

## Plastics Interlaboratory Testing Program

### Web Summary Report #89, 1st Qtr 2014

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## About CTS and the Plastics Interlaboratory Program

Founded in 1971, Collaborative Testing Services, Inc. (CTS) is a privately-owned company that specializes in interlaboratory tests for a wide variety of industries, including rubber, plastics, fasteners and metals, containerboard, paper, color and wine, as well as proficiency tests for forensic laboratories. All of the tests are designed to assist organizations in achieving and maintaining quality control objectives. Labs from the U.S., as well as more than 80 countries currently participate in CTS programs.

Collaborative Testing Services initiated the Collaborative Reference Program for PLASTICS in 1992 at the request of industry, ASTM committee D-20 members, and accrediting bodies. Additional test methods are always under review and are incorporated into the program when possible.

The program allows laboratories to compare periodically the level and uniformity of their testing with that of other participating laboratories. It also provides a realistic assessment of the state of plastics testing proficiency.

For each test there is a summary of the statistics for the analysis and a graphical representation of the data. Also shown are notes concerning specific laboratory results, as well as significant findings related to instrument types or other testing variations. Refer to the KEY FOR SUMMARY REPORT for an explanation of terms and guidelines for interpreting the results.

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## Key for Web Summary Report (Page 1 of 2)

|                                       |   |
|---------------------------------------|---|
| <b>WebCode</b>                        | Assigned laboratory identification number (temporary) used to ensure lab confidentiality while permitting a lab to locate its data in the Plastics Web Summary Report published on the CTS web site. The WebCode for each analysis can be found in the Performance Analysis Report mailed to each participant.  |
| <b>Lab Mean</b>                       | The average of the test results obtained by the participant.  |
| <b>Grand Mean</b>                     | The average of the LAB MEANS for all included participants. Laboratories flagged with an X or an M (see DATA FLAG column) are excluded from the GRAND MEAN.   |
| <b>Difference from Grand Mean</b>     | The difference of the LAB MEAN from the GRAND MEAN.   |
| <b>Between-Lab Standard Deviation</b> | An indication of the precision of measurement between the laboratories. The greater the spread of the LAB MEANS about the GRAND MEAN, the larger the BETWEEN-LAB STANDARD DEVIATION (and vice versa).   |
| <b>Comparative Performance Value</b>  | An indication of how well a laboratory's results agree with the other participants. The CPV is a ratio indicating the number of standard deviations from the GRAND MEAN. The closer a laboratory's COMPARATIVE PERFORMANCE VALUE is to zero, the more consistent its results are with the other participants' data (and vice versa). The critical value for each CPV will vary depending on the number of labs participating in a test. |
| <b>Inst Code</b>                      | A code indicating the manufacturer of the instrument used to perform the test (see separate INSTRUMENT CODE LIST for each test section) if instruments are tracked.   |
| <b>Data Flag</b>                      | DATA FLAGS are assigned based on the simultaneous analysis of both samples tested. Refer to the following chart for an explanation of each symbol:  |

| <u>DATA FLAG</u> | <u>STATISTICALLY INCLUDED/EXCLUDED</u> | <u>ACTION REQUIRED</u>   |
|------------------|--|--|
| *                | INCLUDED                               | <b>CAUTION</b> - review testing procedure and monitor future results. Results fall outside 95% ellipse but within a 99% ellipse that is calculated but not drawn.  |
| X                | EXCLUDED                               | <b>STOP</b> - immediate review of data and/or testing procedure is required. Results fall outside the 99% ellipse. See specific notes following each table for more information on why the data is excluded. |
| M                | EXCLUDED                               | <b>PROCEED</b> - lab was unable to report data for at least one sample.  |

**Graph** - For each laboratory, the LAB MEAN for the first sample (x-axis) is plotted against the LAB MEAN for the second sample (y-axis) with each point representing a laboratory. The horizontal and vertical cross-hairs are the GRAND MEANS for each sample. When 20 or more laboratories are in the statistics, an ellipse is also drawn so that 95% of the time a randomly selected laboratory will be included inside the ellipse. Plotted data flags are explained above.

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### Common Problems Highlighted in Footnotes

1. **Extreme data** - The laboratory's results for one or both samples are so inconsistent with those of the other participants that the lab mean(s) fall outside the plot. The participant is advised to immediately review his data and/or testing procedure.
2. **Systematic bias** - The laboratory's results are either consistently high or low for both samples when compared to the other participants (the plotted point falls near the top or bottom of the ellipse). This indicates that the participant is performing the test with a constant bias. Causes of systematic errors include improper calibration, the particular make/model of equipment or a modification to the testing procedure.
3. **Inconsistency in testing between samples/sample sets** - The laboratory's results indicate that there are differences in the way the two samples tested (the plotted point falls to the side of the ellipse). This type of error may be attributed to the analyst deviating from the procedure when testing one of the samples or a material interaction occurrence with the instrument or room conditions. The inconsistency is reflected in the CPVs for the two samples, such as a +1.5 CPV for sample A and a -2.2 CPV for sample B. CTS also will specify if the laboratory's data for one sample are high/low compared to the other participants. If this inconsistency is slight, the lab's plotted point will be an \* that falls on the edge of the ellipse.
4. **Inconsistency in testing within a sample** - The laboratory's within-lab standard deviation for a specified sample is high when compared to the other participants, often causing the lab's plotted point to fall outside of the ellipse.

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Labs flagged with an \* are not typically included in the footnotes of a data table. These labs may locate their position in the control ellipse and use the definitions above to help identify the type of testing error. An \* should serve as a caution flag, a "yellow light", to a lab. If this error is repeated in future rounds, a lab may need to stop and review its testing procedures. The initial data flag is not cause for alarm. Interlaboratory tests conducted at regular intervals permit a lab to recognize trends in testing.

## Results Summary for Web Summary Report #89

### Plastics Interlaboratory Testing Program

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#### Analysis 704 - Tensile Stress at Yield

|               |            |          |     |           |
|---------------|------------|----------|-----|-----------|
| Material: ABS | Sample F17 | 7,220.51 | psi | 2.44% COV |
|               | Sample F18 | 7,211.14 | psi | 2.37% COV |

#### Analysis 705 - Tensile Stress at Break

|               |            |          |     |           |
|---------------|------------|----------|-----|-----------|
| Material: ABS | Sample F17 | 5,185.11 | psi | 4.39% COV |
|               | Sample F18 | 5,191.42 | psi | 4.37% COV |

#### Analysis 706 - Percent Elongation at Yield

|               |            |        |         |           |
|---------------|------------|--------|---------|-----------|
| Material: ABS | Sample F17 | 2.8041 | Percent | 3.74% COV |
|               | Sample F18 | 2.7884 | Percent | 3.26% COV |

#### Analysis 708 - Modulus of Elasticity

|               |            |        |     |           |
|---------------|------------|--------|-----|-----------|
| Material: ABS | Sample F17 | 352.02 | ksi | 4.67% COV |
|               | Sample F18 | 351.99 | ksi | 4.46% COV |

#### Analysis 730 - Tensile Stress at Yield, ISO Method

|                  |            |        |     |           |
|------------------|------------|--------|-----|-----------|
| Material: ABS/PC | Sample C17 | 65.010 | MPa | 2.07% COV |
|                  | Sample C18 | 64.506 | MPa | 1.80% COV |

#### Analysis 731 - Tensile Stress at Break, ISO Method

|                  |            |        |     |           |
|------------------|------------|--------|-----|-----------|
| Material: ABS/PC | Sample C17 | 47.619 | MPa | 2.80% COV |
|                  | Sample C18 | 47.544 | MPa | 3.05% COV |

#### Analysis 732 - Strain at Yield, ISO Method

|                  |            |        |         |           |
|------------------|------------|--------|---------|-----------|
| Material: ABS/PC | Sample C17 | 3.6299 | Percent | 2.95% COV |
|                  | Sample C18 | 3.5644 | Percent | 3.11% COV |

#### Analysis 734 - Modulus of Elasticity, ISO Method

|                  |            |          |     |           |
|------------------|------------|----------|-----|-----------|
| Material: ABS/PC | Sample C17 | 2,862.62 | MPa | 5.04% COV |
|                  | Sample C18 | 2,791.98 | MPa | 5.09% COV |

#### Analysis 720 - Flexural Modulus

|                  |            |        |     |           |
|------------------|------------|--------|-----|-----------|
| Material: ABS/PC | Sample J17 | 420.27 | ksi | 3.82% COV |
|                  | Sample J18 | 420.71 | ksi | 3.72% COV |

#### Analysis 721 - Flexural Stress at 5% Strain

|                  |            |           |     |           |
|------------------|------------|-----------|-----|-----------|
| Material: ABS/PC | Sample J17 | 14,699.13 | psi | 3.52% COV |
|                  | Sample J18 | 14,733.76 | psi | 3.56% COV |

#### Analysis 722 - Flexural Stress at Yield

|                  |            |           |     |           |
|------------------|------------|-----------|-----|-----------|
| Material: ABS/PC | Sample J17 | 14,671.97 | psi | 3.08% COV |
|                  | Sample J18 | 14,707.25 | psi | 3.12% COV |

#### Analysis 736 - Flexural Modulus

|                  |            |          |     |           |
|------------------|------------|----------|-----|-----------|
| Material: ABS/PC | Sample K17 | 2,845.87 | MPa | 3.86% COV |
|                  | Sample K18 | 2,817.16 | MPa | 3.34% COV |

#### Analysis 737 - Flexural Stress at 3.5% Strain

|                  |            |        |     |           |
|------------------|------------|--------|-----|-----------|
| Material: ABS/PC | Sample K17 | 91.168 | MPa | 3.00% COV |
|                  | Sample K18 | 89.395 | MPa | 2.24% COV |

# Results Summary for Web Summary Report #89

## Plastics Interlaboratory Testing Program

### Analysis 738 - Flexural Stress at Yield

|                  |            |        |     |           |
|------------------|------------|--------|-----|-----------|
| Material: ABS/PC | Sample K17 | 99.648 | MPa | 2.01% COV |
|                  | Sample K18 | 97.638 | MPa | 1.59% COV |

### Analysis 790 - Notched Izod Impact

|                |            |        |           |           |
|----------------|------------|--------|-----------|-----------|
| Material: HIPS | Sample S17 | 2.9075 | ft.lbf/in | 6.33% COV |
|                | Sample S18 | 2.9048 | ft.lbf/in | 6.31% COV |

### Analysis 792 - Notched Charpy Impact

|                  |            |        |                   |           |
|------------------|------------|--------|-------------------|-----------|
| Material: ABS/PC | Sample M17 | 22.795 | kJ/m <sup>2</sup> | 15.0% COV |
|                  | Sample M18 | 23.646 | kJ/m <sup>2</sup> | 15.9% COV |

### Analysis 710 - Deflection Temp. Under Flexural Load (1.82 MPa)

|                  |            |        |           |           |
|------------------|------------|--------|-----------|-----------|
| Material: ABS/PC | Sample E17 | 78.484 | Degrees C | 1.60% COV |
|                  | Sample E18 | 78.593 | Degrees C | 1.54% COV |

### Analysis 711 - Deflection Temp. Under Flexural Load (0.455 MPa)

|              |            |        |           |           |
|--------------|------------|--------|-----------|-----------|
| Material: PP | Sample G17 | 67.552 | Degrees C | 1.77% COV |
|              | Sample G18 | 66.990 | Degrees C | 2.03% COV |

### Analysis 712 - Temperature of Deflection (1.80 MPa)

|                |            |        |           |           |
|----------------|------------|--------|-----------|-----------|
| Material: HIPS | Sample N17 | 83.649 | Degrees C | 1.42% COV |
|                | Sample N18 | 83.563 | Degrees C | 1.43% COV |

### Analysis 715 - Vicat Temperature (Rate A)

|                  |            |        |           |            |
|------------------|------------|--------|-----------|------------|
| Material: ABS/PC | Sample H17 | 100.33 | Degrees C | 0.855% COV |
|                  | Sample H18 | 100.03 | Degrees C | 0.901% COV |

### Analysis 716 - Vicat Temperature (Rate B)

|                  |            |        |           |            |
|------------------|------------|--------|-----------|------------|
| Material: ABS/PC | Sample R17 | 102.46 | Degrees C | 0.741% COV |
|                  | Sample R18 | 102.13 | Degrees C | 0.743% COV |

### Analysis 750 - Flow Rate (190C or 230C/2.16 kg)

|                |            |        |               |           |
|----------------|------------|--------|---------------|-----------|
| Material: HDPE | Sample X17 | 6.2695 | grams/10 mins | 3.46% COV |
|                | Sample X18 | 6.2783 | grams/10 mins | 3.22% COV |

### Analysis 718 - Specific Gravity

|                  |            |        |               |            |
|------------------|------------|--------|---------------|------------|
| Material: ABS/PC | Sample T17 | 1.1443 | sp gr 23/23 C | 0.182% COV |
|                  | Sample T18 | 1.1444 | sp gr 23/23 C | 0.155% COV |

### Analysis 757 - Ash Content

|               |            |        |         |            |
|---------------|------------|--------|---------|------------|
| Material: PBT | Sample L17 | 14.903 | Percent | 0.900% COV |
|               | Sample L18 | 14.879 | Percent | 1.06% COV  |

### Analysis 770 - Tensile Stress at Yield, Films

|                |            |          |     |           |
|----------------|------------|----------|-----|-----------|
| Material: LDPE | Sample B17 | 1,598.65 | psi | 9.22% COV |
|                | Sample B18 | 1,584.51 | psi | 9.14% COV |

### Analysis 771 - Tensile Stress at Break, Films

|                |            |          |     |           |
|----------------|------------|----------|-----|-----------|
| Material: LDPE | Sample B17 | 3,050.26 | psi | 9.50% COV |
|                | Sample B18 | 3,017.71 | psi | 10.4% COV |

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### Analysis 772 - Elongation at Yield, Films

|                |            |        |         |           |
|----------------|------------|--------|---------|-----------|
| Material: LDPE | Sample B17 | 39.811 | Percent | 82.6% COV |
|                | Sample B18 | 40.803 | Percent | 81.7% COV |

### Analysis 773 - Elongation at Break, Films

|                |            |        |         |           |
|----------------|------------|--------|---------|-----------|
| Material: LDPE | Sample B17 | 770.88 | Percent | 18.3% COV |
|                | Sample B18 | 762.32 | Percent | 18.0% COV |

### Analysis 774 - Thickness of Film Specimens

|                |            |        |      |           |
|----------------|------------|--------|------|-----------|
| Material: LDPE | Sample B17 | 4.0568 | mils | 1.53% COV |
|                | Sample B18 | 3.9532 | mils | 2.08% COV |

### Analysis 775 - Secant Modulus at 1% Strain

|                |            |           |     |           |
|----------------|------------|-----------|-----|-----------|
| Material: LDPE | Sample B17 | 30,218.45 | psi | 11.3% COV |
|                | Sample B18 | 29,820.42 | psi | 11.2% COV |

### Analysis 776 - Secant Modulus at 2% Strain

|                |            |           |     |           |
|----------------|------------|-----------|-----|-----------|
| Material: LDPE | Sample B17 | 25,881.46 | psi | 8.14% COV |
|                | Sample B18 | 25,565.37 | psi | 7.87% COV |

### Analysis 780 - Static Friction

|                |            |         |     |           |
|----------------|------------|---------|-----|-----------|
| Material: LDPE | Sample P17 | 0.18188 | COF | 22.3% COV |
|                | Sample P18 | 0.16990 | COF | 21.3% COV |

### Analysis 781 - Kinetic Friction

|                |            |         |     |           |
|----------------|------------|---------|-----|-----------|
| Material: LDPE | Sample P17 | 0.14274 | COF | 22.4% COV |
|                | Sample P18 | 0.13425 | COF | 27.3% COV |

### Analysis 782 - Tear Resistance of Film

|                |            |        |             |           |
|----------------|------------|--------|-------------|-----------|
| Material: LDPE | Sample Q17 | 779.11 | grams-force | 10.2% COV |
|                | Sample Q18 | 775.65 | grams-force | 11.7% COV |

### Analysis 785 - Percent Haze

|                |            |        |         |           |
|----------------|------------|--------|---------|-----------|
| Material: LDPE | Sample D17 | 15.663 | Percent | 4.30% COV |
|                | Sample D18 | 14.975 | Percent | 4.21% COV |

### Analysis 786 - Total Transmittance

|                |            |        |         |           |
|----------------|------------|--------|---------|-----------|
| Material: LDPE | Sample D17 | 92.171 | Percent | 1.30% COV |
|                | Sample D18 | 92.228 | Percent | 1.28% COV |

### Analysis 755 - Moisture Content

|               |            |         |         |           |
|---------------|------------|---------|---------|-----------|
| Material: ABS | Sample Y17 | 0.19689 | Percent | 22.3% COV |
|               | Sample Y18 | 0.18570 | Percent | 22.0% COV |

## Analysis 704

## Tensile Stress at Yield - psi

| WebCode | Data Flag | Sample F17 |                      |        | Sample F18 |                      |        |
|---------|-----------|------------|----------------------|--------|------------|----------------------|--------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV    | Lab Mean   | Diff from Grand Mean | CPV    |
| 2HCHKT  |           | 7,263.0    | 42.5                 | 0.24   | 7,261.1    | 50.0                 | 0.29   |
| 2HNB4X  |           | 7,279.6    | 59.1                 | 0.34   | 7,285.6    | 74.5                 | 0.44   |
| 443ALC  | X         | 6,606.4    | -614.1               | -3.48  | 6,534.8    | -676.3               | -3.96  |
| 4QG7NR  |           | 7,191.0    | -29.5                | -0.17  | 7,164.0    | -47.1                | -0.28  |
| 4TVPNF  |           | 7,434.8    | 214.3                | 1.22   | 7,402.2    | 191.1                | 1.12   |
| 67DFVL  |           | 7,387.7    | 167.2                | 0.95   | 7,336.7    | 125.5                | 0.73   |
| 6UXZVJ  |           | 7,137.1    | -83.4                | -0.47  | 7,080.2    | -130.9               | -0.77  |
| 7MAV9D  |           | 7,197.0    | -23.5                | -0.13  | 7,282.4    | 71.3                 | 0.42   |
| 7MUG44  |           | 7,136.2    | -84.3                | -0.48  | 7,133.8    | -77.3                | -0.45  |
| 7RGX66  |           | 7,210.0    | -10.5                | -0.06  | 7,251.8    | 40.7                 | 0.24   |
| 89QAVY  |           | 7,181.6    | -38.9                | -0.22  | 7,127.4    | -83.7                | -0.49  |
| 8FWK7G  |           | 7,117.2    | -103.3               | -0.59  | 7,027.4    | -183.7               | -1.08  |
| 8MZHU3  |           | 7,365.8    | 145.3                | 0.82   | 7,280.6    | 69.5                 | 0.41   |
| 9VHZEX  |           | 7,334.0    | 113.5                | 0.64   | 7,232.8    | 21.7                 | 0.13   |
| A3AEJD  |           | 7,096.6    | -123.9               | -0.70  | 7,097.8    | -113.3               | -0.66  |
| ANJTKZ  |           | 7,076.5    | -144.1               | -0.82  | 7,148.4    | -62.7                | -0.37  |
| B73ALV  |           | 7,165.6    | -54.9                | -0.31  | 7,160.8    | -50.3                | -0.29  |
| C9YEFV  |           | 7,380.0    | 159.5                | 0.91   | 7,382.6    | 171.5                | 1.00   |
| CHQE4W  | *         | 6,992.4    | -228.1               | -1.29  | 7,164.2    | -46.9                | -0.27  |
| CUQCB6  |           | 7,159.7    | -60.8                | -0.35  | 7,163.5    | -47.7                | -0.28  |
| CY8NFM  |           | 7,228.2    | 7.7                  | 0.04   | 7,274.0    | 62.9                 | 0.37   |
| EC86BR  |           | 6,969.8    | -250.7               | -1.42  | 7,022.8    | -188.3               | -1.10  |
| EPZLMG  |           | 6,894.8    | -325.7               | -1.85  | 6,949.0    | -262.1               | -1.53  |
| EQA4ED  |           | 7,010.4    | -210.1               | -1.19  | 6,955.0    | -256.1               | -1.50  |
| ERUK9M  | X         | 104,971.6  | 97,751.1             | 554.69 | 104,810.6  | 97,599.5             | 571.29 |
| F9ME4T  |           | 7,224.4    | 3.9                  | 0.02   | 7,248.4    | 37.3                 | 0.22   |
| FQ6GP9  |           | 7,261.8    | 41.3                 | 0.23   | 7,227.0    | 15.9                 | 0.09   |
| FTV2MZ  |           | 7,597.4    | 376.9                | 2.14   | 7,606.6    | 395.5                | 2.31   |
| GMP26M  |           | 7,363.0    | 142.5                | 0.81   | 7,365.6    | 154.5                | 0.90   |
| H9CK3V  |           | 7,052.4    | -168.1               | -0.95  | 7,012.6    | -198.5               | -1.16  |
| HA9U2B  | X         | 7,820.8    | 600.3                | 3.41   | 7,816.2    | 605.0                | 3.54   |
| HBANCW  |           | 6,921.0    | -299.5               | -1.70  | 6,939.2    | -271.9               | -1.59  |



## Analysis 704

## Tensile Stress at Yield - psi

| WebCode | Data Flag | Sample F17 |                      |       | Sample F18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| J3CDHC  |           | 7,191.4    | -29.1                | -0.17 | 7,201.0    | -10.1                | -0.06 |
| JHMMYY  |           | 7,320.6    | 100.1                | 0.57  | 7,299.8    | 88.7                 | 0.52  |
| JHQZ7U  |           | 7,354.1    | 133.5                | 0.76  | 7,314.9    | 103.8                | 0.61  |
| JXVXMW  |           | 7,249.4    | 28.9                 | 0.16  | 7,245.0    | 33.9                 | 0.20  |
| KBTQFM  |           | 7,074.1    | -146.4               | -0.83 | 7,006.5    | -204.6               | -1.20 |
| KVW4PK  | *         | 7,611.2    | 390.7                | 2.22  | 7,677.0    | 465.9                | 2.73  |
| L6MCBX  |           | 7,207.8    | -12.7                | -0.07 | 7,200.7    | -10.4                | -0.06 |
| L8KXNC  |           | 7,210.8    | -9.7                 | -0.06 | 7,298.2    | 87.1                 | 0.51  |
| LD9KBQ  |           | 7,287.8    | 67.3                 | 0.38  | 7,230.8    | 19.7                 | 0.12  |
| LT3L4V  |           | 7,382.6    | 162.1                | 0.92  | 7,348.6    | 137.5                | 0.80  |
| MKFELP  |           | 7,344.6    | 124.1                | 0.70  | 7,244.4    | 33.3                 | 0.19  |
| N8LP4P  | X         | 7,719.0    | 498.5                | 2.83  | 7,472.4    | 261.3                | 1.53  |
| NE9ZR2  |           | 7,562.8    | 342.3                | 1.94  | 7,467.4    | 256.3                | 1.50  |
| QF46G8  |           | 7,134.0    | -86.5                | -0.49 | 7,009.6    | -201.5               | -1.18 |
| QR47HT  |           | 7,234.5    | 14.0                 | 0.08  | 7,246.1    | 35.0                 | 0.20  |
| R729FV  |           | 7,230.0    | 9.5                  | 0.05  | 7,217.6    | 6.5                  | 0.04  |
| RVAYD3  | *         | 7,216.4    | -4.1                 | -0.02 | 7,387.4    | 176.3                | 1.03  |
| TR6HLQ  |           | 7,202.6    | -17.9                | -0.10 | 7,172.4    | -38.7                | -0.23 |
| TRDY67  |           | 7,025.1    | -195.4               | -1.11 | 7,088.3    | -122.9               | -0.72 |
| TRUTN6  |           | 6,810.2    | -410.3               | -2.33 | 6,792.0    | -419.1               | -2.45 |
| U8RE48  |           | 7,433.8    | 213.3                | 1.21  | 7,325.4    | 114.3                | 0.67  |
| UAEVXN  |           | 7,398.3    | 177.8                | 1.01  | 7,295.8    | 84.6                 | 0.50  |
| UK42WU  |           | 7,419.4    | 198.9                | 1.13  | 7,391.8    | 180.7                | 1.06  |
| UUCUZB  |           | 7,238.8    | 18.3                 | 0.10  | 7,180.8    | -30.3                | -0.18 |
| VBGJT2  |           | 7,622.0    | 401.5                | 2.28  | 7,594.0    | 382.9                | 2.24  |
| VEKTZ6  |           | 7,290.8    | 70.3                 | 0.40  | 7,302.1    | 91.0                 | 0.53  |
| W33YAA  |           | 7,154.8    | -65.7                | -0.37 | 7,160.9    | -50.3                | -0.29 |
| WWK6H3  |           | 7,250.0    | 29.5                 | 0.17  | 7,264.0    | 52.9                 | 0.31  |
| XF2DHH  | *         | 6,766.8    | -453.7               | -2.57 | 6,746.0    | -465.1               | -2.72 |
| XVG4FK  |           | 7,063.2    | -157.3               | -0.89 | 7,122.6    | -88.5                | -0.52 |
| ZHYHFN  |           | 7,199.4    | -21.1                | -0.12 | 7,175.0    | -36.1                | -0.21 |
| ZKGEDY  |           | 7,170.1    | -50.4                | -0.29 | 7,192.8    | -18.4                | -0.11 |

## Analysis 704

## Tensile Stress at Yield - psi

| WebCode | Data Flag | Sample F17 |                      |       | Sample F18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| ZURJRZ  |           | 7,164.8    | -55.7                | -0.32 | 7,097.0    | -114.1               | -0.67 |

## Summary Statistics

Grand Means

7,220.51 psi

7,211.14 psi

Std Dev Btwn Labs

176.23 psi

170.84 psi

Statistics based on 61 of 65 reporting participants

Sample F17: ABS &amp; Sample F18: ABS

**Comments on assigned Data Flags for Test #704**

443ALC (X) - Data for both samples are low.

ERUK9M (X) - Extremely high data for all samples. It appears that the data were off by a factor of 10.

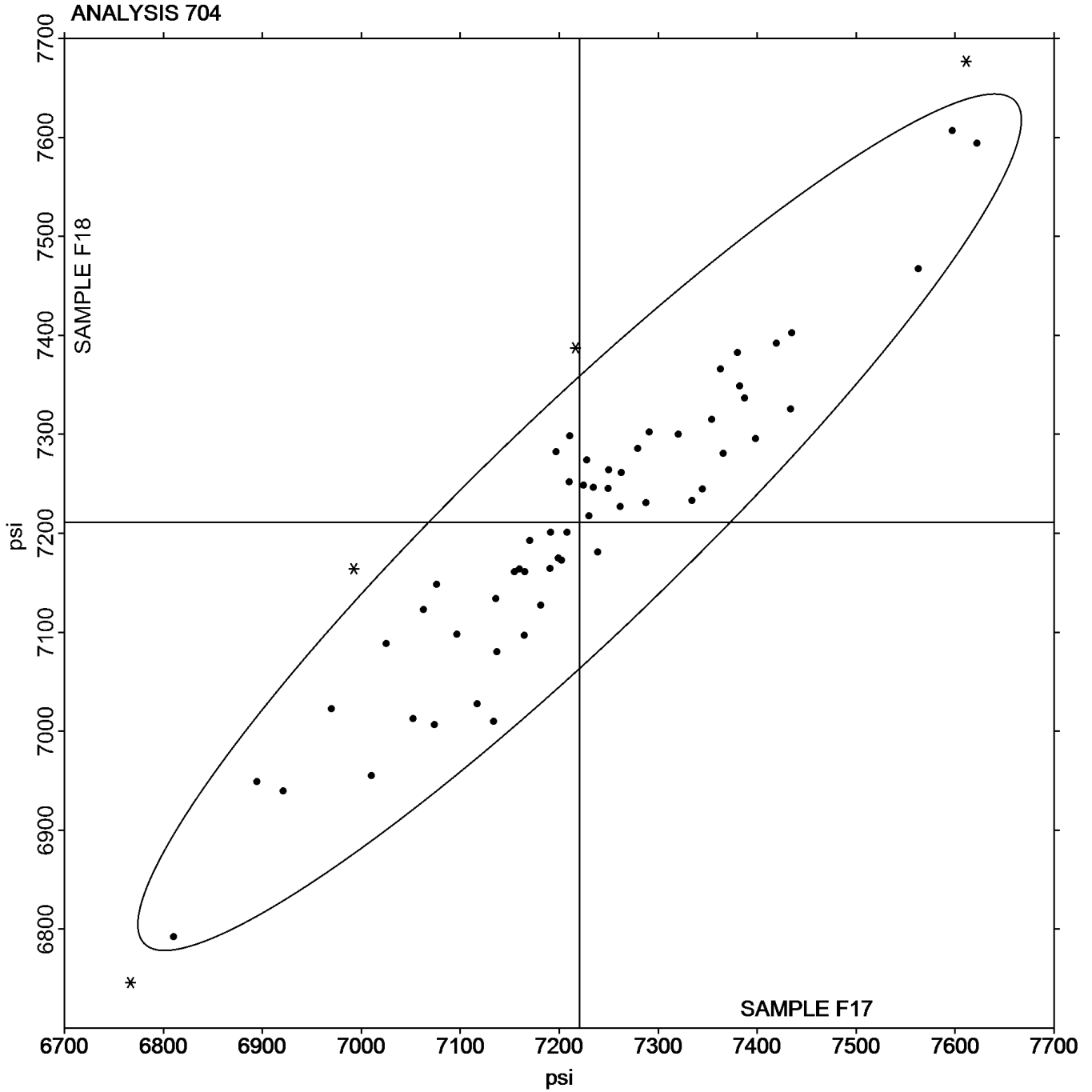
HA9U2B (X) - Data for both samples are high. Possible systematic error.

N8LP4P (X) - Inconsistent in testing between samples, data for Sample F17 are high. Also Inconsistent in testing within both samples.

Analysis 704

Tensile Stress at Yield - psi

Grand Mean Sample F17: 7,220.51 psi    Grand Mean Sample F18: 7,211.14 psi



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

## Analysis 705

## Tensile Stress at Break - psi

| WebCode | Data Flag | Sample F17 |                      |       | Sample F18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 226XZ7  |           | 5,540.2    | 355.1                | 1.56  | 5,587.8    | 396.4                | 1.75  |
| 2CWALZ  |           | 4,989.1    | -196.1               | -0.86 | 5,016.3    | -175.1               | -0.77 |
| 2RLRFF  |           | 4,694.0    | -491.1               | -2.16 | 4,813.6    | -377.8               | -1.66 |
| 3KLGfQ  |           | 5,047.2    | -137.9               | -0.61 | 5,042.4    | -149.0               | -0.66 |
| 4JKX8D  |           | 5,667.4    | 482.3                | 2.12  | 5,545.2    | 353.8                | 1.56  |
| 4YAKCG  |           | 5,192.2    | 7.1                  | 0.03  | 5,293.4    | 102.0                | 0.45  |
| 4Z8UJ7  |           | 4,995.2    | -189.9               | -0.83 | 5,045.3    | -146.1               | -0.64 |
| 6C4MQV  |           | 5,468.8    | 283.7                | 1.25  | 5,436.6    | 245.2                | 1.08  |
| 793TM3  |           | 5,356.2    | 171.1                | 0.75  | 5,329.6    | 138.2                | 0.61  |
| 7BME2T  |           | 5,149.2    | -35.9                | -0.16 | 5,052.9    | -138.5               | -0.61 |
| 8FPHWA  |           | 5,248.2    | 63.1                 | 0.28  | 5,100.8    | -90.6                | -0.40 |
| 8QWKRH  |           | 5,137.8    | -47.3                | -0.21 | 5,109.6    | -81.9                | -0.36 |
| 8T3XHV  |           | 5,378.8    | 193.7                | 0.85  | 5,297.8    | 106.4                | 0.47  |
| 8YCC7J  |           | 5,480.0    | 294.9                | 1.30  | 5,611.8    | 420.4                | 1.85  |
| 9A48U4  |           | 5,173.0    | -12.1                | -0.05 | 5,087.4    | -104.0               | -0.46 |
| 9RRA3P  | X         | 6,383.8    | 1,198.7              | 5.27  | 5,313.6    | 122.2                | 0.54  |
| 9Z3UW3  |           | 4,708.0    | -477.1               | -2.10 | 4,916.4    | -275.0               | -1.21 |
| AJ99F4  |           | 5,223.6    | 38.5                 | 0.17  | 5,221.0    | 29.6                 | 0.13  |
| ALZP3V  |           | 5,350.2    | 165.1                | 0.73  | 5,322.0    | 130.6                | 0.57  |
| BKWZ6F  |           | 4,910.2    | -274.9               | -1.21 | 4,722.6    | -468.8               | -2.06 |
| BWY6LR  |           | 4,938.2    | -246.9               | -1.09 | 5,010.0    | -181.4               | -0.80 |
| C4TYCM  |           | 5,290.0    | 104.9                | 0.46  | 5,214.0    | 22.6                 | 0.10  |
| C769PW  |           | 5,354.3    | 169.1                | 0.74  | 5,312.8    | 121.4                | 0.53  |
| CGKLP9  | X         | 4,643.6    | -541.5               | -2.38 | 5,041.2    | -150.2               | -0.66 |
| CQRFQZ  |           | 5,148.8    | -36.3                | -0.16 | 5,304.2    | 112.8                | 0.50  |
| CWKfJG  | X         | 7,215.1    | 2,030.0              | 8.92  | 6,983.0    | 1,791.6              | 7.89  |
| DJQX4T  |           | 5,117.4    | -67.7                | -0.30 | 5,002.8    | -188.6               | -0.83 |
| DKK3MN  |           | 4,865.0    | -320.1               | -1.41 | 4,855.8    | -335.6               | -1.48 |
| DWV2KF  |           | 5,546.3    | 361.2                | 1.59  | 5,586.0    | 394.6                | 1.74  |
| DXUE3B  |           | 5,151.4    | -33.7                | -0.15 | 5,144.4    | -47.0                | -0.21 |
| E63WMA  | *         | 5,471.2    | 286.1                | 1.26  | 5,727.8    | 536.4                | 2.36  |
| F2RU4B  |           | 4,935.6    | -249.5               | -1.10 | 4,922.6    | -268.8               | -1.18 |

## Plastics Interlaboratory Testing Program

## Analysis 705

## Tensile Stress at Break - psi

| WebCode | Data Flag | Sample F17 |                      |       | Sample F18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| FLWZFY  |           | 5,236.4    | 51.3                 | 0.23  | 5,193.0    | 1.6                  | 0.01  |
| GVRN9X  |           | 4,947.6    | -237.5               | -1.04 | 5,058.4    | -133.0               | -0.59 |
| HFELFH  |           | 5,092.5    | -92.6                | -0.41 | 5,109.6    | -81.8                | -0.36 |
| JLE2BJ  |           | 5,488.3    | 303.2                | 1.33  | 5,296.8    | 105.4                | 0.46  |
| JZEA9F  | X         | 6,356.1    | 1,171.0              | 5.15  | 6,188.4    | 997.0                | 4.39  |
| L2GVXA  |           | 5,222.2    | 37.1                 | 0.16  | 5,166.1    | -25.3                | -0.11 |
| L6Z4TX  |           | 5,147.1    | -38.0                | -0.17 | 5,202.0    | 10.6                 | 0.05  |
| MUUNEC  | *         | 5,031.4    | -153.7               | -0.68 | 5,324.4    | 133.0                | 0.59  |
| P8Z6QZ  |           | 5,226.0    | 40.9                 | 0.18  | 5,317.0    | 125.6                | 0.55  |
| PAJDQZ  |           | 5,143.0    | -42.1                | -0.18 | 5,086.1    | -105.3               | -0.46 |
| PTGD7V  |           | 4,919.7    | -265.4               | -1.17 | 5,082.2    | -109.3               | -0.48 |
| QNRL2C  |           | 5,316.9    | 131.8                | 0.58  | 5,296.3    | 104.9                | 0.46  |
| TRBVBJ  |           | 5,062.0    | -123.1               | -0.54 | 5,005.4    | -186.0               | -0.82 |
| UUJ6HE  |           | 4,991.2    | -193.9               | -0.85 | 5,002.6    | -188.8               | -0.83 |
| UWDTBN  |           | 4,878.6    | -306.5               | -1.35 | 4,835.8    | -355.6               | -1.57 |
| V2YCDP  |           | 5,289.0    | 103.8                | 0.46  | 5,205.1    | 13.7                 | 0.06  |
| VFV6UP  | *         | 5,858.4    | 673.3                | 2.96  | 5,778.8    | 587.4                | 2.59  |
| VGAX2P  |           | 5,213.3    | 28.2                 | 0.12  | 5,125.7    | -65.7                | -0.29 |
| VZ4BCV  | X         | 3,445.8    | -1,739.3             | -7.65 | 3,444.4    | -1,747.0             | -7.69 |
| WCC9WE  |           | 5,366.4    | 181.3                | 0.80  | 5,321.4    | 130.0                | 0.57  |
| WUHMEL  |           | 5,280.8    | 95.7                 | 0.42  | 5,242.6    | 51.2                 | 0.23  |
| WUYNLZ  |           | 5,170.0    | -15.1                | -0.07 | 5,384.0    | 192.6                | 0.85  |
| WVF7XB  |           | 5,009.4    | -175.8               | -0.77 | 5,066.5    | -124.9               | -0.55 |
| WXRW8B  |           | 5,060.7    | -124.4               | -0.55 | 5,136.0    | -55.4                | -0.24 |
| X2M9EA  |           | 5,005.6    | -179.5               | -0.79 | 4,794.2    | -397.2               | -1.75 |
| Y8NJE3  |           | 5,099.6    | -85.5                | -0.38 | 5,246.2    | 54.8                 | 0.24  |
| YCKFWC  |           | 5,300.9    | 115.8                | 0.51  | 5,376.3    | 184.9                | 0.81  |
| ZFKHAY  |           | 5,297.0    | 111.9                | 0.49  | 5,242.6    | 51.2                 | 0.23  |

Analysis 705  
Tensile Stress at Break - psi

## Summary Statistics

Grand Means

5,185.11 psi

5,191.42 psi

Std Dev Btwn Labs

227.50 psi

227.10 psi

Statistics based on 55 of 60 reporting participants

Sample F17: ABS &amp; Sample F18: ABS

**Comments on assigned Data Flags for Test #705**

9RRA3P (X) - Inconsistent in testing between samples, data for Sample F17 are high. Also Inconsistent in testing within Sample F17.

CGKLP9 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F17.

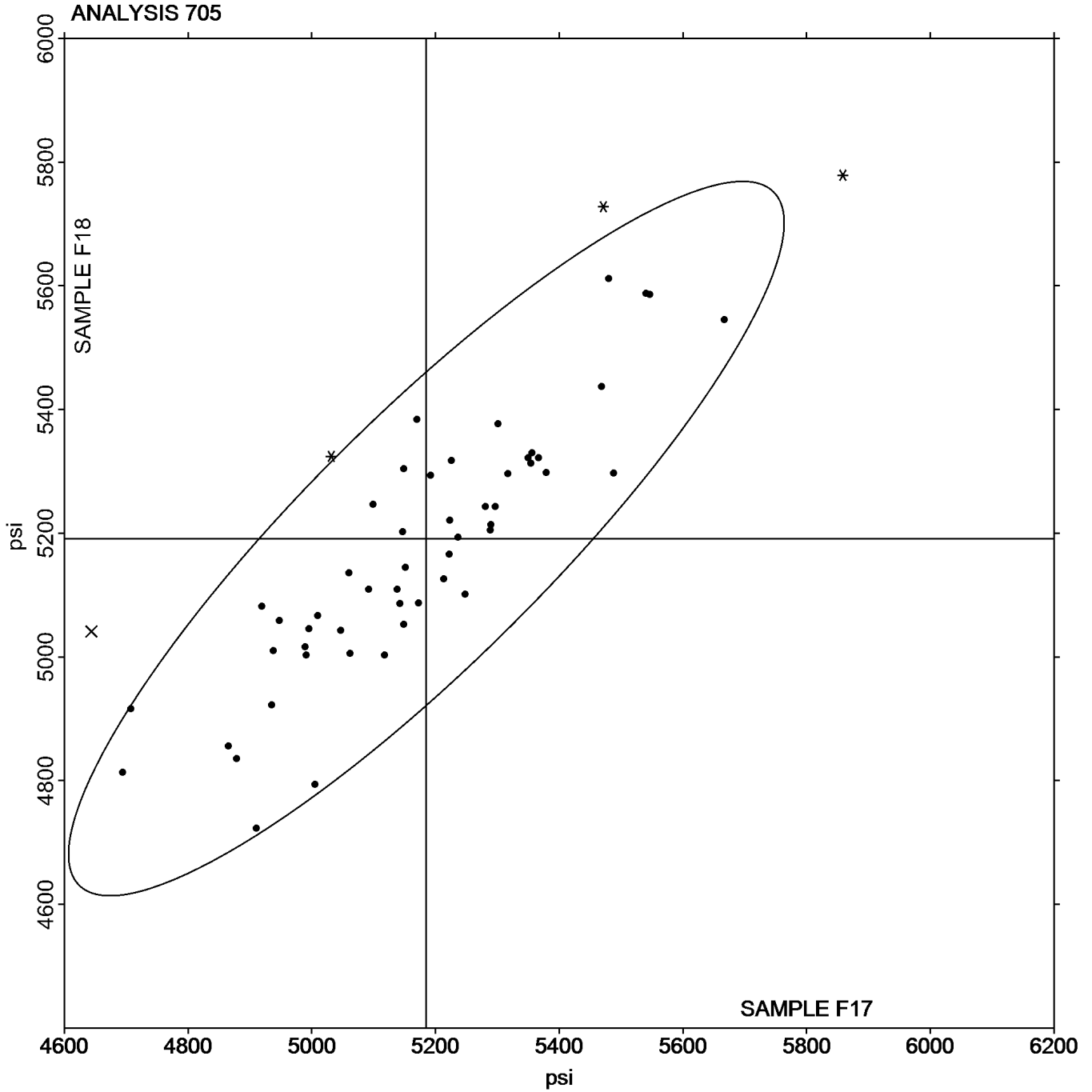
CWKFJG (X) - Data for both samples are high. Also Inconsistent in testing within both samples.

JZEA9F (X) - Data for both samples are high.

VZ4BCV (X) - Data for both samples are low.

Analysis 705  
Tensile Stress at Break - psi

Grand Mean Sample F17: 5,185.11 psi    Grand Mean Sample F18: 5,191.42 psi



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

## Plastics Interlaboratory Testing Program

## Analysis 706

## Percent Elongation at Yield - Percent

| WebCode | Data Flag | Sample F17 |                      |       | Sample F18 |                      |        |
|---------|-----------|------------|----------------------|-------|------------|----------------------|--------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV    |
| 28DURB  |           | 2.918      | 0.114                | 1.09  | 2.932      | 0.144                | 1.58   |
| 2D4B66  |           | 2.950      | 0.146                | 1.39  | 2.888      | 0.100                | 1.10   |
| 2PKRFH  |           | 2.654      | -0.150               | -1.43 | 2.674      | -0.114               | -1.26  |
| 32Z6BX  |           | 2.884      | 0.080                | 0.76  | 2.870      | 0.082                | 0.90   |
| 3DY7CJ  |           | 2.688      | -0.116               | -1.11 | 2.686      | -0.102               | -1.13  |
| 3H2VFW  |           | 2.738      | -0.066               | -0.63 | 2.756      | -0.032               | -0.36  |
| 6C84WG  | X         | 4.000      | 1.196                | 11.42 | 3.200      | 0.412                | 4.53   |
| 766AK6  |           | 2.714      | -0.090               | -0.86 | 2.676      | -0.112               | -1.24  |
| 79J7NL  |           | 2.674      | -0.130               | -1.24 | 2.678      | -0.110               | -1.21  |
| 7F8JDF  |           | 2.800      | -0.004               | -0.04 | 2.800      | 0.012                | 0.13   |
| 7HG2HJ  |           | 2.800      | -0.004               | -0.04 | 2.797      | 0.008                | 0.09   |
| 8UACTJ  |           | 2.820      | 0.016                | 0.15  | 2.802      | 0.014                | 0.15   |
| 8XFNU7  | X         | 2.602      | -0.202               | -1.93 | 2.838      | 0.050                | 0.55   |
| 9RLD3R  |           | 2.662      | -0.142               | -1.36 | 2.680      | -0.108               | -1.19  |
| 9V42JR  |           | 2.846      | 0.042                | 0.40  | 2.824      | 0.036                | 0.39   |
| AHF6BT  |           | 2.820      | 0.016                | 0.15  | 2.784      | -0.004               | -0.05  |
| ANDKBG  |           | 2.836      | 0.032                | 0.30  | 2.826      | 0.038                | 0.41   |
| AVUQPA  |           | 2.708      | -0.096               | -0.92 | 2.688      | -0.100               | -1.10  |
| B82YTX  | X         | 2.188      | -0.616               | -5.88 | 2.268      | -0.520               | -5.73  |
| BQJBC2  |           | 2.858      | 0.054                | 0.51  | 2.854      | 0.066                | 0.72   |
| C8B8MW  |           | 2.840      | 0.036                | 0.34  | 2.830      | 0.042                | 0.46   |
| DDW4MQ  |           | 2.778      | -0.026               | -0.25 | 2.804      | 0.016                | 0.17   |
| DFTBVW  |           | 2.722      | -0.082               | -0.78 | 2.678      | -0.110               | -1.21  |
| DNGH2G  |           | 2.854      | 0.050                | 0.48  | 2.846      | 0.058                | 0.63   |
| DUUPQ6  |           | 2.926      | 0.122                | 1.16  | 2.878      | 0.090                | 0.99   |
| DZZNC9  | X         | 5.940      | 3.136                | 29.93 | 6.192      | 3.404                | 37.45  |
| EDHEKF  |           | 2.757      | -0.047               | -0.45 | 2.743      | -0.045               | -0.50  |
| GA2A76  |           | 2.832      | 0.028                | 0.27  | 2.842      | 0.054                | 0.59   |
| HFDWYR  |           | 2.778      | -0.026               | -0.25 | 2.744      | -0.044               | -0.49  |
| JA8HV3  |           | 2.858      | 0.054                | 0.51  | 2.820      | 0.032                | 0.35   |
| JCPNAW  |           | 2.846      | 0.042                | 0.40  | 2.856      | 0.068                | 0.74   |
| KPBJZN  | X         | 12.170     | 9.366                | 89.40 | 12.416     | 9.628                | 105.94 |



Analysis 706  
Percent Elongation at Yield - Percent

| WebCode | Data Flag | Sample F17 |                      |       | Sample F18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| KVHFUZ  |           | 2.780      | -0.024               | -0.23 | 2.782      | -0.006               | -0.07 |
| L3CZBH  | X         | 3.322      | 0.518                | 4.94  | 3.442      | 0.654                | 7.19  |
| LE3TGC  | *         | 2.500      | -0.304               | -2.90 | 2.540      | -0.248               | -2.73 |
| MKD6KF  |           | 2.794      | -0.010               | -0.10 | 2.812      | 0.024                | 0.26  |
| N38QCB  |           | 2.795      | -0.009               | -0.09 | 2.791      | 0.002                | 0.02  |
| NEX3TP  | X         | 5.362      | 2.558                | 24.42 | 5.302      | 2.514                | 27.66 |
| NR6GRU  |           | 2.732      | -0.072               | -0.69 | 2.736      | -0.052               | -0.58 |
| P2AVDC  |           | 2.680      | -0.124               | -1.19 | 2.721      | -0.068               | -0.74 |
| PK3NAC  | *         | 2.910      | 0.106                | 1.01  | 2.948      | 0.160                | 1.76  |
| Q8AMXA  |           | 2.974      | 0.170                | 1.62  | 2.872      | 0.084                | 0.92  |
| QTW3NH  |           | 2.866      | 0.062                | 0.59  | 2.788      | 0.000                | 0.00  |
| QWQN6V  | X         | 7.340      | 4.536                | 43.30 | 7.306      | 4.518                | 49.71 |
| T464A2  |           | 2.694      | -0.110               | -1.05 | 2.714      | -0.074               | -0.82 |
| TMUHAP  | X         | 2.864      | 0.060                | 0.57  | 2.954      | 0.166                | 1.82  |
| UZNQ7X  |           | 2.948      | 0.144                | 1.37  | 2.884      | 0.096                | 1.05  |
| VBGJT2  |           | 2.692      | -0.112               | -1.07 | 2.692      | -0.096               | -1.06 |
| WBH4JD  | *         | 3.132      | 0.328                | 3.13  | 3.060      | 0.272                | 2.99  |
| WFHR74  |           | 2.872      | 0.068                | 0.65  | 2.866      | 0.078                | 0.85  |
| WRVENT  |           | 2.790      | -0.014               | -0.13 | 2.796      | 0.008                | 0.08  |
| XLXCJV  |           | 2.772      | -0.032               | -0.31 | 2.692      | -0.096               | -1.06 |
| XY9BNF  |           | 2.776      | -0.028               | -0.27 | 2.786      | -0.002               | -0.03 |
| YT2XL4  |           | 2.844      | 0.040                | 0.38  | 2.800      | 0.012                | 0.13  |
| ZNG4PC  |           | 2.780      | -0.024               | -0.23 | 2.692      | -0.096               | -1.06 |
| ZXKTAG  |           | 2.900      | 0.096                | 0.92  | 2.826      | 0.038                | 0.41  |

Summary Statistics

Grand Means

2.8041 Percent

2.7884 Percent

Std Dev Btwn Labs

0.1048 Percent

0.0909 Percent

Statistics based on 47 of 56 reporting participants

Sample F17: ABS & Sample F18: ABS

## Analysis 706

Percent Elongation at Yield - Percent

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**Comments on assigned Data Flags for Test #706**

6C84WG (X) - Data for both samples are high. Also Inconsistent in testing within Sample F18.

8XFNU7 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F18.

B82YTX (X) - Data for both samples are low. Also Inconsistent in testing within Sample F17.

DZZNC9 (X) - Data for both samples are high. Also Inconsistent in testing within Sample F18.

KPBJZN (X) - Data for both samples are high. Also Inconsistent in testing within both samples.

L3CZBH (X) - Data for both samples are high. Also Inconsistent in testing within both samples.

NEX3TP (X) - Data for both samples are high. Also Inconsistent in testing within both samples.

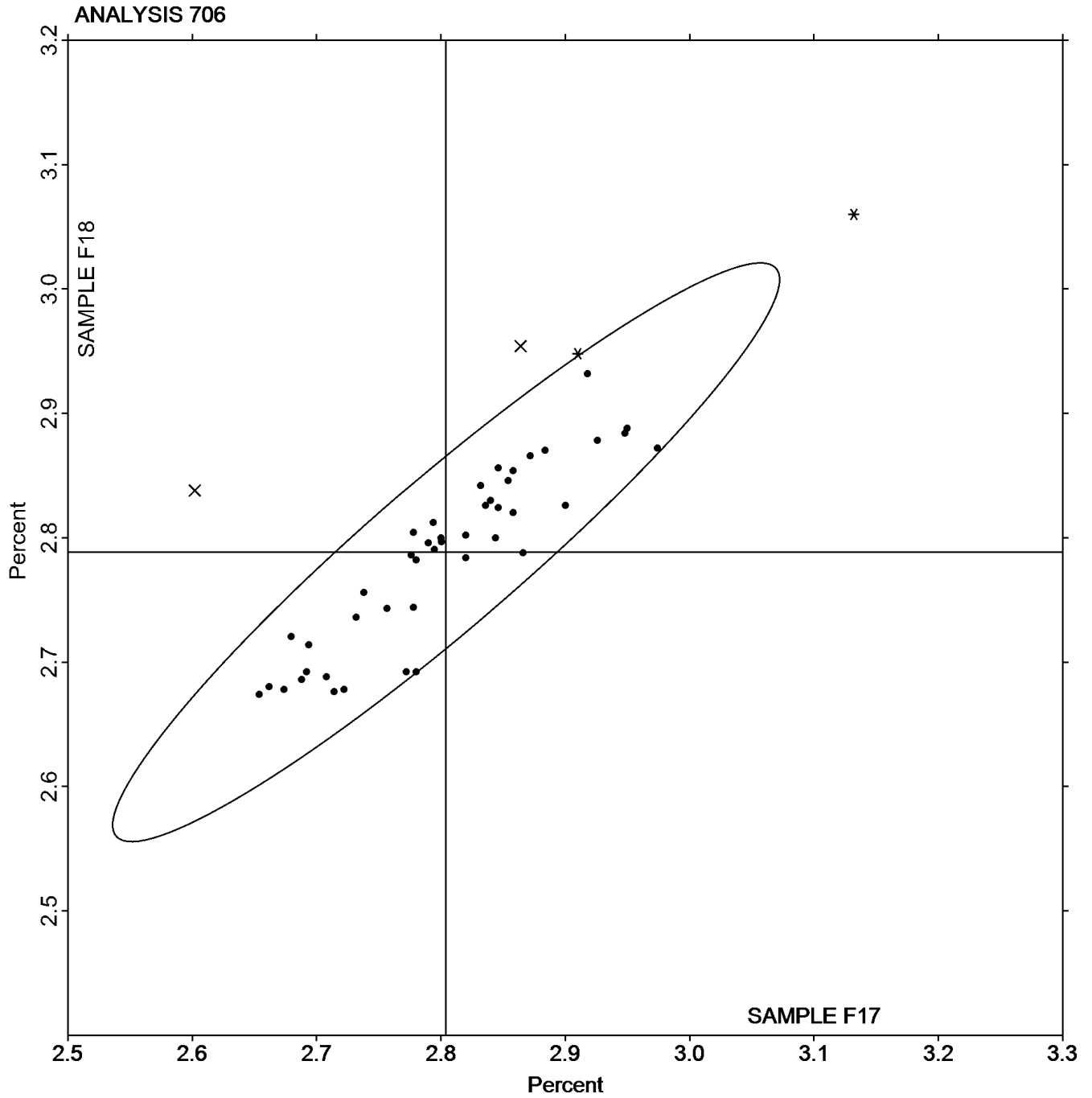
QWQN6V (X) - Data for both samples are high. Also Inconsistent in testing within both samples.

TMUHAP (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F17.

Analysis 706

Percent Elongation at Yield - Percent

Grand Mean Sample F17: 2.8041 Percent    Grand Mean Sample F18: 2.7884 Percent



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

**Plastics Interlaboratory Testing Program**  
**Analysis 708**  
**Modulus of Elasticity - ksi**

| WebCode | Data Flag | Sample F17 |                      |       | Sample F18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 299WKJ  |           | 352.24     | 0.21                 | 0.01  | 346.78     | -5.22                | -0.33 |
| 3AVQQ2  |           | 349.02     | -3.00                | -0.18 | 349.74     | -2.25                | -0.14 |
| 3HLDGW  |           | 369.94     | 17.92                | 1.09  | 366.84     | 14.85                | 0.95  |
| 3LJZ4R  |           | 336.78     | -15.24               | -0.93 | 335.38     | -16.61               | -1.06 |
| 3N73QH  |           | 344.80     | -7.22                | -0.44 | 348.00     | -3.99                | -0.25 |
| 62FKMV  |           | 349.17     | -2.86                | -0.17 | 346.41     | -5.58                | -0.36 |
| 7G6YNV  | *         | 334.56     | -17.46               | -1.06 | 349.08     | -2.91                | -0.19 |
| 7RYRTD  |           | 351.21     | -0.81                | -0.05 | 349.39     | -2.61                | -0.17 |
| 87CLJU  |           | 347.02     | -5.00                | -0.30 | 345.10     | -6.89                | -0.44 |
| 8ACDM7  |           | 372.22     | 20.20                | 1.23  | 368.04     | 16.05                | 1.02  |
| AEZ62Z  |           | 355.62     | 3.60                 | 0.22  | 352.24     | 0.25                 | 0.02  |
| APJNJR  |           | 337.70     | -14.32               | -0.87 | 339.70     | -12.29               | -0.78 |
| ATTZXZ  |           | 366.11     | 14.09                | 0.86  | 373.29     | 21.29                | 1.36  |
| BEQATT  |           | 322.92     | -29.10               | -1.77 | 324.30     | -27.69               | -1.76 |
| BZKW67  |           | 352.17     | 0.15                 | 0.01  | 351.24     | -0.76                | -0.05 |
| D6NKH4  |           | 353.76     | 1.74                 | 0.11  | 349.54     | -2.46                | -0.16 |
| DZZTLE  |           | 347.90     | -4.13                | -0.25 | 353.40     | 1.41                 | 0.09  |
| EAMN9R  |           | 327.15     | -24.87               | -1.51 | 331.18     | -20.81               | -1.33 |
| EXRBFQ  |           | 355.78     | 3.76                 | 0.23  | 352.79     | 0.80                 | 0.05  |
| FD9928  |           | 358.15     | 6.13                 | 0.37  | 351.66     | -0.34                | -0.02 |
| FEXWPN  |           | 350.32     | -1.70                | -0.10 | 356.10     | 4.11                 | 0.26  |
| FREL3W  |           | 359.82     | 7.80                 | 0.47  | 366.72     | 14.73                | 0.94  |
| GBDEMD  |           | 357.64     | 5.62                 | 0.34  | 356.24     | 4.25                 | 0.27  |
| GPAP8U  |           | 329.14     | -22.88               | -1.39 | 329.54     | -22.45               | -1.43 |
| HNMA9A4 |           | 350.04     | -1.99                | -0.12 | 351.92     | -0.07                | 0.00  |
| JNKV79  |           | 357.00     | 4.98                 | 0.30  | 358.60     | 6.61                 | 0.42  |
| KJBCZR  |           | 368.04     | 16.02                | 0.97  | 375.52     | 23.53                | 1.50  |
| LFJ98N  |           | 350.79     | -1.23                | -0.07 | 354.50     | 2.51                 | 0.16  |
| MYPAJ9  |           | 353.14     | 1.12                 | 0.07  | 357.03     | 5.03                 | 0.32  |
| P386ML  |           | 338.93     | -13.10               | -0.80 | 339.55     | -12.44               | -0.79 |
| P8HJAQ  | *         | 337.62     | -14.40               | -0.88 | 327.72     | -24.27               | -1.55 |
| P8W6L2  |           | 347.60     | -4.42                | -0.27 | 346.90     | -5.09                | -0.32 |

**Plastics Interlaboratory Testing Program**  
**Analysis 708**  
**Modulus of Elasticity - ksi**

| WebCode | Data Flag | Sample F17 |                      |       | Sample F18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| PU929M  | X         | 625.17     | 273.15               | 16.62 | 604.64     | 252.65               | 16.09 |
| QMMZLJ  | X         | 622.73     | 270.71               | 16.47 | 656.89     | 304.90               | 19.41 |
| QRZ79V  |           | 356.82     | 4.80                 | 0.29  | 356.76     | 4.77                 | 0.30  |
| QWEG3M  |           | 318.86     | -33.17               | -2.02 | 316.79     | -35.21               | -2.24 |
| R36YPA  |           | 388.66     | 36.64                | 2.23  | 389.74     | 37.75                | 2.40  |
| RZTYX3  | *         | 387.83     | 35.81                | 2.18  | 373.88     | 21.89                | 1.39  |
| TC2KPX  |           | 346.40     | -5.62                | -0.34 | 351.60     | -0.39                | -0.03 |
| TCW4NA  |           | 341.61     | -10.42               | -0.63 | 340.15     | -11.85               | -0.75 |
| U3EJBK  |           | 350.08     | -1.94                | -0.12 | 355.30     | 3.30                 | 0.21  |
| U7DYQ9  |           | 369.15     | 17.13                | 1.04  | 368.66     | 16.67                | 1.06  |
| VBGJT2  |           | 374.54     | 22.52                | 1.37  | 369.34     | 17.35                | 1.10  |
| VL34AZ  |           | 371.21     | 19.18                | 1.17  | 364.57     | 12.57                | 0.80  |
| VNN2LT  | *         | 396.73     | 44.71                | 2.72  | 394.52     | 42.52                | 2.71  |
| X8W89N  |           | 363.11     | 11.09                | 0.67  | 358.73     | 6.73                 | 0.43  |
| YKME26  |           | 353.42     | 1.40                 | 0.09  | 353.02     | 1.03                 | 0.07  |
| YP4Z8A  |           | 334.52     | -17.50               | -1.06 | 334.96     | -17.03               | -1.08 |
| YW3HKL  |           | 347.10     | -4.92                | -0.30 | 347.92     | -4.07                | -0.26 |
| Z97GLM  |           | 326.98     | -25.04               | -1.52 | 326.98     | -25.01               | -1.59 |
| ZREHGA  |           | 337.79     | -14.24               | -0.87 | 340.39     | -11.60               | -0.74 |

| Summary Statistics                                  |                              |
|---|------------------------------|
| Grand Means   | 352.022 ksi      351.994 ksi |
| Std Dev Btwn Labs                                   | 16.435 ksi      15.706 ksi   |
| Statistics based on 49 of 51 reporting participants |                              |

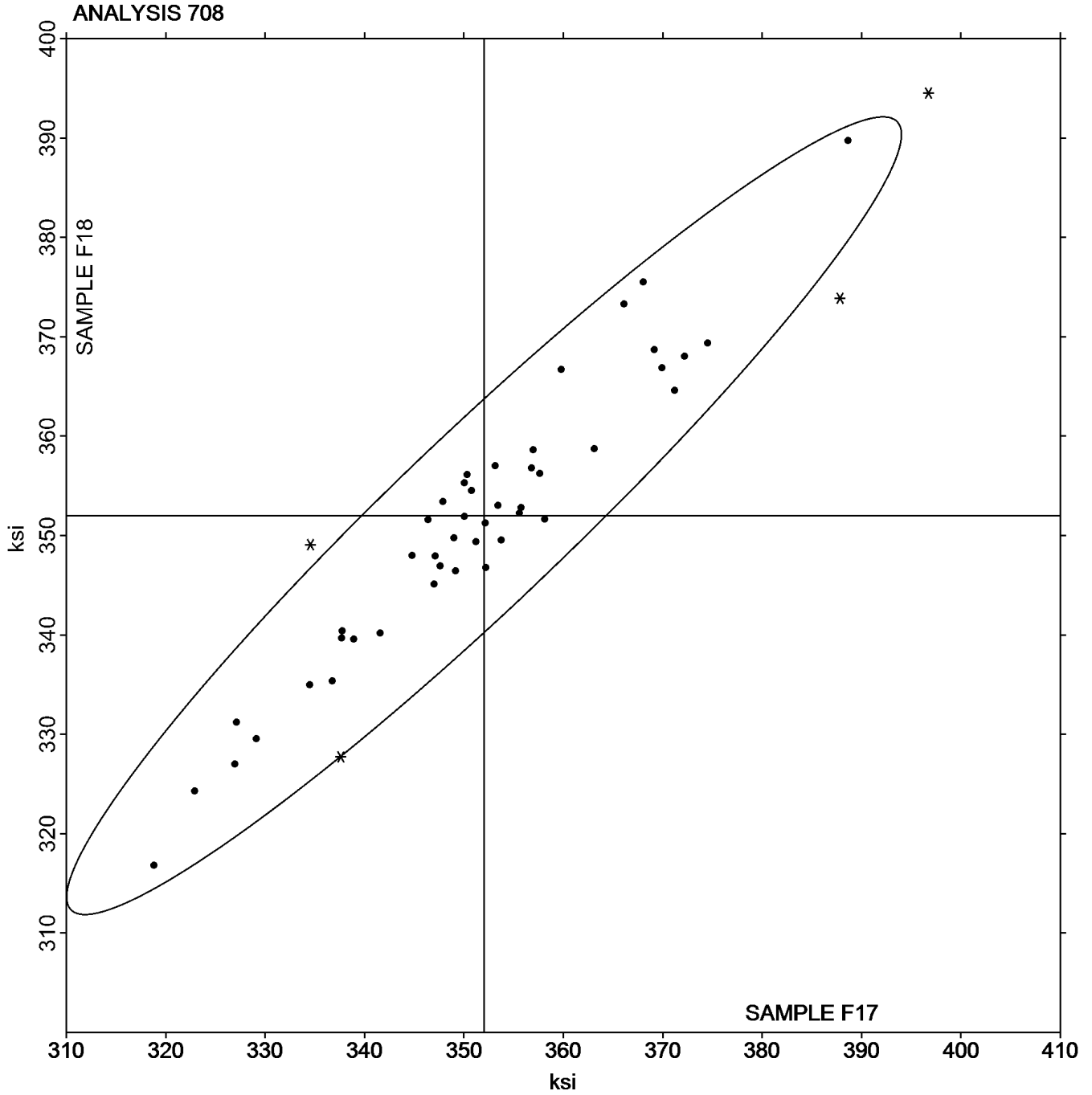
Sample F17: ABS & Sample F18: ABS

**Comments on assigned Data Flags for Test #708**

- PU929M (X) - Data for both samples are high. Also Inconsistent in testing within both samples.
- QMMZLJ (X) - Data for both samples are high.

Plastics Interlaboratory Testing Program  
Analysis 708  
Modulus of Elasticity - ksi

Grand Mean Sample F17: 352.02 ksi    Grand Mean Sample F18: 351.99 ksi



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

## Analysis 730

## Tensile Stress at Yield - MPa

| WebCode | Data Flag | Sample C17 |                      |       | Sample C18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 26YYPP  |           | 64.89      | -0.12                | -0.09 | 64.94      | 0.43                 | 0.37  |
| 2FN3EQ  |           | 66.72      | 1.71                 | 1.27  | 65.18      | 0.67                 | 0.58  |
| 2L2BVG  |           | 65.44      | 0.43                 | 0.32  | 64.87      | 0.36                 | 0.31  |
| 3L7HVL  |           | 66.33      | 1.32                 | 0.98  | 65.50      | 0.99                 | 0.85  |
| 3WQ6H7  |           | 61.97      | -3.04                | -2.26 | 61.86      | -2.64                | -2.28 |
| 6EVHLV  |           | 64.04      | -0.97                | -0.72 | 64.70      | 0.19                 | 0.17  |
| 7P67QZ  |           | 63.62      | -1.39                | -1.03 | 64.73      | 0.22                 | 0.19  |
| 7R9WTX  |           | 65.29      | 0.28                 | 0.21  | 64.53      | 0.02                 | 0.02  |
| 8NLPXA  |           | 66.78      | 1.77                 | 1.32  | 65.32      | 0.81                 | 0.70  |
| 8VGUFT  |           | 65.79      | 0.78                 | 0.58  | 64.91      | 0.41                 | 0.35  |
| 9G7VLG  |           | 64.01      | -1.00                | -0.74 | 64.33      | -0.18                | -0.15 |
| 9GGUH4  |           | 65.92      | 0.91                 | 0.68  | 65.12      | 0.61                 | 0.53  |
| AAJDQW  |           | 63.23      | -1.78                | -1.32 | 63.65      | -0.85                | -0.73 |
| BMMMWN  |           | 65.93      | 0.92                 | 0.68  | 66.22      | 1.71                 | 1.48  |
| CG62V3  |           | 65.65      | 0.64                 | 0.48  | 64.72      | 0.21                 | 0.18  |
| ERM3YY  |           | 67.09      | 2.08                 | 1.55  | 66.52      | 2.01                 | 1.73  |
| F94GL4  |           | 64.66      | -0.35                | -0.26 | 63.20      | -1.30                | -1.12 |
| FYR9DU  |           | 64.57      | -0.44                | -0.33 | 64.17      | -0.33                | -0.29 |
| H37EEX  |           | 64.66      | -0.35                | -0.26 | 64.67      | 0.17                 | 0.15  |
| H922HJ  |           | 64.61      | -0.40                | -0.30 | 64.27      | -0.23                | -0.20 |
| HFP9DM  |           | 63.79      | -1.22                | -0.91 | 62.41      | -2.10                | -1.81 |
| HJ2LY6  |           | 65.00      | -0.01                | -0.01 | 65.09      | 0.59                 | 0.51  |
| HJUQPC  |           | 64.16      | -0.85                | -0.63 | 63.68      | -0.83                | -0.71 |
| JKN8MA  |           | 67.91      | 2.90                 | 2.16  | 66.16      | 1.66                 | 1.43  |
| JWBL8E  |           | 66.13      | 1.12                 | 0.83  | 65.19      | 0.69                 | 0.59  |
| JZULT7  |           | 62.81      | -2.20                | -1.64 | 62.23      | -2.27                | -1.96 |
| K2AAP2  |           | 64.98      | -0.03                | -0.02 | 63.98      | -0.53                | -0.45 |
| K6RDUH  |           | 64.23      | -0.78                | -0.58 | 63.79      | -0.71                | -0.61 |
| KEQREC  |           | 64.77      | -0.24                | -0.18 | 64.33      | -0.18                | -0.16 |
| KVKMYR  |           | 65.13      | 0.12                 | 0.09  | 63.63      | -0.88                | -0.76 |
| LAL4T6  |           | 67.68      | 2.67                 | 1.99  | 66.76      | 2.25                 | 1.94  |
| MCK8ZE  |           | 63.32      | -1.69                | -1.26 | 64.14      | -0.37                | -0.32 |

## Analysis 730

## Tensile Stress at Yield - MPa

| WebCode | Data Flag | Sample C17 |                      |       | Sample C18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| NMQAGQ  |           | 65.19      | 0.18                 | 0.13  | 65.30      | 0.79                 | 0.69  |
| NQJNAD  |           | 64.03      | -0.98                | -0.73 | 63.02      | -1.48                | -1.28 |
| NR6GVE  |           | 66.45      | 1.44                 | 1.07  | 65.30      | 0.79                 | 0.68  |
| PJCKRA  |           | 65.68      | 0.67                 | 0.50  | 65.06      | 0.55                 | 0.48  |
| QEKW8D  |           | 64.36      | -0.65                | -0.48 | 64.88      | 0.37                 | 0.32  |
| QZLUQ7  |           | 65.22      | 0.21                 | 0.15  | 65.41      | 0.91                 | 0.78  |
| RGMQCV  |           | 65.85      | 0.84                 | 0.63  | 66.42      | 1.92                 | 1.65  |
| RN73K2  | *         | 62.51      | -2.50                | -1.86 | 64.32      | -0.19                | -0.16 |
| RWENDQ  |           | 65.26      | 0.25                 | 0.18  | 64.07      | -0.43                | -0.37 |
| TDNBFY  |           | 65.55      | 0.54                 | 0.40  | 64.71      | 0.21                 | 0.18  |
| U8CAQT  |           | 65.73      | 0.72                 | 0.53  | 65.55      | 1.05                 | 0.90  |
| V9ZGHW  |           | 62.21      | -2.80                | -2.08 | 63.05      | -1.45                | -1.25 |
| VCUH3Y  |           | 66.00      | 0.99                 | 0.74  | 65.28      | 0.77                 | 0.67  |
| VTBC63  |           | 66.47      | 1.46                 | 1.09  | 64.60      | 0.09                 | 0.08  |
| W3YG86  |           | 65.45      | 0.44                 | 0.33  | 64.70      | 0.19                 | 0.17  |
| WCU3C2  |           | 63.37      | -1.64                | -1.22 | 62.53      | -1.98                | -1.71 |
| X3DAE7  |           | 65.65      | 0.64                 | 0.48  | 65.03      | 0.53                 | 0.45  |
| X62ZB4  |           | 65.30      | 0.29                 | 0.22  | 64.56      | 0.05                 | 0.05  |
| X8Q2KX  |           | 62.54      | -2.47                | -1.84 | 61.60      | -2.90                | -2.50 |
| XFBMWU  |           | 66.72      | 1.71                 | 1.27  | 66.32      | 1.81                 | 1.56  |
| XH34E9  |           | 64.97      | -0.04                | -0.03 | 64.85      | 0.35                 | 0.30  |
| XQE32L  |           | 66.35      | 1.34                 | 0.99  | 65.15      | 0.64                 | 0.55  |
| YMFKNE  |           | 63.84      | -1.17                | -0.87 | 62.74      | -1.77                | -1.52 |
| YMJ933  |           | 66.57      | 1.56                 | 1.16  | 65.56      | 1.05                 | 0.91  |
| ZQNRGE  |           | 63.37      | -1.64                | -1.22 | 63.21      | -1.29                | -1.11 |
| ZX7BR2  |           | 64.84      | -0.17                | -0.13 | 63.29      | -1.21                | -1.05 |



Analysis 730

Tensile Stress at Yield - MPa

Summary Statistics

Grand Means

65.010 MPa

64.506 MPa

Std Dev Btwn Labs

1.343 MPa

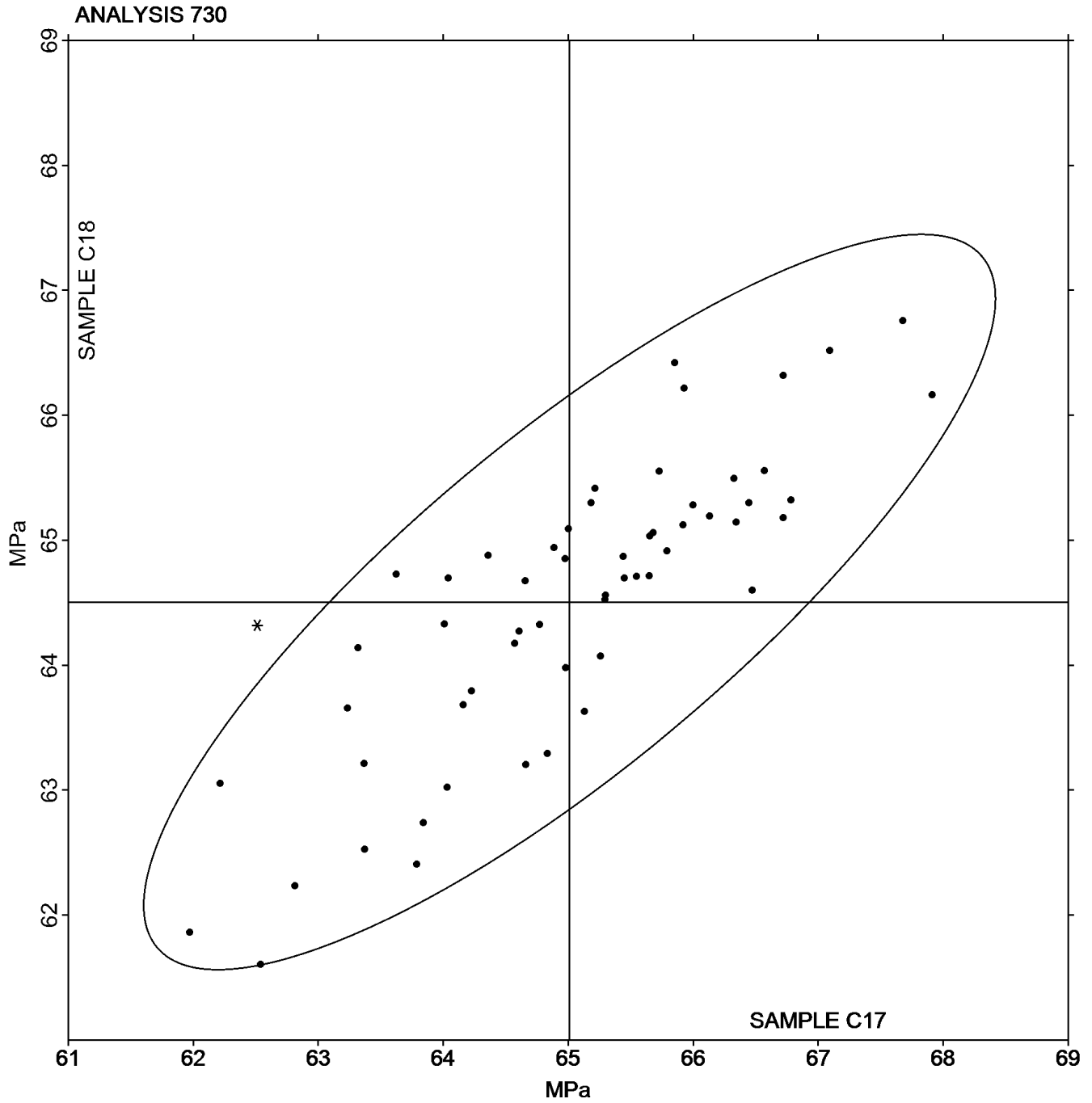
1.159 MPa

Statistics based on 58 of 58 reporting participants

Sample C17: ABS/PC & Sample C18: ABS/PC

Analysis 730  
Tensile Stress at Yield - MPa

Grand Mean Sample C17: 65.010 MPa    Grand Mean Sample C18: 64.506 MPa



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

## Analysis 731

## Tensile Stress at Break - MPa

| WebCode | Data Flag | Sample C17 |                      |        | Sample C18 |                      |        |
|---------|-----------|------------|----------------------|--------|------------|----------------------|--------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV    | Lab Mean   | Diff from Grand Mean | CPV    |
| 24G842  |           | 47.93      | 0.31                 | 0.23   | 49.36      | 1.82                 | 1.25   |
| 2984MD  |           | 48.04      | 0.42                 | 0.31   | 47.66      | 0.11                 | 0.08   |
| 43GUMG  |           | 46.75      | -0.87                | -0.65  | 46.41      | -1.14                | -0.79  |
| 63XDC3  | X         | 32.40      | -15.22               | -11.40 | 30.49      | -17.06               | -11.77 |
| 6BCXKA  |           | 48.36      | 0.74                 | 0.55   | 49.65      | 2.11                 | 1.45   |
| 6DQVD7  |           | 45.89      | -1.73                | -1.30  | 45.27      | -2.27                | -1.57  |
| 6JWPCB  |           | 48.48      | 0.86                 | 0.64   | 47.00      | -0.55                | -0.38  |
| 93QHJG  |           | 45.60      | -2.02                | -1.51  | 45.89      | -1.65                | -1.14  |
| 9WCB9M  |           | 49.26      | 1.64                 | 1.23   | 47.24      | -0.30                | -0.21  |
| A9T4VJ  |           | 47.89      | 0.28                 | 0.21   | 48.48      | 0.93                 | 0.64   |
| AJKGEG  | *         | 44.33      | -3.29                | -2.47  | 44.29      | -3.25                | -2.24  |
| CUX8H7  |           | 49.16      | 1.54                 | 1.15   | 49.24      | 1.70                 | 1.17   |
| DNYUNP  |           | 49.06      | 1.44                 | 1.08   | 46.45      | -1.09                | -0.75  |
| EL67DE  |           | 47.01      | -0.61                | -0.46  | 47.75      | 0.21                 | 0.14   |
| ER2KPY  |           | 48.62      | 1.01                 | 0.75   | 47.76      | 0.22                 | 0.15   |
| EX2N7R  |           | 46.46      | -1.15                | -0.87  | 47.65      | 0.10                 | 0.07   |
| EZDTWT  |           | 50.49      | 2.87                 | 2.15   | 49.71      | 2.17                 | 1.49   |
| EZKTL6  |           | 48.49      | 0.87                 | 0.65   | 47.97      | 0.43                 | 0.30   |
| G8G3AA  |           | 49.83      | 2.22                 | 1.66   | 48.95      | 1.41                 | 0.97   |
| GGQ3VL  |           | 46.43      | -1.19                | -0.89  | 47.38      | -0.17                | -0.11  |
| GVELNP  |           | 47.63      | 0.01                 | 0.01   | 47.08      | -0.46                | -0.32  |
| HDBYT7  |           | 47.72      | 0.10                 | 0.08   | 46.98      | -0.56                | -0.39  |
| JG36KU  |           | 48.62      | 1.00                 | 0.75   | 48.22      | 0.68                 | 0.47   |
| JT2K2H  | *         | 46.05      | -1.57                | -1.18  | 49.19      | 1.65                 | 1.14   |
| KFCGEN  |           | 47.20      | -0.42                | -0.31  | 46.04      | -1.50                | -1.04  |
| KNV3MF  |           | 48.71      | 1.09                 | 0.81   | 48.35      | 0.81                 | 0.56   |
| L9MZW8  |           | 47.94      | 0.32                 | 0.24   | 49.82      | 2.28                 | 1.57   |
| LWQMEH  |           | 49.45      | 1.83                 | 1.37   | 48.60      | 1.06                 | 0.73   |
| MJXPZ8  |           | 46.39      | -1.23                | -0.92  | 47.05      | -0.50                | -0.34  |
| MPZ7BV  |           | 47.99      | 0.37                 | 0.28   | 47.62      | 0.07                 | 0.05   |
| MZDT27  |           | 49.33      | 1.72                 | 1.29   | 49.33      | 1.78                 | 1.23   |
| NRLLBH  |           | 48.24      | 0.62                 | 0.47   | 49.10      | 1.56                 | 1.07   |

**Plastics Interlaboratory Testing Program  
Analysis 731  
Tensile Stress at Break - MPa**

| WebCode | Data Flag | Sample C17 |                      |       | Sample C18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| PG7YZ6  | *         | 48.39      | 0.77                 | 0.58  | 45.06      | -2.49                | -1.72 |
| PJTLEW  |           | 46.06      | -1.56                | -1.17 | 47.36      | -0.18                | -0.13 |
| PNCPPY  |           | 47.93      | 0.31                 | 0.23  | 47.57      | 0.02                 | 0.01  |
| R4AJ3F  |           | 48.08      | 0.46                 | 0.35  | 49.32      | 1.77                 | 1.22  |
| RAMRX9  |           | 44.45      | -3.17                | -2.38 | 44.86      | -2.68                | -1.85 |
| TBBB7T  |           | 48.94      | 1.32                 | 0.99  | 49.28      | 1.74                 | 1.20  |
| VFUB76  |           | 46.30      | -1.32                | -0.99 | 44.90      | -2.64                | -1.82 |
| VR6P98  |           | 47.67      | 0.06                 | 0.04  | 47.69      | 0.14                 | 0.10  |
| WN3MZ8  |           | 47.35      | -0.26                | -0.20 | 47.52      | -0.02                | -0.01 |
| WW3XGV  |           | 46.30      | -1.32                | -0.99 | 47.35      | -0.20                | -0.14 |
| WWDNX7  |           | 46.88      | -0.74                | -0.56 | 48.03      | 0.48                 | 0.33  |
| Y22BRY  |           | 46.44      | -1.18                | -0.89 | 45.92      | -1.63                | -1.12 |
| Y9VZC4  |           | 47.97      | 0.35                 | 0.26  | 48.29      | 0.74                 | 0.51  |
| YG7DYY  |           | 47.62      | 0.00                 | 0.00  | 48.10      | 0.56                 | 0.39  |
| YGYZXZ  |           | 48.79      | 1.17                 | 0.88  | 48.08      | 0.54                 | 0.37  |
| YTNRHV  |           | 49.14      | 1.52                 | 1.14  | 47.66      | 0.12                 | 0.08  |
| YTR2CZ  |           | 46.78      | -0.84                | -0.63 | 46.15      | -1.39                | -0.96 |
| YUZR BX |           | 45.62      | -1.99                | -1.49 | 44.00      | -3.54                | -2.44 |
| YWM9L7  |           | 46.58      | -1.04                | -0.78 | 47.44      | -0.10                | -0.07 |
| Z9C2MP  |           | 47.92      | 0.31                 | 0.23  | 48.70      | 1.16                 | 0.80  |

| Summary Statistics                                  |            |            |  |
|---|------------|------------|--|
| Grand Means   | 47.619 MPa | 47.544 MPa |  |
| Std Dev Btwn Labs                                   | 1.335 MPa  | 1.450 MPa  |  |
| Statistics based on 51 of 52 reporting participants |            |            |  |

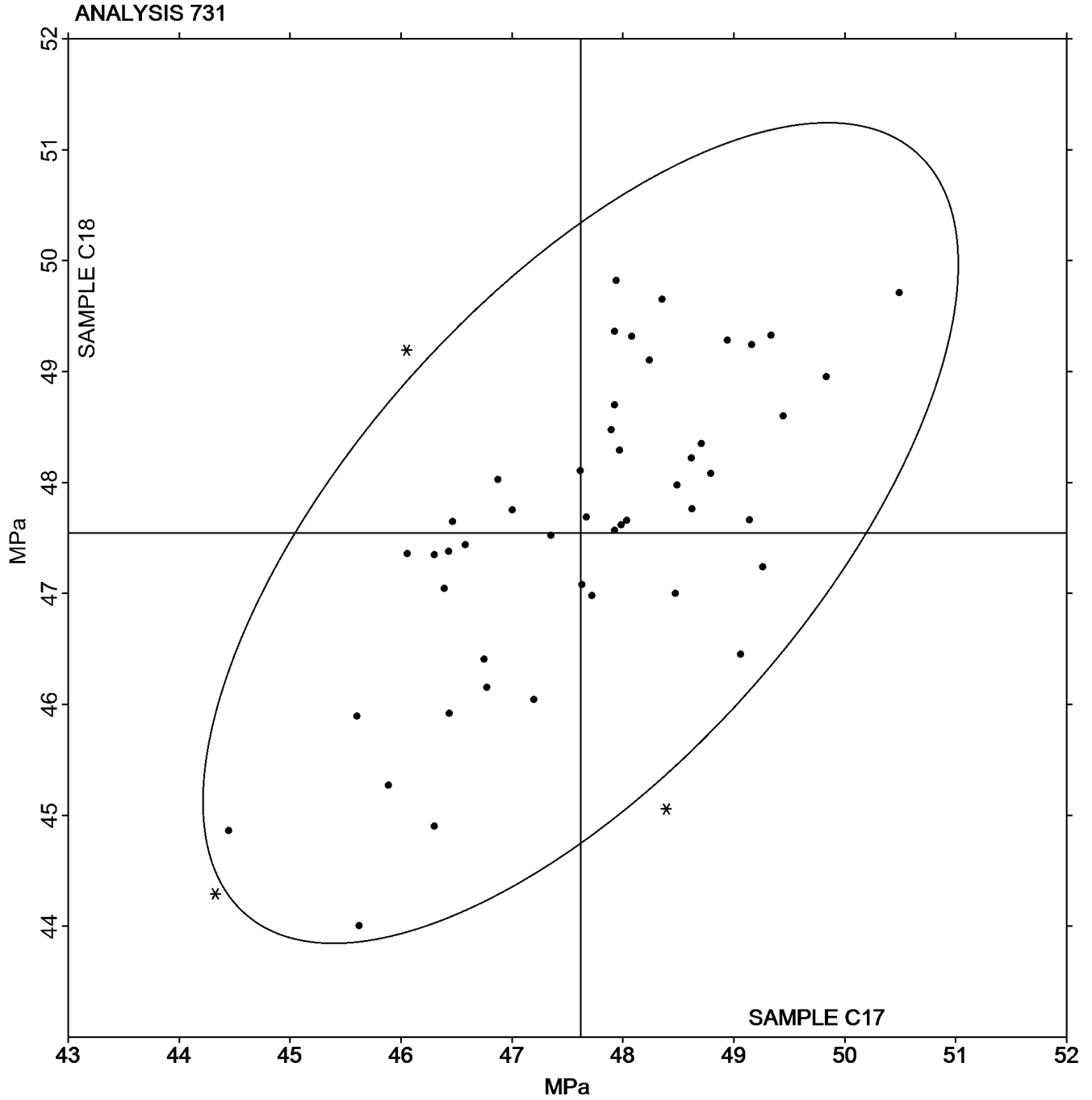
Sample C17: ABS/PC & Sample C18: ABS/PC

**Comments on assigned Data Flags for Test #731**

63XDC3 (X) - Data for both samples are low. Also Inconsistent in testing within Sample C17.

Analysis 731  
Tensile Stress at Break - MPa

Grand Mean Sample C17: 47.619 MPa    Grand Mean Sample C18: 47.544 MPa



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

Analysis 732  
 Percent Strain at Yield

| WebCode | Data Flag | Sample C17 |                      |       | Sample C18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 2EGJPK  |           | 3.664      | 0.034                | 0.32  | 3.488      | -0.076               | -0.69 |
| 3E69KM  |           | 3.672      | 0.042                | 0.39  | 3.601      | 0.037                | 0.33  |
| 3EZC7R  |           | 3.858      | 0.228                | 2.13  | 3.780      | 0.216                | 1.94  |
| 4UQCA4  |           | 3.694      | 0.064                | 0.60  | 3.740      | 0.176                | 1.58  |
| 6974VT  |           | 3.498      | -0.132               | -1.23 | 3.524      | -0.040               | -0.36 |
| 6EMQ3R  |           | 3.620      | -0.010               | -0.09 | 3.600      | 0.036                | 0.32  |
| 7323EP  |           | 3.512      | -0.118               | -1.10 | 3.450      | -0.114               | -1.03 |
| 7GACGV  |           | 3.702      | 0.072                | 0.67  | 3.628      | 0.064                | 0.57  |
| 7YH2BJ  |           | 3.720      | 0.090                | 0.84  | 3.658      | 0.094                | 0.84  |
| 8J4RUV  |           | 3.674      | 0.044                | 0.41  | 3.590      | 0.026                | 0.23  |
| 8T27JK  |           | 3.674      | 0.045                | 0.42  | 3.637      | 0.073                | 0.66  |
| AZRZ76  |           | 3.688      | 0.058                | 0.54  | 3.602      | 0.038                | 0.34  |
| B49PGU  |           | 3.696      | 0.066                | 0.62  | 3.578      | 0.014                | 0.12  |
| CAAP7X  |           | 3.428      | -0.202               | -1.88 | 3.352      | -0.212               | -1.91 |
| D79YNR  |           | 3.508      | -0.122               | -1.14 | 3.394      | -0.170               | -1.54 |
| DP3WUA  |           | 3.678      | 0.048                | 0.45  | 3.626      | 0.062                | 0.56  |
| E3MRJP  |           | 3.652      | 0.022                | 0.21  | 3.498      | -0.066               | -0.60 |
| E6KVTK  |           | 3.714      | 0.084                | 0.78  | 3.652      | 0.088                | 0.79  |
| GGBTXR  | *         | 3.358      | -0.272               | -2.54 | 3.220      | -0.344               | -3.10 |
| GNAD7E  |           | 3.628      | -0.002               | -0.02 | 3.550      | -0.014               | -0.13 |
| GQY4J4  |           | 3.698      | 0.068                | 0.64  | 3.678      | 0.114                | 1.02  |
| GZZ4JD  |           | 3.670      | 0.040                | 0.37  | 3.546      | -0.018               | -0.17 |
| HY4ZMA  | X         | 2.992      | -0.638               | -5.95 | 3.100      | -0.464               | -4.19 |
| JD44PF  | X         | 6.188      | 2.558                | 23.87 | 6.226      | 2.662                | 23.99 |
| JHQ74H  |           | 3.638      | 0.008                | 0.08  | 3.482      | -0.082               | -0.74 |
| JUU2TV  |           | 3.630      | 0.000                | 0.00  | 3.608      | 0.044                | 0.39  |
| K72UZN  |           | 3.640      | 0.010                | 0.10  | 3.658      | 0.094                | 0.85  |
| KU9XT6  |           | 3.522      | -0.108               | -1.01 | 3.474      | -0.090               | -0.81 |
| M7MTVE  |           | 3.698      | 0.068                | 0.64  | 3.626      | 0.062                | 0.56  |
| M8GP7P  |           | 3.566      | -0.064               | -0.60 | 3.598      | 0.034                | 0.30  |
| MHATRH  |           | 3.718      | 0.088                | 0.82  | 3.638      | 0.074                | 0.66  |
| PCDFZD  |           | 3.462      | -0.168               | -1.57 | 3.434      | -0.130               | -1.18 |

**Plastics Interlaboratory Testing Program  
Analysis 732  
Percent Strain at Yield**

| WebCode | Data Flag | Sample C17 |                      |       | Sample C18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| PYGPHG  |           | 3.612      | -0.018               | -0.17 | 3.464      | -0.100               | -0.91 |
| Q9JKCG  | X         | 3.382      | -0.248               | -2.31 | 3.660      | 0.096                | 0.86  |
| R7Y6KC  |           | 3.524      | -0.106               | -0.99 | 3.592      | 0.028                | 0.25  |
| RU2ABF  | X         | 4.946      | 1.316                | 12.28 | 4.884      | 1.320                | 11.89 |
| RVGEX4  |           | 3.800      | 0.170                | 1.59  | 3.720      | 0.156                | 1.40  |
| TFLV2Y  |           | 3.626      | -0.004               | -0.04 | 3.558      | -0.006               | -0.06 |
| UUD6XN  |           | 3.644      | 0.014                | 0.13  | 3.568      | 0.004                | 0.03  |
| VE7DVZ  |           | 3.678      | 0.048                | 0.45  | 3.656      | 0.092                | 0.83  |
| W9NUNA  |           | 3.500      | -0.130               | -1.21 | 3.520      | -0.044               | -0.40 |
| WB2MAU  |           | 3.708      | 0.078                | 0.73  | 3.598      | 0.034                | 0.30  |
| WBMZRD  |           | 3.620      | -0.010               | -0.09 | 3.620      | 0.056                | 0.50  |
| WJ94YJ  |           | 3.521      | -0.109               | -1.02 | 3.447      | -0.118               | -1.06 |
| WTZP26  |           | 3.718      | 0.088                | 0.82  | 3.658      | 0.094                | 0.84  |
| XQJFJ   | *         | 3.314      | -0.316               | -2.95 | 3.280      | -0.284               | -2.56 |
| Y839YV  |           | 3.716      | 0.086                | 0.80  | 3.642      | 0.078                | 0.70  |
| YWFPL6  |           | 3.779      | 0.150                | 1.40  | 3.685      | 0.121                | 1.09  |
| YX4BQL  |           | 3.598      | -0.032               | -0.30 | 3.514      | -0.050               | -0.45 |
| YZEA3A  |           | 3.700      | 0.070                | 0.66  | 3.610      | 0.046                | 0.41  |
| Z3DF3T  |           | 3.560      | -0.070               | -0.65 | 3.440      | -0.124               | -1.12 |
| Z8YW74  |           | 3.712      | 0.082                | 0.77  | 3.592      | 0.028                | 0.25  |
| ZCVLKG  |           | 3.654      | 0.024                | 0.22  | 3.582      | 0.018                | 0.16  |

| Summary Statistics                                  |        |         |         |
|---|--------|---------|---------|
| Grand Means   | 3.6299 | Percent | 3.5644  |
|   |        |         | Percent |
| Std Dev Btwn Labs                                   | 0.1072 | Percent | 0.1110  |
|   |        |         | Percent |
| Statistics based on 49 of 53 reporting participants |        |         |         |

Sample C17: ABS/PC & Sample C18: ABS/PC

Analysis 732  
Percent Strain at Yield

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**Comments on assigned Data Flags for Test #732**

HY4ZMA (X) - Data for both samples are low. Also Inconsistent in testing within Sample C18.

JD44PF (X) - Data for both samples are high. Also Inconsistent in testing within Sample C18.

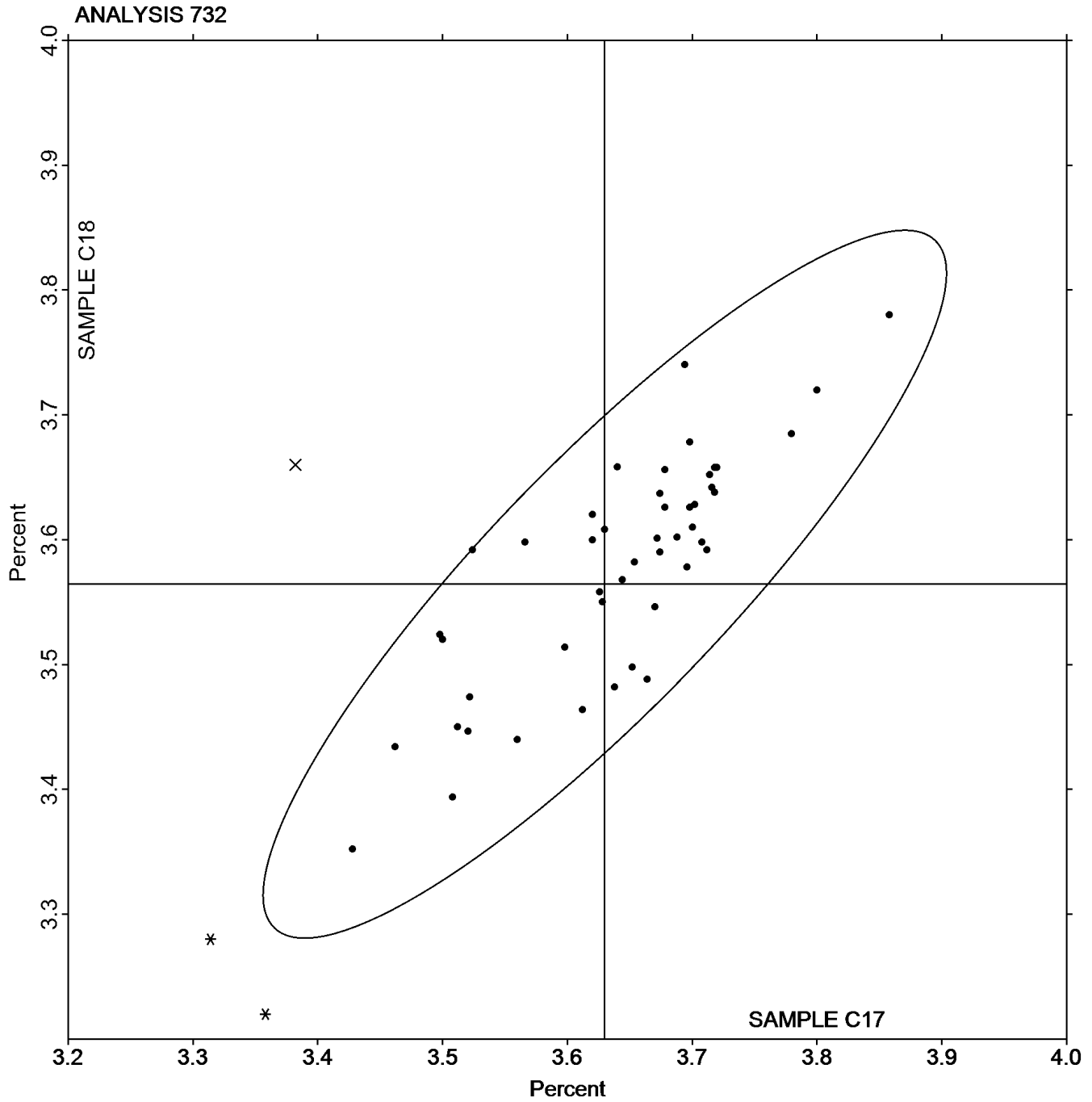
Q9JKCG (X) - Inconsistent in testing between samples and inconsistent in testing within Sample C17.

RU2ABF (X) - Data for both samples are high.



Analysis 732  
Percent Strain at Yield

Grand Mean Sample C17: 3.6299 Percent    Grand Mean Sample C18: 3.5644 Percent



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

## Analysis 734

## Modulus of Elasticity - MPa

| WebCode | Data Flag | Sample C17 |                      |       | Sample C18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 2NW79D  |           | 2,890      | 27                   | 0.19  | 2,842      | 50                   | 0.35  |
| 2TYHCD  |           | 2,708      | -155                 | -1.07 | 2,658      | -134                 | -0.94 |
| 3LTDR4  |           | 2,866      | 3                    | 0.02  | 2,804      | 12                   | 0.08  |
| 3RZLRA  |           | 2,715      | -147                 | -1.02 | 2,728      | -64                  | -0.45 |
| 4KFVVR3 |           | 3,183      | 320                  | 2.22  | 3,115      | 323                  | 2.27  |
| 4VZQTJ  |           | 2,923      | 60                   | 0.42  | 2,871      | 79                   | 0.56  |
| 6E98HU  |           | 2,819      | -43                  | -0.30 | 2,748      | -44                  | -0.31 |
| 79ZJGL  |           | 2,839      | -24                  | -0.17 | 2,745      | -47                  | -0.33 |
| 7FHPX4  |           | 2,906      | 43                   | 0.30  | 2,934      | 142                  | 1.00  |
| 7GCY3J  |           | 2,903      | 40                   | 0.28  | 2,814      | 22                   | 0.16  |
| 7Y7LE9  | *         | 2,593      | -270                 | -1.87 | 2,632      | -160                 | -1.13 |
| 7YR6DM  |           | 2,709      | -154                 | -1.07 | 2,685      | -107                 | -0.75 |
| 823N8L  |           | 3,037      | 175                  | 1.21  | 2,962      | 170                  | 1.20  |
| 8CU4RE  | X         | 3,448      | 585                  | 4.06  | 3,012      | 220                  | 1.55  |
| 8FYQNJ  |           | 2,911      | 48                   | 0.33  | 2,915      | 123                  | 0.87  |
| 9DBWLU  |           | 2,932      | 69                   | 0.48  | 2,849      | 57                   | 0.40  |
| 9FADJX  |           | 2,925      | 62                   | 0.43  | 2,872      | 80                   | 0.57  |
| A49GNA  |           | 2,897      | 34                   | 0.24  | 2,824      | 32                   | 0.22  |
| ADND8U  |           | 3,057      | 194                  | 1.34  | 2,891      | 99                   | 0.70  |
| B6NEUJ  |           | 2,678      | -184                 | -1.28 | 2,540      | -252                 | -1.78 |
| BMC7ZW  | X         | 2,668      | -194                 | -1.35 | 2,841      | 49                   | 0.35  |
| BMJ26L  |           | 3,001      | 139                  | 0.96  | 2,902      | 110                  | 0.78  |
| BP7NJD  |           | 2,799      | -64                  | -0.44 | 2,744      | -48                  | -0.34 |
| CEMGLT  |           | 2,948      | 86                   | 0.59  | 2,888      | 96                   | 0.68  |
| DALTBA  |           | 2,943      | 81                   | 0.56  | 2,881      | 89                   | 0.62  |
| EA6LQG  |           | 2,845      | -18                  | -0.12 | 2,745      | -47                  | -0.33 |
| EYND3V  |           | 2,792      | -71                  | -0.49 | 2,688      | -104                 | -0.73 |
| FV3CKN  |           | 2,688      | -175                 | -1.21 | 2,635      | -157                 | -1.11 |
| GH3VMR  | X         | 2,196      | -666                 | -4.62 | 2,161      | -631                 | -4.44 |
| GL7DAL  |           | 2,697      | -165                 | -1.15 | 2,549      | -243                 | -1.71 |
| GTNCQJ  |           | 2,757      | -105                 | -0.73 | 2,716      | -76                  | -0.53 |
| GVTJ3N  |           | 2,853      | -10                  | -0.07 | 2,706      | -86                  | -0.60 |

Analysis 734  
Modulus of Elasticity - MPa

| WebCode | Data Flag | Sample C17 |                      |       | Sample C18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| JGX4KC  |           | 2,932      | 69                   | 0.48  | 2,941      | 149                  | 1.05  |
| JJW8PW  | X         | 3,055      | 192                  | 1.33  | 2,779      | -13                  | -0.09 |
| JLEHAW  |           | 2,957      | 95                   | 0.66  | 2,878      | 86                   | 0.61  |
| LNEC7B  | *         | 2,492      | -371                 | -2.57 | 2,358      | -434                 | -3.05 |
| MVKECM  |           | 2,801      | -62                  | -0.43 | 2,743      | -49                  | -0.35 |
| PKY4LE  |           | 2,985      | 122                  | 0.85  | 2,889      | 97                   | 0.68  |
| PT9TL6  | X         | 3,193      | 330                  | 2.29  | 3,345      | 553                  | 3.89  |
| Q62YK2  |           | 2,957      | 94                   | 0.65  | 2,888      | 96                   | 0.67  |
| RCC948  |           | 2,857      | -6                   | -0.04 | 2,763      | -29                  | -0.20 |
| T27JQB  |           | 2,993      | 130                  | 0.90  | 2,835      | 43                   | 0.31  |
| UKVB94  |           | 2,982      | 119                  | 0.82  | 2,901      | 109                  | 0.77  |
| WACG87  |           | 2,635      | -228                 | -1.58 | 2,545      | -247                 | -1.73 |
| X39G9E  |           | 2,852      | -10                  | -0.07 | 2,788      | -4                   | -0.03 |
| Y36PXW  |           | 2,867      | 5                    | 0.03  | 2,799      | 7                    | 0.05  |
| Y9D4U7  |           | 2,811      | -52                  | -0.36 | 2,713      | -79                  | -0.56 |
| YAQTQJ  |           | 2,902      | 39                   | 0.27  | 2,889      | 97                   | 0.68  |
| YAXN24  |           | 2,734      | -129                 | -0.89 | 2,685      | -107                 | -0.76 |
| YCT97H  | *         | 3,282      | 419                  | 2.91  | 3,130      | 338                  | 2.37  |
| YMXFF2  | X         | 1,619      | -1,244               | -8.62 | 1,481      | -1,311               | -9.23 |
| YPLWP9  | X         | 3,910      | 1,047                | 7.26  | 3,456      | 664                  | 4.67  |
| YY449U  |           | 2,941      | 78                   | 0.54  | 2,856      | 64                   | 0.45  |
| Z4EQB9  |           | 2,752      | -110                 | -0.77 | 2,739      | -53                  | -0.37 |

| Summary Statistics                                  |                              |
|---|------------------------------|
| Grand Means   | 2,862.6 MPa      2,792.0 MPa |
| Std Dev Btwn Labs                                   | 144.3 MPa      142.2 MPa     |
| Statistics based on 47 of 54 reporting participants |                              |

Sample C17: ABS/PC & Sample C18: ABS/PC

## Analysis 734

Modulus of Elasticity - MPa

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**Comments on assigned Data Flags for Test #734**

8CU4RE (X) - Inconsistent in testing between samples, data for Sample C17 are high. Also Inconsistent in testing within both samples.

BMC7ZW (X) - Inconsistent in testing between samples.

GH3VMR (X) - Data for both samples are low. Also Inconsistent in testing within Sample C17.

JJW8PW (X) - Inconsistent in testing between samples and inconsistent in testing within Sample C18.

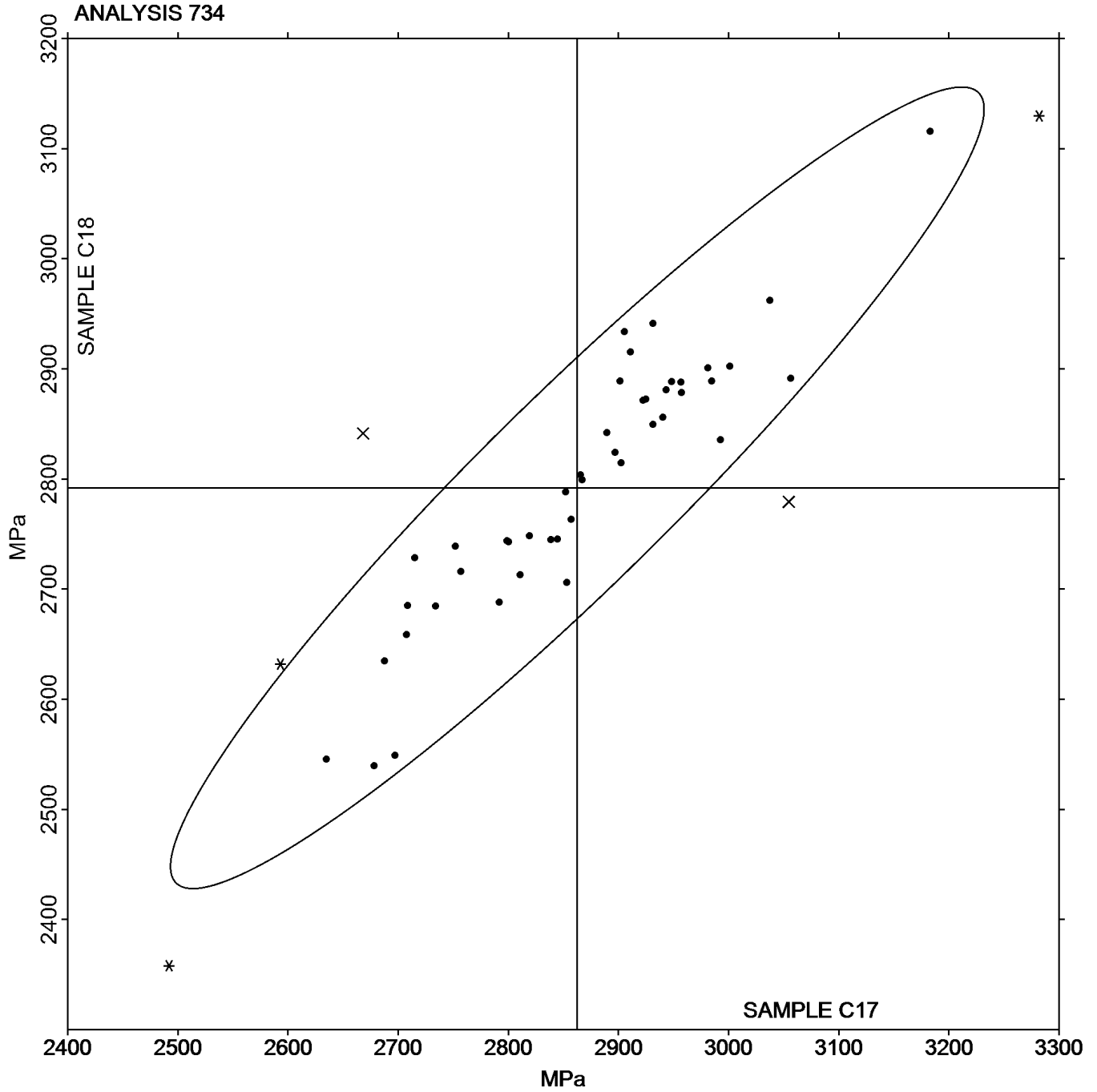
PT9TL6 (X) - Inconsistent in testing between samples, data for Sample C18 are high. Also Inconsistent in testing within both samples.

YMXFF2 (X) - Data for both samples are low.

YPLWP9 (X) - Data for both samples are high. Also Inconsistent in testing within both samples.

Analysis 734  
Modulus of Elasticity - MPa

Grand Mean Sample C17: 2,862.62 MPa    Grand Mean Sample C18: 2,791.98 MPa



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

**Plastics Interlaboratory Testing Program**  
**Analysis 720**  
**Flexural Modulus- ksi**

| WebCode | Data Flag | Sample J17 |                      |       | Sample J18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 2FN3C2  |           | 423.6      | 3.3                  | 0.21  | 424.8      | 4.1                  | 0.26  |
| 2G9BK9  |           | 441.1      | 20.9                 | 1.30  | 441.6      | 20.9                 | 1.34  |
| 3AT9ED  |           | 412.2      | -8.1                 | -0.50 | 408.0      | -12.8                | -0.81 |
| 4CFMVA  |           | 414.0      | -6.3                 | -0.39 | 411.7      | -9.1                 | -0.58 |
| 4N3ERX  | *         | 392.8      | -27.5                | -1.71 | 388.1      | -32.6                | -2.08 |
| 62BLKG  |           | 405.2      | -15.1                | -0.94 | 407.6      | -13.2                | -0.84 |
| 6Z87XZ  |           | 416.0      | -4.3                 | -0.27 | 415.1      | -5.6                 | -0.36 |
| 724FN6  |           | 420.3      | 0.0                  | 0.00  | 418.7      | -2.0                 | -0.13 |
| 7EFR2E  |           | 421.9      | 1.6                  | 0.10  | 422.6      | 1.9                  | 0.12  |
| 7K2K92  |           | 401.6      | -18.6                | -1.16 | 398.7      | -22.0                | -1.41 |
| 7X79FP  |           | 422.1      | 1.8                  | 0.12  | 428.7      | 7.9                  | 0.51  |
| 89PKAN  |           | 443.1      | 22.9                 | 1.42  | 442.1      | 21.4                 | 1.37  |
| 93PPT7  |           | 417.0      | -3.3                 | -0.20 | 418.6      | -2.1                 | -0.13 |
| 9KY2TH  | X         | 276.3      | -144.0               | -8.96 | 271.9      | -148.8               | -9.50 |
| AJ4CVX  |           | 422.3      | 2.1                  | 0.13  | 422.6      | 1.9                  | 0.12  |
| AL6EMU  |           | 419.1      | -1.2                 | -0.07 | 420.4      | -0.4                 | -0.02 |
| AW9HZ6  |           | 396.4      | -23.8                | -1.48 | 398.7      | -22.0                | -1.41 |
| AYTJPE  |           | 423.5      | 3.2                  | 0.20  | 423.6      | 2.9                  | 0.18  |
| B83BW6  |           | 403.6      | -16.6                | -1.04 | 410.4      | -10.4                | -0.66 |
| CCNZVK  |           | 426.4      | 6.2                  | 0.38  | 426.3      | 5.6                  | 0.36  |
| DC7XEG  |           | 431.1      | 10.8                 | 0.67  | 431.5      | 10.8                 | 0.69  |
| DRY833  |           | 412.3      | -8.0                 | -0.50 | 412.5      | -8.3                 | -0.53 |
| EKNJPF  |           | 430.3      | 10.0                 | 0.62  | 429.3      | 8.5                  | 0.55  |
| F2AU8V  | X         | 442.4      | 22.2                 | 1.38  | 454.1      | 33.3                 | 2.13  |
| F7WDQ4  |           | 426.4      | 6.1                  | 0.38  | 429.2      | 8.5                  | 0.54  |
| FLT27M  | X         | 405.5      | -14.7                | -0.92 | 422.0      | 1.3                  | 0.08  |
| FU7XZL  |           | 413.1      | -7.1                 | -0.44 | 414.5      | -6.2                 | -0.40 |
| GHV9WV  |           | 416.6      | -3.7                 | -0.23 | 415.8      | -4.9                 | -0.31 |
| H49YMH  | X         | 357.4      | -62.9                | -3.91 | 358.0      | -62.7                | -4.00 |
| H6YT3U  |           | 426.4      | 6.2                  | 0.38  | 429.0      | 8.3                  | 0.53  |
| H7HGTN  |           | 416.0      | -4.3                 | -0.27 | 416.6      | -4.1                 | -0.26 |
| HGVULN  | X         | 410.3      | -10.0                | -0.62 | 422.6      | 1.9                  | 0.12  |

**Plastics Interlaboratory Testing Program**  
**Analysis 720**  
**Flexural Modulus- ksi**

| WebCode | Data Flag | Sample J17 |                      |       | Sample J18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| HJF249  |           | 427.6      | 7.3                  | 0.46  | 427.4      | 6.7                  | 0.43  |
| HNB28V  |           | 421.8      | 1.5                  | 0.09  | 423.6      | 2.9                  | 0.19  |
| J2XJKZ  |           | 430.4      | 10.1                 | 0.63  | 433.1      | 12.4                 | 0.79  |
| JAMNE3  | *         | 459.6      | 39.3                 | 2.45  | 454.1      | 33.4                 | 2.13  |
| KDDPJK  |           | 409.4      | -10.9                | -0.68 | 411.8      | -8.9                 | -0.57 |
| KFAF3F  |           | 427.9      | 7.6                  | 0.47  | 427.8      | 7.1                  | 0.45  |
| KR2E3B  |           | 390.8      | -29.4                | -1.83 | 391.7      | -29.0                | -1.85 |
| LJJ279  |           | 414.9      | -5.3                 | -0.33 | 415.6      | -5.1                 | -0.33 |
| M3C2L8  | *         | 384.7      | -35.6                | -2.21 | 391.1      | -29.6                | -1.89 |
| MY8D8L  |           | 413.1      | -7.2                 | -0.45 | 419.7      | -1.0                 | -0.06 |
| N4Q3GG  |           | 449.8      | 29.5                 | 1.84  | 445.6      | 24.9                 | 1.59  |
| NB29ZJ  |           | 426.0      | 5.8                  | 0.36  | 426.4      | 5.6                  | 0.36  |
| NBQG9E  |           | 422.3      | 2.1                  | 0.13  | 423.0      | 2.3                  | 0.15  |
| PCPPHA  |           | 424.0      | 3.8                  | 0.23  | 425.4      | 4.7                  | 0.30  |
| PF3TUL  |           | 420.3      | 0.0                  | 0.00  | 419.6      | -1.1                 | -0.07 |
| PXXDF4  |           | 413.3      | -7.0                 | -0.44 | 413.4      | -7.4                 | -0.47 |
| QC68A7  |           | 424.9      | 4.6                  | 0.29  | 428.6      | 7.9                  | 0.50  |
| T7YR3H  |           | 398.0      | -22.3                | -1.39 | 394.7      | -26.0                | -1.66 |
| TDNLMH  |           | 413.7      | -6.6                 | -0.41 | 415.1      | -5.6                 | -0.36 |
| TLYUZC  |           | 415.4      | -4.9                 | -0.30 | 415.0      | -5.7                 | -0.36 |
| TX236Z  |           | 449.1      | 28.8                 | 1.79  | 448.1      | 27.4                 | 1.75  |
| VBGJT2  |           | 432.9      | 12.6                 | 0.78  | 436.8      | 16.1                 | 1.03  |
| VHD2WJ  | *         | 442.0      | 21.7                 | 1.35  | 447.8      | 27.1                 | 1.73  |
| WFTEAM  |           | 387.1      | -33.2                | -2.06 | 388.1      | -32.6                | -2.08 |
| WUPYTN  | X         | 439.4      | 19.1                 | 1.19  | 416.0      | -4.7                 | -0.30 |
| X8CP7W  |           | 431.1      | 10.8                 | 0.67  | 424.8      | 4.1                  | 0.26  |
| XYKJHH  |           | 398.8      | -21.5                | -1.34 | 397.9      | -22.8                | -1.46 |
| YNE34W  |           | 439.4      | 19.2                 | 1.19  | 437.9      | 17.2                 | 1.10  |
| YT6WYM  |           | 452.0      | 31.7                 | 1.97  | 448.4      | 27.7                 | 1.77  |

Analysis 720  
Flexural Modulus- ksi

## Summary Statistics

Grand Means

420.27 ksi

420.71 ksi

Std Dev Btwn Labs

16.07 ksi

15.66 ksi

Statistics based on 55 of 61 reporting participants

Sample J17: ABS/PC &amp; Sample J18: ABS/PC

**Comments on assigned Data Flags for Test #720**

9KY2TH (X) - Data for both samples are low.

F2AU8V (X) - Inconsistent in testing between samples.

FLT27M (X) - Inconsistent in testing between samples and inconsistent in testing within Sample J17.

H49YMH (X) - Data for both samples are low. Possible Systematic Error.

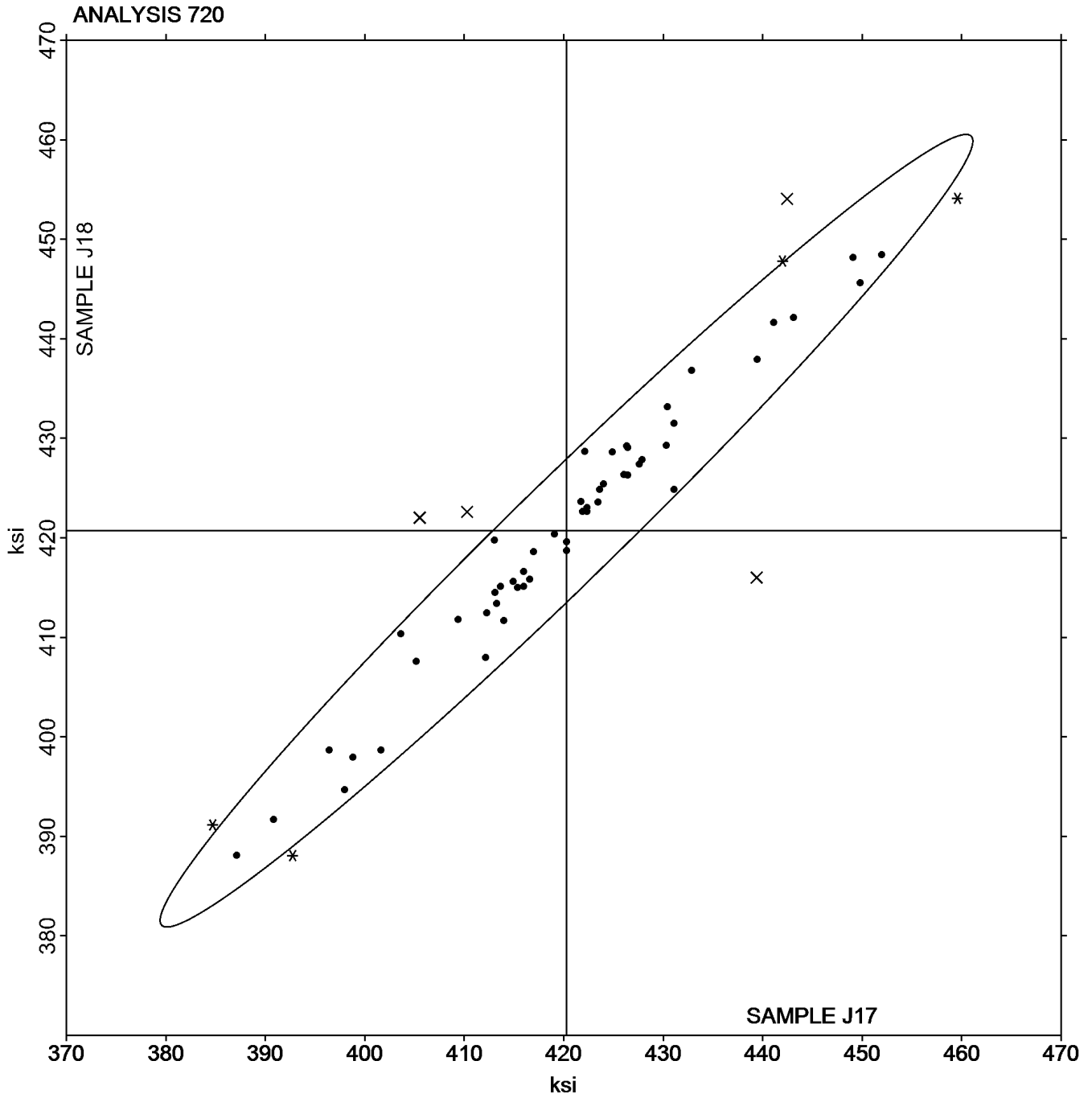
HGVULN (X) - Inconsistent in testing between samples.

WUPYTN (X) - Inconsistent in testing between samples and inconsistent in testing within Sample J18.



Analysis 720  
Flexural Modulus- ksi

Grand Mean Sample J17: 420.27 ksi    Grand Mean Sample J18: 420.71 ksi



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

## Analysis 721

## Flexural Stress at 5% Strain - psi

| WebCode | Data Flag | Sample J17 |                      |       | Sample J18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 2KTEXV  |           | 14,709     | 10                   | 0.02  | 15,012     | 279                  | 0.53  |
| 3E2L96  |           | 14,685     | -15                  | -0.03 | 14,628     | -106                 | -0.20 |
| 4JQEQB  |           | 14,843     | 144                  | 0.28  | 14,904     | 171                  | 0.33  |
| 6KPEQB  |           | 14,974     | 275                  | 0.53  | 15,130     | 396                  | 0.76  |
| 6WQRAE  |           | 14,937     | 238                  | 0.46  | 15,008     | 274                  | 0.52  |
| 7YPM4V  |           | 14,218     | -481                 | -0.93 | 14,105     | -629                 | -1.20 |
| 8CNKAA  |           | 14,781     | 82                   | 0.16  | 15,006     | 272                  | 0.52  |
| A34KJ3  |           | 15,028     | 329                  | 0.64  | 14,954     | 220                  | 0.42  |
| AGM4JR  |           | 14,956     | 257                  | 0.50  | 14,988     | 255                  | 0.49  |
| AMPCPU  |           | 14,600     | -99                  | -0.19 | 14,592     | -142                 | -0.27 |
| B9B4AW  |           | 13,700     | -999                 | -1.93 | 13,740     | -994                 | -1.90 |
| BPDEZ2  |           | 14,550     | -149                 | -0.29 | 14,547     | -186                 | -0.36 |
| BZWVN2  |           | 15,025     | 326                  | 0.63  | 15,026     | 293                  | 0.56  |
| CNBH VH |           | 14,778     | 79                   | 0.15  | 14,655     | -78                  | -0.15 |
| CYLGBJ  |           | 15,026     | 327                  | 0.63  | 14,977     | 244                  | 0.46  |
| E3FUNT  |           | 14,122     | -577                 | -1.12 | 14,066     | -667                 | -1.27 |
| EFQ7GH  |           | 14,185     | -514                 | -0.99 | 14,223     | -511                 | -0.98 |
| EY4L79  | *         | 15,262     | 563                  | 1.09  | 14,977     | 243                  | 0.46  |
| EYB2Y8  |           | 14,618     | -81                  | -0.16 | 14,689     | -45                  | -0.09 |
| G92QWL  | *         | 14,224     | -475                 | -0.92 | 14,583     | -151                 | -0.29 |
| GYWQM4  | *         | 13,202     | -1,497               | -2.90 | 13,211     | -1,523               | -2.91 |
| HD9AD6  |           | 15,321     | 622                  | 1.20  | 15,344     | 611                  | 1.16  |
| HXXF2W  |           | 14,782     | 83                   | 0.16  | 14,801     | 67                   | 0.13  |
| JJKRXX  |           | 14,252     | -447                 | -0.86 | 14,270     | -464                 | -0.88 |
| JPXL9D  |           | 14,140     | -559                 | -1.08 | 14,120     | -614                 | -1.17 |
| KX28DB  |           | 14,876     | 177                  | 0.34  | 14,872     | 138                  | 0.26  |
| LY8CHV  |           | 14,706     | 7                    | 0.01  | 14,679     | -55                  | -0.10 |
| LZRFPJ  |           | 14,863     | 164                  | 0.32  | 15,023     | 290                  | 0.55  |
| MUHYV9  | *         | 15,444     | 745                  | 1.44  | 15,196     | 462                  | 0.88  |
| NHBF4T  |           | 13,900     | -799                 | -1.55 | 13,899     | -834                 | -1.59 |
| NRJFWY  |           | 14,828     | 129                  | 0.25  | 14,985     | 251                  | 0.48  |
| P9NVFZ  |           | 14,731     | 32                   | 0.06  | 14,743     | 9                    | 0.02  |

Analysis 721  
Flexural Stress at 5% Strain - psi

| WebCode | Data Flag | Sample J17 |                      |       | Sample J18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| PPZR8G  |           | 15,095     | 395                  | 0.77  | 15,129     | 395                  | 0.75  |
| PULNMJ  |           | 13,600     | -1,099               | -2.13 | 13,700     | -1,034               | -1.97 |
| PZ8C2X  | *         | 16,033     | 1,333                | 2.58  | 16,105     | 1,371                | 2.62  |
| TAC78F  |           | 14,628     | -71                  | -0.14 | 14,577     | -157                 | -0.30 |
| TYQMGX  | X         | 10,737     | -3,962               | -7.66 | 10,754     | -3,980               | -7.59 |
| UNLG2C  |           | 14,483     | -216                 | -0.42 | 14,639     | -94                  | -0.18 |
| UQLBD4  |           | 14,557     | -143                 | -0.28 | 14,484     | -250                 | -0.48 |
| UYTMD2  |           | 14,423     | -276                 | -0.53 | 14,408     | -326                 | -0.62 |
| VULAKA  |           | 14,992     | 293                  | 0.57  | 15,037     | 303                  | 0.58  |
| VWRC93  |           | 15,000     | 301                  | 0.58  | 15,131     | 397                  | 0.76  |
| W3BEPF  |           | 14,902     | 203                  | 0.39  | 15,235     | 501                  | 0.96  |
| XFJ7VK  | X         | 13,901     | -799                 | -1.54 | 13,218     | -1,516               | -2.89 |
| XQEFVY  |           | 15,396     | 697                  | 1.35  | 15,511     | 777                  | 1.48  |
| YDJP97  |           | 14,558     | -141                 | -0.27 | 14,570     | -164                 | -0.31 |
| ZE7VWR  |           | 15,493     | 794                  | 1.54  | 15,536     | 802                  | 1.53  |
| ZNEBX3  |           | 14,733     | 34                   | 0.07  | 14,738     | 4                    | 0.01  |

| Summary Statistics                                  |                                |
|---|--------------------------------|
| Grand Means   | 14,699.1 psi      14,733.8 psi |
| Stnd Dev Btwn Labs                                  | 516.9 psi      524.3 psi       |
| Statistics based on 46 of 48 reporting participants |                                |

Sample J17: ABS/PC & Sample J18: ABS/PC

**Comments on assigned Data Flags for Test #721**

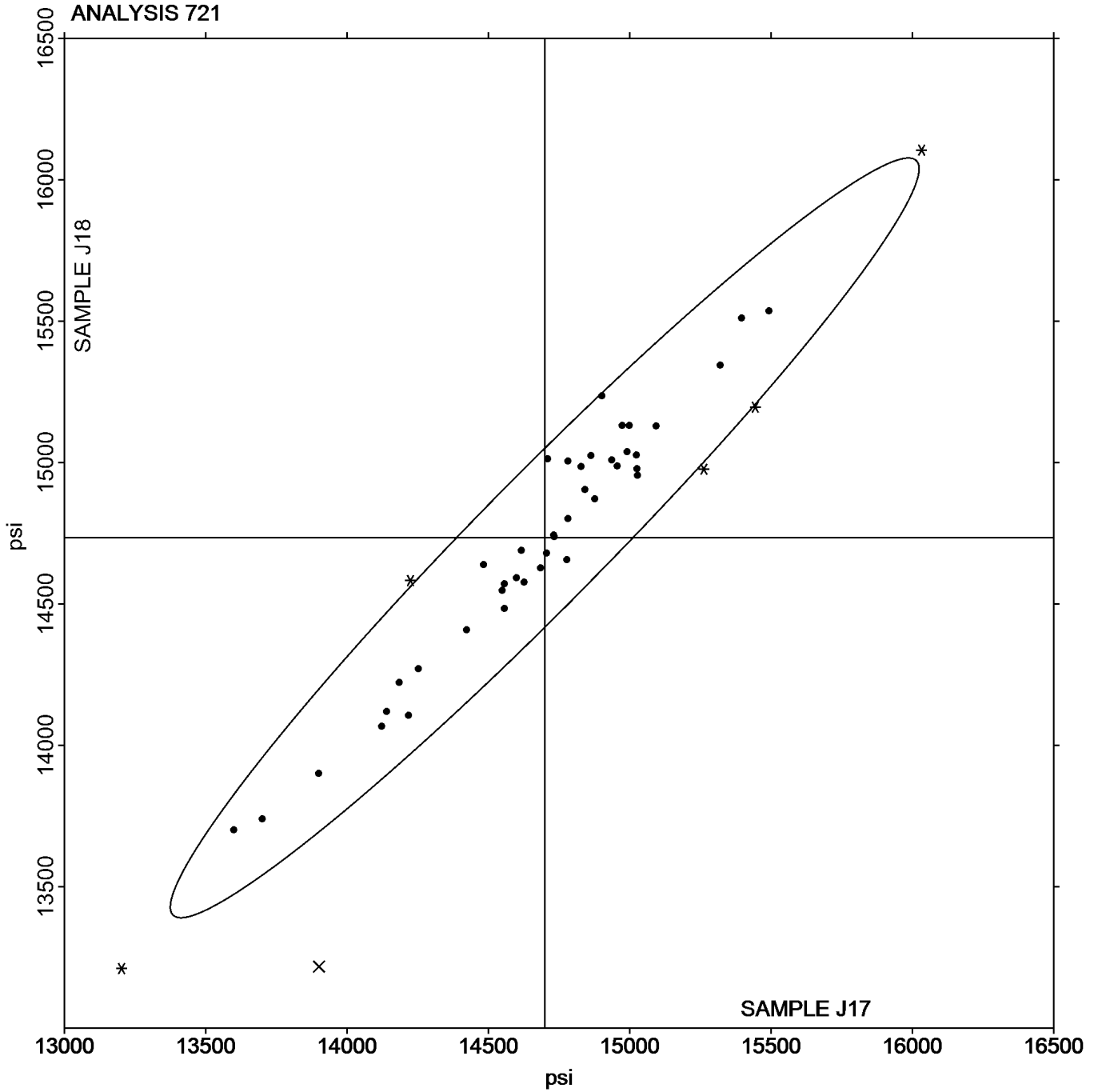
TYQMGX (X) - Data for both samples are low.

XFJ7VK (X) - Inconsistent in testing between samples, data for Sample J18 are low. Also Inconsistent in testing within both samples.

Analysis 721

Flexural Stress at 5% Strain - psi

Grand Mean Sample J17: 14,699.13 psi    Grand Mean Sample J18: 14,733.76 psi



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

**Plastics Interlaboratory Testing Program**  
**Analysis 722**  
**Flexural Stress at Yield - psi**

| WebCode | Data Flag | Sample J17 |                      |       | Sample J18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 2AMQF6  |           | 14,872     | 200                  | 0.44  | 15,037     | 330                  | 0.72  |
| 3BBG86  |           | 14,784     | 112                  | 0.25  | 14,811     | 103                  | 0.22  |
| 3GMLWC  |           | 14,858     | 186                  | 0.41  | 14,927     | 220                  | 0.48  |
| 3KNF2V  |           | 14,180     | -492                 | -1.09 | 14,140     | -567                 | -1.23 |
| 4BNAY7  |           | 14,560     | -112                 | -0.25 | 14,643     | -65                  | -0.14 |
| 6X69N6  |           | 13,700     | -972                 | -2.15 | 13,760     | -947                 | -2.06 |
| 7JZGZE  |           | 15,000     | 328                  | 0.72  | 15,057     | 350                  | 0.76  |
| 7L8PL4  |           | 13,600     | -1,072               | -2.37 | 13,700     | -1,007               | -2.19 |
| 8MBXVB  | X         | 13,917     | -755                 | -1.67 | 13,280     | -1,427               | -3.11 |
| 9367KA  |           | 14,252     | -420                 | -0.93 | 14,270     | -437                 | -0.95 |
| AA46KX  |           | 15,170     | 498                  | 1.10  | 15,186     | 479                  | 1.04  |
| AEYPTN  |           | 14,432     | -240                 | -0.53 | 14,422     | -286                 | -0.62 |
| AWMVF2  |           | 15,059     | 387                  | 0.86  | 15,212     | 505                  | 1.10  |
| B2H67R  |           | 14,218     | -454                 | -1.00 | 14,105     | -602                 | -1.31 |
| CKWLMP  |           | 14,561     | -111                 | -0.25 | 14,488     | -219                 | -0.48 |
| D8FA8N  |           | 14,707     | 35                   | 0.08  | 15,026     | 319                  | 0.69  |
| D96T3W  |           | 14,218     | -454                 | -1.00 | 14,140     | -567                 | -1.23 |
| DDQTUZ  |           | 14,787     | 115                  | 0.25  | 14,633     | -74                  | -0.16 |
| EWYC9J  |           | 14,866     | 195                  | 0.43  | 14,872     | 165                  | 0.36  |
| F34NJ7  | *         | 13,403     | -1,269               | -2.80 | 13,448     | -1,259               | -2.74 |
| FFJC7Q  |           | 15,098     | 426                  | 0.94  | 15,133     | 426                  | 0.93  |
| GKXTG4  |           | 15,468     | 796                  | 1.76  | 15,210     | 503                  | 1.09  |
| HBXAB7  |           | 14,606     | -66                  | -0.15 | 14,673     | -34                  | -0.07 |
| HW9H2Q  |           | 14,570     | -102                 | -0.23 | 14,596     | -111                 | -0.24 |
| JGGH3A  | X         | 10,947     | -3,725               | -8.23 | 10,956     | -3,751               | -8.17 |
| JRWW2K  |           | 15,000     | 328                  | 0.72  | 15,023     | 316                  | 0.69  |
| KPKPMW  |           | 14,737     | 65                   | 0.14  | 14,615     | -92                  | -0.20 |
| MFKJUL  |           | 14,390     | -282                 | -0.62 | 14,686     | -21                  | -0.05 |
| MVZ6BG  |           | 15,058     | 386                  | 0.85  | 15,075     | 368                  | 0.80  |
| MY28DP  |           | 14,654     | -18                  | -0.04 | 14,602     | -105                 | -0.23 |
| NFDTU4  |           | 14,764     | 92                   | 0.20  | 14,762     | 55                   | 0.12  |
| NH7QGJ  |           | 14,679     | 7                    | 0.02  | 14,589     | -119                 | -0.26 |

Analysis 722  
Flexural Stress at Yield - psi

| WebCode | Data Flag | Sample J17 |                      |       | Sample J18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| P7DV3T  |           | 13,915     | -757                 | -1.67 | 13,915     | -792                 | -1.73 |
| PBNXDN  |           | 14,632     | -40                  | -0.09 | 14,605     | -102                 | -0.22 |
| RBQDVH  |           | 14,632     | -40                  | -0.09 | 14,583     | -124                 | -0.27 |
| RCA2U8  |           | 15,013     | 341                  | 0.75  | 15,146     | 439                  | 0.96  |
| RX8JT7  |           | 14,722     | 50                   | 0.11  | 15,036     | 329                  | 0.72  |
| UDQ3HW  |           | 15,420     | 748                  | 1.65  | 15,413     | 706                  | 1.54  |
| UMJC73  |           | 14,407     | -265                 | -0.58 | 14,300     | -407                 | -0.89 |
| UZN2ZB  |           | 14,247     | -425                 | -0.94 | 14,618     | -89                  | -0.19 |
| VJZ82H  |           | 15,129     | 457                  | 1.01  | 15,118     | 411                  | 0.89  |
| VTYEMT  | *         | 15,360     | 688                  | 1.52  | 14,980     | 273                  | 0.59  |
| X66AKZ  |           | 14,194     | -478                 | -1.06 | 14,237     | -470                 | -1.02 |
| XD67N9  |           | 14,620     | -52                  | -0.12 | 14,609     | -98                  | -0.21 |
| XMUR9Y  |           | 14,896     | 224                  | 0.49  | 14,855     | 147                  | 0.32  |
| YDNCYG  |           | 14,992     | 320                  | 0.71  | 15,142     | 435                  | 0.95  |
| YEHWUY  |           | 15,406     | 734                  | 1.62  | 15,537     | 829                  | 1.81  |
| YP3Q6J  |           | 14,786     | 114                  | 0.25  | 15,008     | 301                  | 0.66  |
| Z7X43P  | X         | 16,447     | 1,775                | 3.92  | 16,445     | 1,737                | 3.78  |
| ZDEEXH  |           | 14,715     | 43                   | 0.10  | 14,689     | -18                  | -0.04 |
| ZDXMZD  | *         | 14,920     | 248                  | 0.55  | 15,316     | 608                  | 1.32  |

| Summary Statistics                                  |                                |
|---|--------------------------------|
| Grand Means   | 14,672.0 psi      14,707.3 psi |
| Stnd Dev Btwn Labs                                  | 452.6 psi      459.4 psi       |
| Statistics based on 48 of 51 reporting participants |                                |

Sample J17: ABS/PC & Sample J18: ABS/PC

**Comments on assigned Data Flags for Test #722**

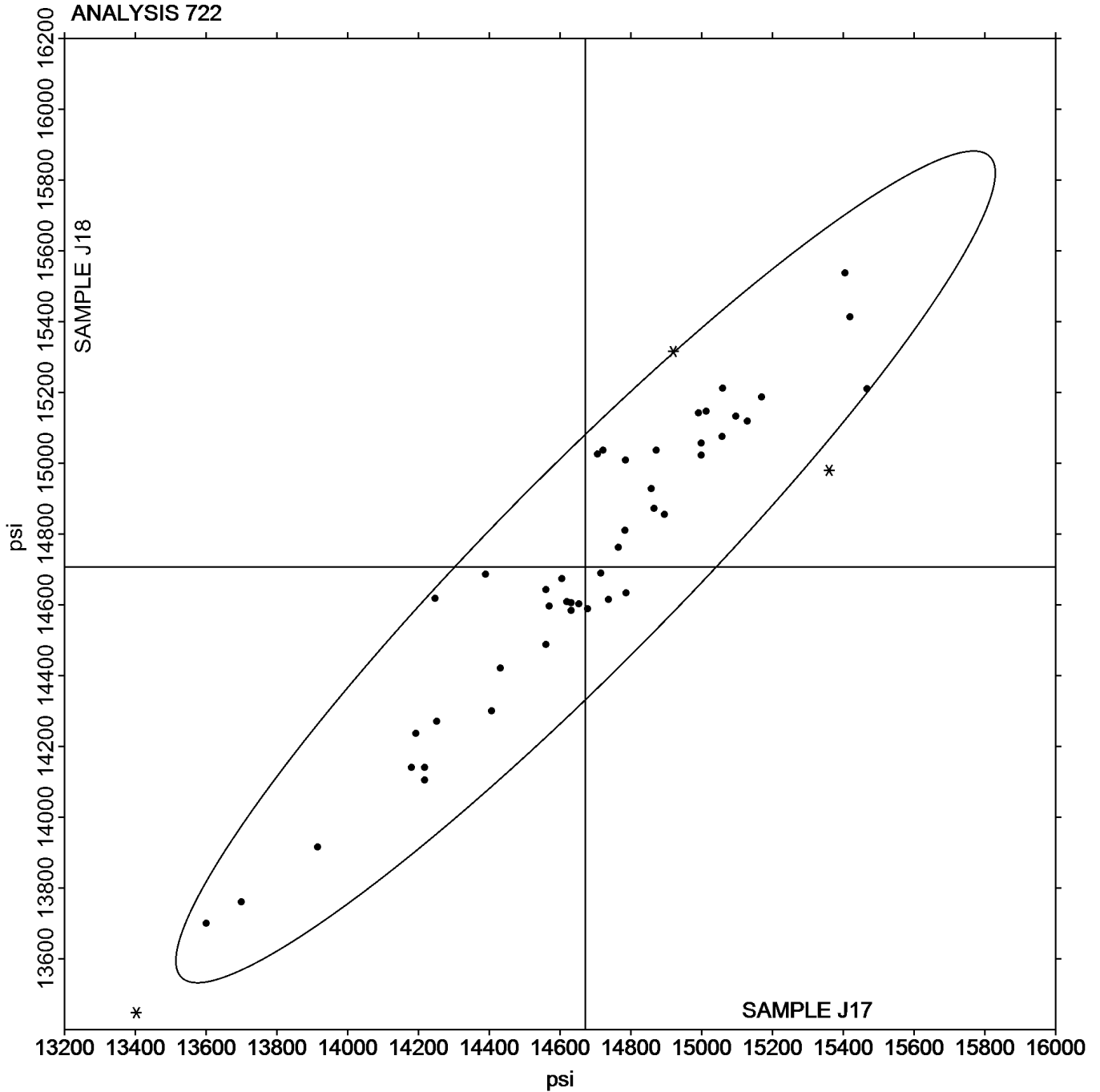
8MBXVB (X) - Inconsistent in testing between samples, data for Sample J18 are low. Also Inconsistent in testing within both samples.

JGGH3A (X) - Data for both samples are low.

Z7X43P (X) - Data for both samples are high. Possible systematic error.

Analysis 722  
Flexural Stress at Yield - psi

Grand Mean Sample J17: 14,671.97 psi    Grand Mean Sample J18: 14,707.25 psi



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

**Plastics Interlaboratory Testing Program**  
**Analysis 736**  
**Flexural Modulus - MPa**

| WebCode | Data Flag | Sample K17 |                      |       | Sample K18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 2F26UQ  |           | 2,658      | -188                 | -1.71 | 2,689      | -128                 | -1.36 |
| 3LHV8Q  |           | 2,966      | 120                  | 1.09  | 2,876      | 59                   | 0.62  |
| 4MNZD8  |           | 2,781      | -65                  | -0.59 | 2,868      | 51                   | 0.54  |
| 4ZTUT2  |           | 2,876      | 30                   | 0.27  | 2,940      | 123                  | 1.30  |
| 67WQMM  |           | 2,768      | -78                  | -0.71 | 2,714      | -103                 | -1.10 |
| 6AVUQ3  |           | 2,753      | -93                  | -0.85 | 2,722      | -96                  | -1.01 |
| 6GF432  |           | 2,790      | -56                  | -0.51 | 2,744      | -73                  | -0.78 |
| 6PJRQP  |           | 2,940      | 94                   | 0.85  | 2,882      | 65                   | 0.69  |
| 7837D4  |           | 2,616      | -230                 | -2.09 | 2,647      | -170                 | -1.80 |
| 8CZVZV  |           | 2,743      | -102                 | -0.93 | 2,723      | -95                  | -1.00 |
| 8HRF79  |           | 2,689      | -157                 | -1.43 | 2,668      | -149                 | -1.59 |
| 8W343Z  |           | 2,839      | -7                   | -0.06 | 2,844      | 27                   | 0.28  |
| 933JYN  |           | 2,753      | -93                  | -0.85 | 2,730      | -87                  | -0.92 |
| 97NKCL  |           | 2,820      | -26                  | -0.24 | 2,827      | 10                   | 0.10  |
| 9Y9XKX  |           | 3,059      | 213                  | 1.94  | 3,040      | 223                  | 2.37  |
| BLUQFG  |           | 3,021      | 175                  | 1.59  | 2,988      | 171                  | 1.82  |
| BW8DKW  |           | 2,855      | 9                    | 0.08  | 2,823      | 6                    | 0.06  |
| CUUWZU  |           | 2,874      | 28                   | 0.25  | 2,837      | 19                   | 0.21  |
| D76MJC  |           | 2,755      | -91                  | -0.83 | 2,764      | -53                  | -0.56 |
| E6XB2Y  | X         | 7,346      | 4,500                | 40.91 | 7,152      | 4,334                | 46.03 |
| EWGJ9Q  |           | 2,696      | -150                 | -1.36 | 2,669      | -148                 | -1.57 |
| F29MH2  |           | 2,993      | 147                  | 1.34  | 2,888      | 71                   | 0.76  |
| F2C6XD  | *         | 3,041      | 195                  | 1.77  | 2,860      | 42                   | 0.45  |
| F2ZUDZ  |           | 2,967      | 121                  | 1.10  | 2,929      | 112                  | 1.19  |
| FPDC7N  |           | 2,794      | -52                  | -0.47 | 2,772      | -46                  | -0.48 |
| GZB8QE  |           | 2,768      | -78                  | -0.71 | 2,832      | 15                   | 0.16  |
| HP4QM4  |           | 2,844      | -2                   | -0.02 | 2,779      | -38                  | -0.40 |
| HUDMWQ  |           | 2,880      | 34                   | 0.31  | 2,820      | 3                    | 0.03  |
| JJNEKV  |           | 2,989      | 143                  | 1.30  | 2,918      | 101                  | 1.07  |
| JKEMAG  |           | 2,980      | 134                  | 1.22  | 2,853      | 36                   | 0.38  |
| K4FDV3  |           | 2,889      | 43                   | 0.39  | 2,952      | 135                  | 1.43  |
| KNQAPK  |           | 2,889      | 43                   | 0.39  | 2,900      | 83                   | 0.88  |



**Plastics Interlaboratory Testing Program**  
**Analysis 736**  
**Flexural Modulus - MPa**

| WebCode | Data Flag | Sample K17 |                      |        | Sample K18 |                      |        |
|---------|-----------|------------|----------------------|--------|------------|----------------------|--------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV    | Lab Mean   | Diff from Grand Mean | CPV    |
| KYYUCG  | X         | 1,514      | -1,332               | -12.11 | 1,525      | -1,292               | -13.72 |
| LKBJCC  | X         | 2,228      | -618                 | -5.62  | 2,160      | -657                 | -6.98  |
| LXYRNJ  |           | 2,894      | 49                   | 0.44   | 2,819      | 2                    | 0.02   |
| MWG4XA  |           | 2,733      | -112                 | -1.02  | 2,659      | -158                 | -1.68  |
| NXCKVC  |           | 2,848      | 2                    | 0.02   | 2,789      | -28                  | -0.30  |
| QCPZYU  |           | 2,884      | 38                   | 0.35   | 2,839      | 22                   | 0.24   |
| VK9QWZ  |           | 2,710      | -136                 | -1.24  | 2,723      | -94                  | -1.00  |
| XWHJJ2  |           | 2,941      | 95                   | 0.86   | 2,841      | 24                   | 0.25   |
| YB62EL  |           | 2,883      | 37                   | 0.33   | 2,843      | 26                   | 0.27   |
| YZUH4V  |           | 2,812      | -34                  | -0.31  | 2,856      | 39                   | 0.42   |

**Summary Statistics**

Grand Means

2,845.9 MPa

2,817.2 MPa

Std Dev Btwn Labs

110.0 MPa

94.2 MPa

Statistics based on 39 of 42 reporting participants

Sample K17: ABS/PC &amp; Sample K18: ABS/PC

**Comments on assigned Data Flags for Test #736**

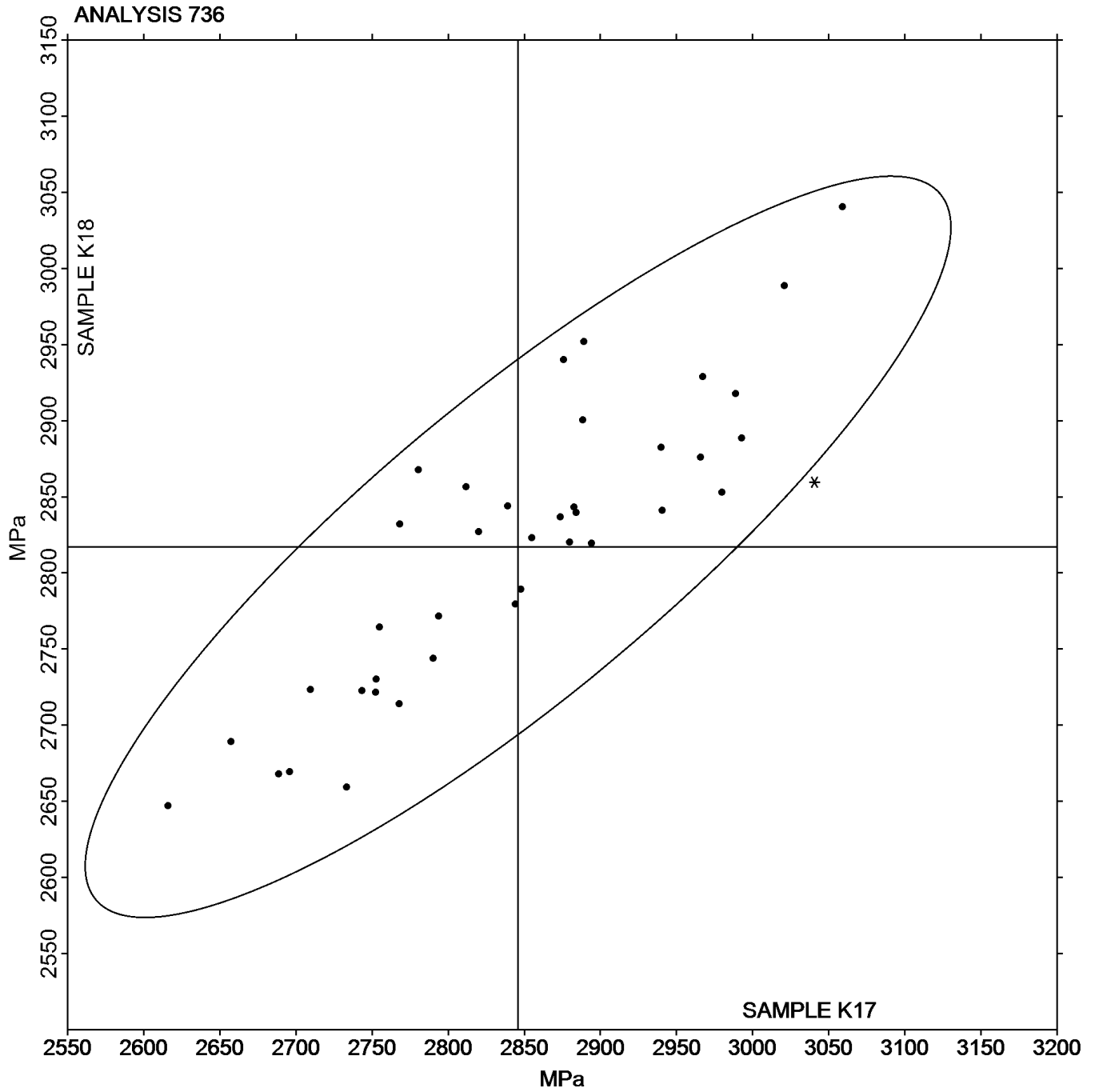
E6XB2Y (X) - Data for both samples are high. Inconsistent in testing within both samples.

KYYUCG (X) - Data for both samples are low.

LKBJCC (X) - Data for both samples are low.

Analysis 736  
Flexural Modulus - MPa

Grand Mean Sample K17: 2,845.87 MPa    Grand Mean Sample K18: 2,817.16 MPa



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

## Plastics Interlaboratory Testing Program

## Analysis 737

## Flexural Stress at 3.5% Strain - MPa

| WebCode | Data Flag | Sample K17 |                      |       | Sample K18 |                      |       |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |
| 2JPAJ6  |           | 92.29      | 1.12                 | 0.41  | 90.99      | 1.60                 | 0.80  |
| 3V6NY6  |           | 88.15      | -3.02                | -1.11 | 85.91      | -3.49                | -1.74 |
| 43UE7U  |           | 90.56      | -0.61                | -0.22 | 88.81      | -0.59                | -0.29 |
| 6P7AT4  |           | 88.39      | -2.77                | -1.01 | 87.57      | -1.82                | -0.91 |
| 6XJR66  |           | 91.17      | 0.00                 | 0.00  | 88.67      | -0.73                | -0.36 |
| 7JRHV6  |           | 92.18      | 1.01                 | 0.37  | 89.92      | 0.53                 | 0.26  |
| 9PUWM3  |           | 88.10      | -3.07                | -1.12 | 88.15      | -1.25                | -0.62 |
| 9ZYQ6P  |           | 92.87      | 1.70                 | 0.62  | 90.26      | 0.86                 | 0.43  |
| A8F7BV  |           | 90.91      | -0.26                | -0.10 | 90.16      | 0.77                 | 0.38  |
| AL2H6K  |           | 92.14      | 0.97                 | 0.35  | 89.67      | 0.27                 | 0.14  |
| BQBWDH  | *         | 85.71      | -5.45                | -2.00 | 88.33      | -1.07                | -0.53 |
| BTXU2U  |           | 92.65      | 1.49                 | 0.54  | 90.55      | 1.15                 | 0.58  |
| CVLUI9  |           | 89.77      | -1.40                | -0.51 | 87.84      | -1.56                | -0.78 |
| D3RPGF  |           | 93.26      | 2.09                 | 0.76  | 91.94      | 2.54                 | 1.27  |
| DLD87N  |           | 89.66      | -1.51                | -0.55 | 87.12      | -2.28                | -1.14 |
| DLGAVF  |           | 91.85      | 0.68                 | 0.25  | 89.61      | 0.22                 | 0.11  |
| G67X6E  |           | 96.19      | 5.02                 | 1.84  | 93.98      | 4.58                 | 2.29  |
| HNAK4Z  |           | 90.39      | -0.78                | -0.29 | 89.88      | 0.48                 | 0.24  |
| KMPQZE  | *         | 98.04      | 6.87                 | 2.51  | 95.16      | 5.77                 | 2.88  |
| L2QYX2  |           | 92.19      | 1.02                 | 0.37  | 89.70      | 0.30                 | 0.15  |
| L3A9CW  |           | 86.99      | -4.17                | -1.53 | 85.81      | -3.58                | -1.79 |
| LD3WQM  |           | 89.95      | -1.21                | -0.44 | 88.52      | -0.88                | -0.44 |
| MEFZ2K  |           | 94.40      | 3.24                 | 1.18  | 90.65      | 1.26                 | 0.63  |
| NEXRPH  |           | 95.13      | 3.96                 | 1.45  | 91.93      | 2.53                 | 1.27  |
| RPRWQ4  |           | 90.07      | -1.10                | -0.40 | 90.05      | 0.65                 | 0.33  |
| TK6DGL  | *         | 94.48      | 3.32                 | 1.21  | 88.12      | -1.28                | -0.64 |
| URXHU3  |           | 87.86      | -3.31                | -1.21 | 89.38      | -0.02                | -0.01 |
| V3AAQ7  |           | 92.30      | 1.13                 | 0.41  | 89.00      | -0.40                | -0.20 |
| WC2XD6  |           | 92.60      | 1.43                 | 0.52  | 89.25      | -0.15                | -0.07 |
| WPFWN9  |           | 90.98      | -0.19                | -0.07 | 88.84      | -0.56                | -0.28 |
| XKWA8T  |           | 87.00      | -4.17                | -1.52 | 86.69      | -2.70                | -1.35 |
| XYYEWM  |           | 90.49      | -0.68                | -0.25 | 90.01      | 0.62                 | 0.31  |

**Plastics Interlaboratory Testing Program**  
**Analysis 737**  
**Flexural Stress at 3.5% Strain - MPa**

| WebCode | Data Flag | Sample K17 |                      |        | Sample K18 |                      |        |
|---------|-----------|------------|----------------------|--------|------------|----------------------|--------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV    | Lab Mean   | Diff from Grand Mean | CPV    |
| YAD2B9  |           | 89.82      | -1.35                | -0.49  | 87.57      | -1.83                | -0.91  |
| ZAMWB3  | X         | 44.49      | -46.68               | -17.08 | 43.48      | -45.92               | -22.92 |
| ZGUZDH  | X         | 102.13     | 10.96                | 4.01   | 99.06      | 9.66                 | 4.82   |

| Summary Statistics                                  |            |  |            |
|---|------------|--|------------|
| Grand Means   | 91.168 MPa |  | 89.395 MPa |
| Stnd Dev Btwn Labs                                  | 2.733 MPa  |  | 2.004 MPa  |
| Statistics based on 33 of 35 reporting participants |            |  |            |

Sample K17: ABS/PC & Sample K18: ABS/PC

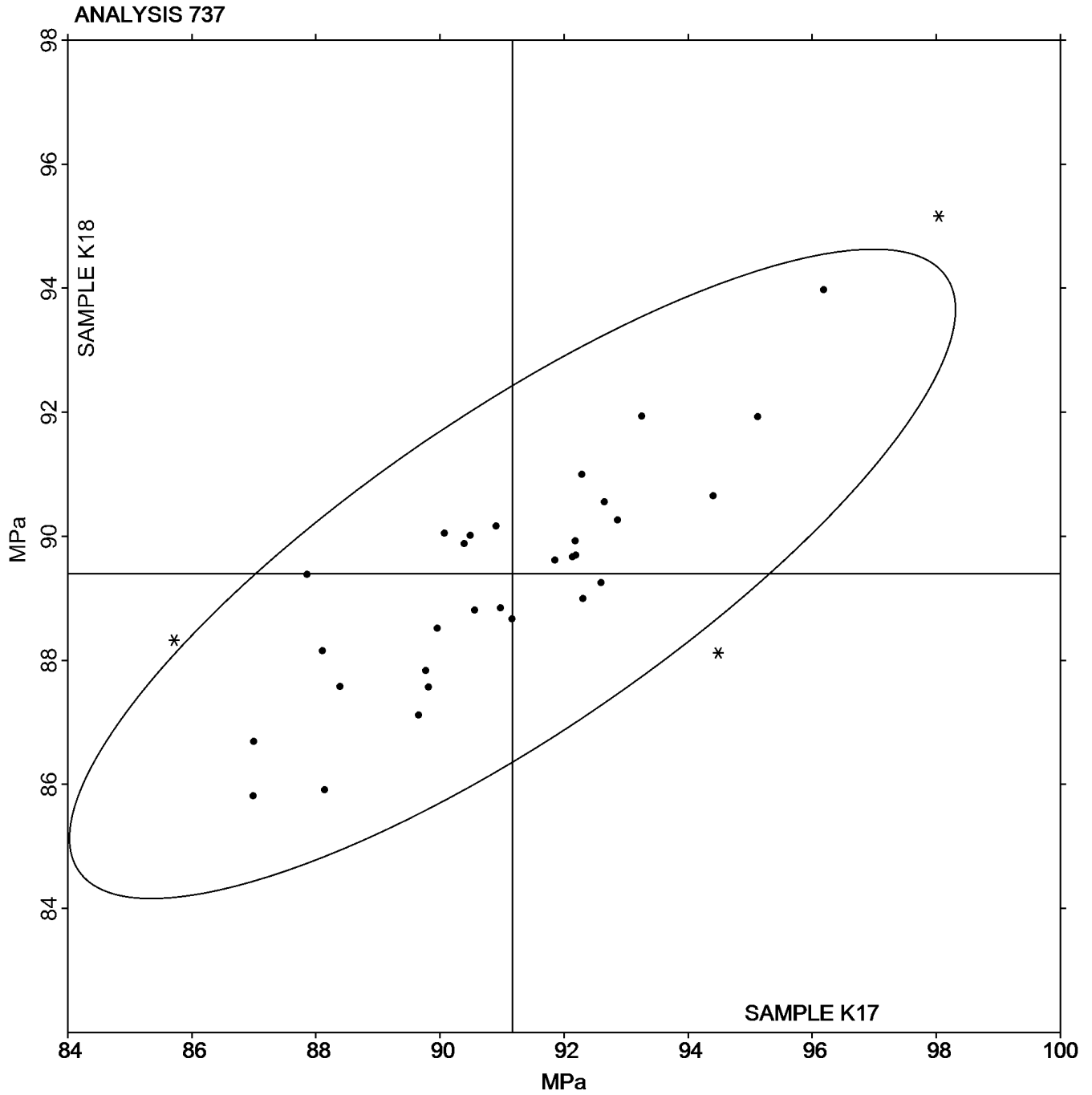
**Comments on assigned Data Flags for Test #737**

ZAMWB3 (X) - Data for both samples are low.

ZGUZDH (X) - Data for both samples are high. Also Inconsistent in testing within Sample K17.

Analysis 737  
Flexural Stress at 3.5% Strain - MPa

Grand Mean Sample K17: 91.168 MPa    Grand Mean Sample K18: 89.395 MPa



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

## Plastics Interlaboratory Testing Program

## Analysis 738

## Flexural Stress at Yield - MPa

| WebCode | Data Flag | Sample K17 |                      |        | Sample K18 |                      |        |
|---------|-----------|------------|----------------------|--------|------------|----------------------|--------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV    | Lab Mean   | Diff from Grand Mean | CPV    |
| 4UNE2J  |           | 96.84      | -2.81                | -1.40  | 96.08      | -1.56                | -1.00  |
| 8LCVQR  |           | 101.70     | 2.06                 | 1.03   | 98.89      | 1.25                 | 0.80   |
| 8RPF7   |           | 100.23     | 0.58                 | 0.29   | 99.01      | 1.37                 | 0.88   |
| 8YM9GP  |           | 99.16      | -0.49                | -0.24  | 98.54      | 0.91                 | 0.58   |
| 9DXADD  |           | 99.41      | -0.24                | -0.12  | 96.80      | -0.84                | -0.54  |
| AF9FKW  |           | 99.82      | 0.17                 | 0.09   | 97.50      | -0.14                | -0.09  |
| CE9J8V  |           | 97.57      | -2.07                | -1.04  | 97.85      | 0.21                 | 0.13   |
| CLW94Q  |           | 100.77     | 1.13                 | 0.56   | 97.83      | 0.19                 | 0.12   |
| CQG2LW  |           | 97.63      | -2.02                | -1.01  | 94.34      | -3.30                | -2.12  |
| D2H43Q  |           | 103.24     | 3.59                 | 1.80   | 99.35      | 1.71                 | 1.10   |
| EQUHMY  |           | 98.82      | -0.83                | -0.41  | 97.45      | -0.19                | -0.12  |
| FDXLBT  |           | 98.65      | -1.00                | -0.50  | 95.94      | -1.69                | -1.09  |
| JBERYT  |           | 99.78      | 0.14                 | 0.07   | 97.18      | -0.45                | -0.29  |
| JL4W7D  |           | 102.44     | 2.79                 | 1.39   | 98.38      | 0.74                 | 0.48   |
| JMZPJN  |           | 100.91     | 1.26                 | 0.63   | 99.56      | 1.92                 | 1.23   |
| KUPYK3  |           | 96.65      | -3.00                | -1.50  | 96.02      | -1.62                | -1.04  |
| L89G6G  |           | 98.38      | -1.27                | -0.63  | 95.98      | -1.66                | -1.07  |
| LW9EN2  |           | 98.37      | -1.28                | -0.64  | 96.10      | -1.54                | -0.99  |
| NGE44L  |           | 97.14      | -2.51                | -1.26  | 96.06      | -1.57                | -1.01  |
| P73R6N  |           | 99.96      | 0.31                 | 0.15   | 97.90      | 0.26                 | 0.17   |
| QVPKY9  |           | 102.68     | 3.03                 | 1.52   | 99.86      | 2.22                 | 1.43   |
| QYRYPR  |           | 98.24      | -1.41                | -0.71  | 96.60      | -1.04                | -0.67  |
| R7X323  |           | 101.64     | 1.99                 | 1.00   | 99.19      | 1.55                 | 1.00   |
| TBM6DX  | X         | 90.22      | -9.43                | -4.72  | 90.22      | -7.42                | -4.76  |
| U4EJR9  | X         | 49.04      | -50.61               | -25.31 | 48.05      | -49.59               | -31.85 |
| UE4NCP  |           | 102.13     | 2.48                 | 1.24   | 99.06      | 1.42                 | 0.91   |
| UQRNPE  |           | 101.47     | 1.83                 | 0.91   | 99.78      | 2.14                 | 1.38   |
| V8QFNB  |           | 101.98     | 2.33                 | 1.17   | 99.16      | 1.52                 | 0.98   |
| XJCX9K  |           | 96.18      | -3.47                | -1.74  | 94.43      | -3.21                | -2.06  |
| YNGFHX  | X         | 87.65      | -12.00               | -6.00  | 86.79      | -10.85               | -6.97  |
| YQBCXZ  |           | 100.42     | 0.77                 | 0.38   | 97.92      | 0.28                 | 0.18   |
| ZBBD6G  | X         | 94.43      | -5.21                | -2.61  | 88.84      | -8.80                | -5.65  |

## Analysis 738

## Flexural Stress at Yield - MPa

| WebCode | Data Flag | Sample K17 |                      |       | Sample K18 |                      |      |
|---------|-----------|------------|----------------------|-------|------------|----------------------|------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV  |
| ZMLHZX  | *         | 97.59      | -2.06                | -1.03 | 98.75      | 1.11                 | 0.71 |

## Summary Statistics

Grand Means

99.648 MPa

97.638 MPa

Std Dev Btwn Labs

2.000 MPa

1.557 MPa

Statistics based on 29 of 33 reporting participants

Sample K17: ABS/PC &amp; Sample K18: ABS/PC

**Comments on assigned Data Flags for Test #738**

TBM6DX (X) - Data for both samples are low. Also Inconsistent in testing within K17.

U4EJR9 (X) - Data for both samples are low.

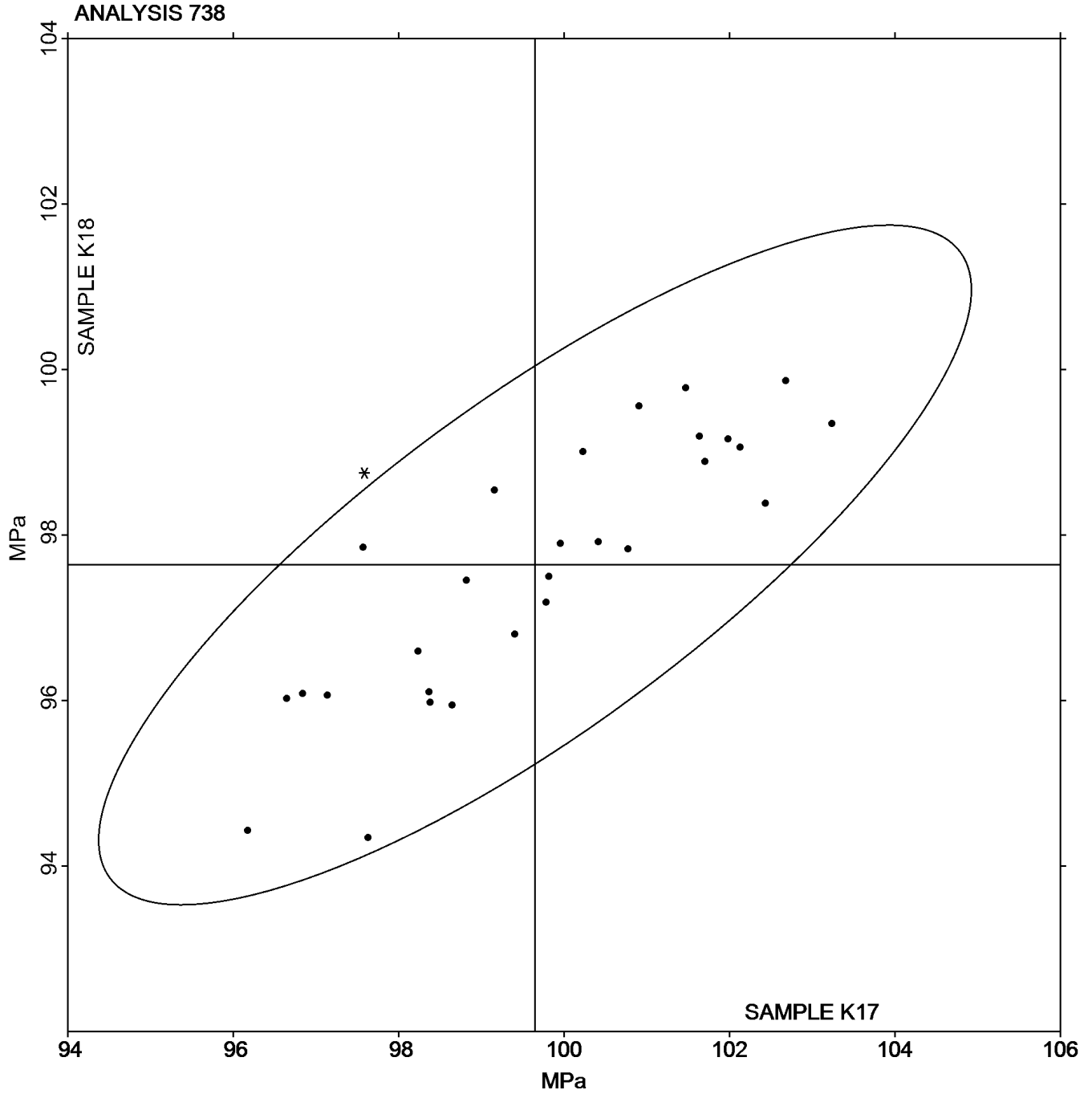
YNGFHX (X) - Data for both samples are low. Also Inconsistent in testing within Sample K17.

ZBBD6G (X) - Low data for Sample K18. Also Inconsistent in testing within Sample K18.

Analysis 738

Flexural Stress at Yield - MPa

Grand Mean Sample K17: 99.648 MPa    Grand Mean Sample K18: 97.638 MPa



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot



## Analysis 790

## Notched Izod Impact - ft.lbf/in

| WebCode | Data Flag | Sample S17 |                      |        | Sample S18 |                      |        | Instr Code |
|---------|-----------|------------|----------------------|--------|------------|----------------------|--------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV    | Lab Mean   | Diff from Grand Mean | CPV    |            |
| 2CGHQY  | *         | 2.89       | -0.02                | -0.10  | 3.18       | 0.28                 | 1.51   | TO         |
| 3CR2BB  | X         | 2.87       | -0.04                | -0.21  | 2.14       | -0.77                | -4.18  | TO         |
| 3F6MQ2  | *         | 2.83       | -0.08                | -0.41  | 2.54       | -0.37                | -2.01  | DS         |
| 3HMJNJ  |           | 2.84       | -0.07                | -0.37  | 2.94       | 0.04                 | 0.21   | XX         |
| 3U77FC  |           | 2.78       | -0.13                | -0.68  | 2.80       | -0.11                | -0.59  | TM         |
| 473FQM  |           | 2.67       | -0.24                | -1.31  | 2.65       | -0.26                | -1.41  | TO         |
| 4DJTBM  |           | 2.94       | 0.03                 | 0.17   | 2.78       | -0.13                | -0.69  | XX         |
| 4HQ2WX  |           | 2.78       | -0.12                | -0.67  | 2.80       | -0.11                | -0.58  | TY         |
| 64ZG7X  |           | 2.87       | -0.03                | -0.19  | 2.82       | -0.09                | -0.47  | TM         |
| 6JFB7L  |           | 2.70       | -0.21                | -1.12  | 2.68       | -0.23                | -1.24  | WY         |
| 6N2GCA  |           | 2.73       | -0.18                | -0.95  | 2.72       | -0.19                | -1.03  | BA         |
| 6XF4QG  |           | 2.75       | -0.16                | -0.86  | 2.82       | -0.09                | -0.47  | XX         |
| 8EYULL  |           | 2.91       | 0.00                 | 0.02   | 2.83       | -0.08                | -0.42  | CE         |
| 8QHNN3  |           | 3.00       | 0.10                 | 0.52   | 3.04       | 0.14                 | 0.75   | TM         |
| 9MXW2D  |           | 2.81       | -0.10                | -0.53  | 2.82       | -0.08                | -0.44  | TO         |
| A7TER7  |           | 2.72       | -0.19                | -1.02  | 2.72       | -0.18                | -1.01  | TM         |
| AAA4EJ  | X         | 3.94       | 1.03                 | 5.60   | 3.87       | 0.96                 | 5.26   | TO         |
| AF4NLC  |           | 3.07       | 0.16                 | 0.87   | 3.00       | 0.09                 | 0.50   | TO         |
| AKGPY9  | *         | 2.87       | -0.04                | -0.20  | 2.59       | -0.31                | -1.71  | TO         |
| BGFFH2  |           | 2.99       | 0.08                 | 0.42   | 3.04       | 0.14                 | 0.75   | CS         |
| BKG4UN  |           | 3.03       | 0.13                 | 0.68   | 3.03       | 0.12                 | 0.66   | XX         |
| DQ3CJN  |           | 2.96       | 0.05                 | 0.29   | 2.98       | 0.08                 | 0.43   | CE         |
| DZED79  | X         | 0.36       | -2.55                | -13.88 | 0.36       | -2.55                | -13.90 | TO         |
| E87R9X  |           | 2.79       | -0.11                | -0.61  | 2.84       | -0.07                | -0.36  | TO         |
| EN68CX  |           | 2.69       | -0.22                | -1.18  | 2.75       | -0.16                | -0.85  | CE         |
| F3HMQ3  | X         | 2.22       | -0.69                | -3.74  | 2.26       | -0.65                | -3.55  | XX         |
| FKHHEH  |           | 3.22       | 0.31                 | 1.68   | 3.14       | 0.23                 | 1.26   | TO         |
| FYJCM3  |           | 2.48       | -0.43                | -2.35  | 2.56       | -0.34                | -1.86  | CE         |
| G7ADY2  |           | 2.92       | 0.01                 | 0.08   | 3.17       | 0.26                 | 1.44   | CE         |
| GWGJN7  |           | 2.85       | -0.06                | -0.34  | 2.94       | 0.04                 | 0.22   | TM         |
| H24XMB  |           | 2.80       | -0.11                | -0.60  | 2.76       | -0.14                | -0.77  | TO         |
| HMFYBF  |           | 3.01       | 0.11                 | 0.58   | 2.99       | 0.08                 | 0.44   | TO         |

## Analysis 790

## Notched Izod Impact - ft.lbf/in

| WebCode | Data Flag | Sample S17 |                      |       | Sample S18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| HRRWM6  |           | 2.85       | -0.05                | -0.29 | 2.85       | -0.06                | -0.32 | TM         |
| K36YJA  | *         | 3.45       | 0.54                 | 2.96  | 3.42       | 0.52                 | 2.83  | TM         |
| KQGF4R  | X         | 2.00       | -0.91                | -4.93 | 2.05       | -0.85                | -4.65 | TM         |
| MT6YPQ  |           | 3.01       | 0.10                 | 0.57  | 3.04       | 0.14                 | 0.75  | TO         |
| MXYL8R  |           | 3.05       | 0.14                 | 0.75  | 3.21       | 0.31                 | 1.67  | TM         |
| NGRHL2  |           | 3.00       | 0.10                 | 0.52  | 2.96       | 0.05                 | 0.28  | TM         |
| NY9U3P  |           | 3.28       | 0.37                 | 2.03  | 3.16       | 0.26                 | 1.40  | XX         |
| PFZFFH  |           | 2.90       | -0.01                | -0.06 | 2.89       | -0.02                | -0.09 | CE         |
| Q34UDW  |           | 2.93       | 0.02                 | 0.11  | 2.93       | 0.03                 | 0.16  | TM         |
| Q4FF8J  |           | 2.85       | -0.06                | -0.30 | 2.93       | 0.02                 | 0.13  | TO         |
| QF92ZC  |           | 3.02       | 0.11                 | 0.60  | 3.13       | 0.23                 | 1.25  | CE         |
| RWXY7K  |           | 3.14       | 0.23                 | 1.24  | 3.06       | 0.15                 | 0.84  | WZ         |
| TAPWXL  |           | 3.04       | 0.13                 | 0.71  | 3.09       | 0.19                 | 1.02  | TO         |
| TPZ8H8  |           | 2.58       | -0.33                | -1.78 | 2.52       | -0.38                | -2.09 | TO         |
| TQNBUV  |           | 2.78       | -0.13                | -0.70 | 2.80       | -0.11                | -0.58 | CS         |
| TVFRDT  |           | 2.60       | -0.31                | -1.68 | 2.75       | -0.15                | -0.85 | TO         |
| UD6JGH  |           | 3.06       | 0.15                 | 0.83  | 2.95       | 0.04                 | 0.24  | CE         |
| UPNUBE  |           | 2.76       | -0.15                | -0.80 | 2.88       | -0.02                | -0.13 | TO         |
| UV3GH8  |           | 2.80       | -0.11                | -0.60 | 2.76       | -0.14                | -0.79 | TO         |
| UXD8VC  |           | 2.90       | -0.01                | -0.06 | 2.89       | -0.01                | -0.07 | TM         |
| V2924K  |           | 2.72       | -0.19                | -1.01 | 2.79       | -0.12                | -0.65 | TO         |
| V6QDUA  |           | 3.13       | 0.22                 | 1.19  | 2.91       | 0.01                 | 0.04  | CE         |
| VWEYCE  | X         | 1.48       | -1.43                | -7.75 | 1.44       | -1.47                | -8.02 | TO         |
| W4V2RU  |           | 2.99       | 0.09                 | 0.47  | 2.99       | 0.09                 | 0.48  | TM         |
| WDG6VC  |           | 2.68       | -0.23                | -1.23 | 2.78       | -0.12                | -0.67 | CE         |
| WVWYDQ  |           | 3.17       | 0.26                 | 1.44  | 3.04       | 0.14                 | 0.75  | TM         |
| Y4N8ZP  |           | 3.13       | 0.22                 | 1.19  | 3.17       | 0.26                 | 1.44  | TM         |
| YQAQQH  |           | 2.97       | 0.07                 | 0.36  | 3.00       | 0.09                 | 0.50  | TM         |
| YWBDJE  |           | 3.19       | 0.29                 | 1.56  | 3.00       | 0.09                 | 0.51  | TM         |
| ZFGADY  |           | 2.94       | 0.03                 | 0.16  | 2.85       | -0.06                | -0.31 | TY         |

## Analysis 790

## Notched Izod Impact - ft.lbf/in

## Summary Statistics

Grand Means

2.908 ft.lbf/in

2.905 ft.lbf/in

Std Dev Btwn Labs

0.184 ft.lbf/in

0.183 ft.lbf/in

Statistics based on 56 of 62 reporting participants

Sample S17: HIPS &amp; Sample S18: HIPS

**Comments on assigned Data Flags for Test #790**

3CR2BB (X) - Inconsistent in testing between samples, data for Sample S18 are low.

AAA4EJ (X) - Data for both samples are high.

DZED79 (X) - Data for both samples are low.

F3HMQ3 (X) - Data for both samples are low. Possible Systematic Error.

KQGF4R (X) - Data for both samples are low.

VWEYCE (X) - Data for both samples are low.

**Instrument Code List as Reported by the Labs**

(BA) - Baldwin

(CE) - Ceast

(CS) - CSI

(DS) - Dynisco

(TM) - TMI

(TO) - Tinius Olsen

(TY) - Toyoseiki

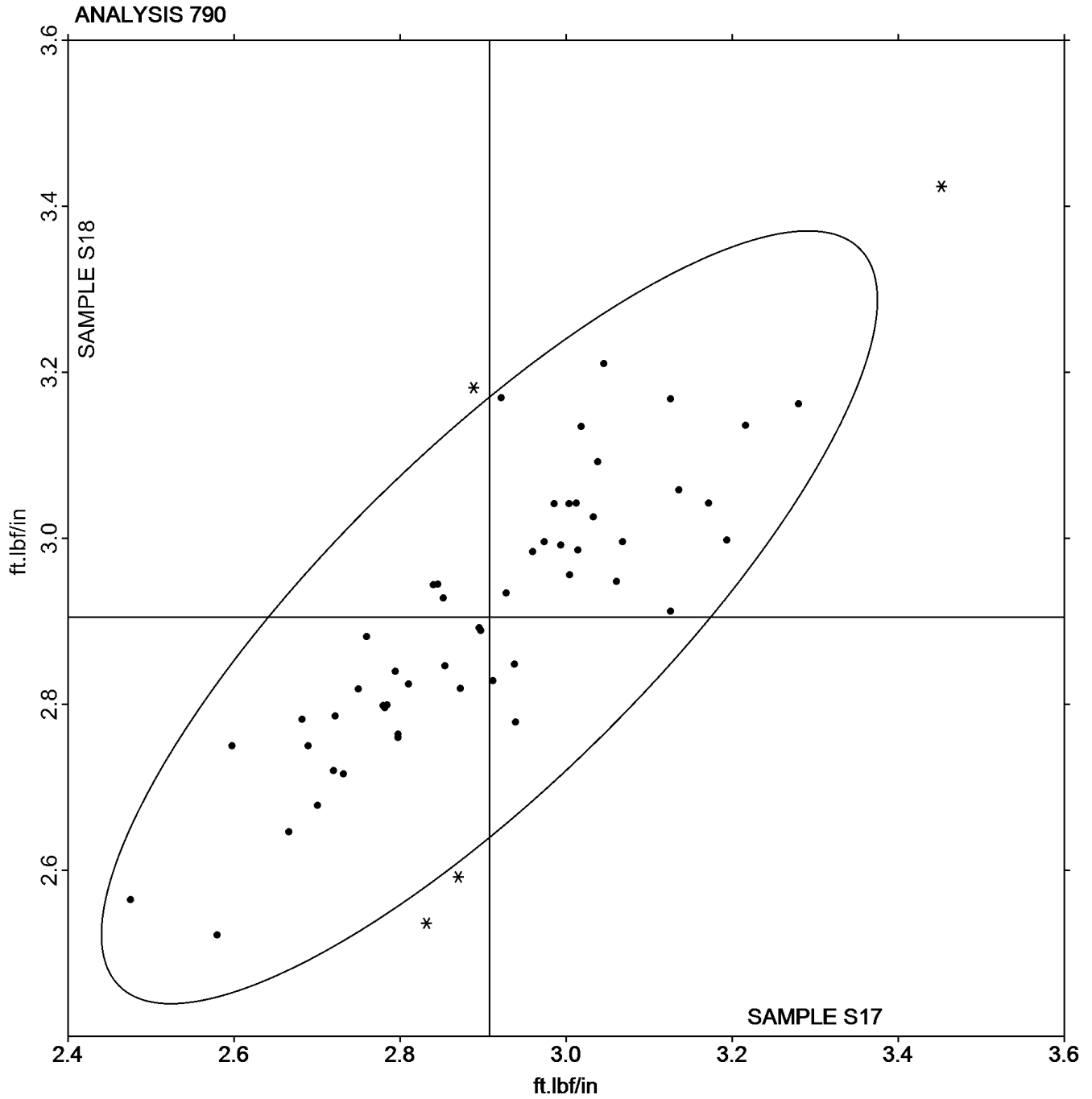
(WY) - Yasuda Seiki

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 790  
Notched Izod Impact - ft.lbf/in

Grand Mean Sample S17: 2.9075 ft.lbf/in    Grand Mean Sample S18: 2.9048 ft.lbf/in



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

Analysis 791

Notched Izod Impact - kJ/m<sup>2</sup>

| WebCode | Data Flag | Sample Z17 |                      |       | Sample Z18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2FT48E  |           | 13.27400   | 0.76285              | 0.50  | 12.81800   | 0.42639              | 0.32  | XX         |
| 3KVMHV  |           | 12.44000   | -0.07115             | -0.05 | 13.22000   | 0.82839              | 0.62  | XX         |
| 49U4G8  |           | 12.20600   | -0.30515             | -0.20 | 11.45200   | -0.93961             | -0.70 | XX         |
| 9GMKKF  |           | 11.62360   | -0.88755             | -0.58 | 11.88640   | -0.50521             | -0.38 | XX         |
| BJWZUV  |           | 11.78000   | -0.73115             | -0.48 | 12.38000   | -0.01161             | -0.01 | XX         |
| FPCK4K  |           | 11.88000   | -0.63115             | -0.41 | 12.70600   | 0.31439              | 0.24  | XX         |
| FXLZVH  |           | 12.99800   | 0.48685              | 0.32  | 12.97200   | 0.58039              | 0.44  | XX         |
| KQFN7G  |           | 13.49800   | 0.98685              | 0.65  | 13.12800   | 0.73639              | 0.55  | XX         |
| M33CVK  |           | 12.54200   | 0.03085              | 0.02  | 13.02400   | 0.63239              | 0.47  | XX         |
| MPMWHG  |           | 12.65800   | 0.14685              | 0.10  | 12.60800   | 0.21639              | 0.16  | XX         |
| MUYTD9  |           | 13.00600   | 0.49485              | 0.32  | 12.51800   | 0.12639              | 0.09  | XX         |
| MVK7FU  | *         | 7.56600    | -4.94515             | -3.24 | 7.71200    | -4.67961             | -3.51 | XX         |
| QMBRLC  |           | 15.01760   | 2.50645              | 1.64  | 13.47720   | 1.08559              | 0.81  | XX         |
| UDGME7  |           | 13.84200   | 1.33085              | 0.87  | 13.01800   | 0.62639              | 0.47  | XX         |
| UTVUNA  |           | 13.35240   | 0.84125              | 0.55  | 13.29980   | 0.90819              | 0.68  | XX         |
| WMADNV  |           | 12.18600   | -0.32515             | -0.21 | 11.63800   | -0.75361             | -0.56 | XX         |
| ZAXWRY  |           | 12.82000   | 0.30885              | 0.20  | 12.80000   | 0.40839              | 0.31  | XX         |

| Summary Statistics                                  |           |                   |                   |
|---|-----------|-------------------|-------------------|
| Grand Means   | 12.511153 | kJ/m <sup>2</sup> | 12.391612         |
|   |           |                   | kJ/m <sup>2</sup> |
| Std Dev Btwn Labs                                   | 1.526758  | kJ/m <sup>2</sup> | 1.334075          |
|   |           |                   | kJ/m <sup>2</sup> |
| Statistics based on 17 of 17 reporting participants |           |                   |                   |

Sample Z17: HIPS & Sample Z18: HIPS

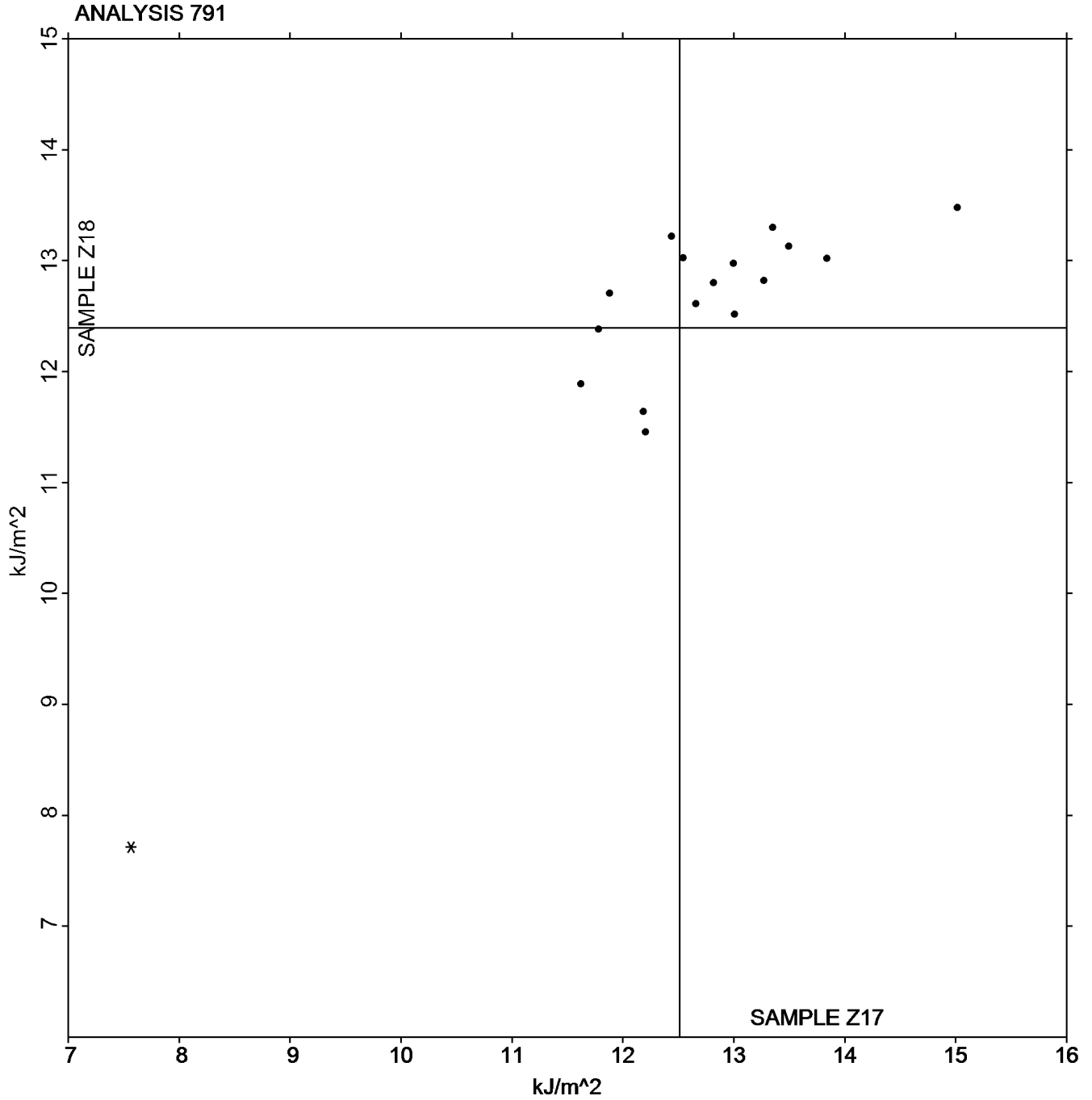
**Instrument Code List as Reported by the Labs**

(XX) - Instrument manufacturer not specified by lab

Analysis 791

Notched Izod Impact - kJ/m<sup>2</sup>

Grand Mean Sample Z17: 12.511 kJ/m<sup>2</sup> Grand Mean Sample Z18: 12.392 kJ/m<sup>2</sup>



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

## Analysis 792

Notched Charpy Impact - kJ/m<sup>2</sup>

| WebCode | Data Flag | Sample M17 |                      |       | Sample M18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 36ELUQ  |           | 22.67      | -0.13                | -0.04 | 26.30      | 2.66                 | 0.71  | XX         |
| 3TCKKX  |           | 23.76      | 0.96                 | 0.28  | 23.66      | 0.01                 | 0.00  | TO         |
| 4GV8WX  |           | 20.05      | -2.75                | -0.80 | 20.60      | -3.04                | -0.81 | TY         |
| 6FZCWL  |           | 22.96      | 0.17                 | 0.05  | 23.18      | -0.47                | -0.12 | TM         |
| 77TEQA  |           | 25.26      | 2.47                 | 0.72  | 20.92      | -2.73                | -0.73 | TM         |
| 7ZQT43  |           | 28.85      | 6.05                 | 1.77  | 29.56      | 5.91                 | 1.57  | TM         |
| 9CQ9U9  |           | 29.10      | 6.31                 | 1.84  | 25.53      | 1.88                 | 0.50  | TM         |
| A96JQT  |           | 18.80      | -3.99                | -1.17 | 18.06      | -5.58                | -1.49 | XX         |
| CAP4K2  |           | 19.91      | -2.88                | -0.84 | 21.73      | -1.92                | -0.51 | TO         |
| CETYGC  |           | 23.25      | 0.45                 | 0.13  | 23.59      | -0.06                | -0.02 | TM         |
| CH7UJC  | *         | 20.20      | -2.60                | -0.76 | 27.98      | 4.33                 | 1.15  | WZ         |
| D3NQ3U  |           | 21.30      | -1.50                | -0.44 | 22.56      | -1.09                | -0.29 | WZ         |
| DMKVHZ  |           | 24.26      | 1.46                 | 0.43  | 22.68      | -0.96                | -0.26 | WZ         |
| DZ3FDA  |           | 23.00      | 0.20                 | 0.06  | 26.80      | 3.16                 | 0.84  | XX         |
| EG2XNT  |           | 18.88      | -3.92                | -1.14 | 22.02      | -1.63                | -0.43 | XX         |
| EKCTV4  |           | 23.77      | 0.98                 | 0.29  | 25.33      | 1.69                 | 0.45  | CE         |
| GL2VLM  | X         | 61.32      | 38.52                | 11.24 | 61.94      | 38.29                | 10.20 | CE         |
| HEJYWG  |           | 23.31      | 0.51                 | 0.15  | 23.57      | -0.07                | -0.02 | TO         |
| JMDDL7  |           | 27.56      | 4.77                 | 1.39  | 27.29      | 3.64                 | 0.97  | CE         |
| JWXWJW  |           | 23.71      | 0.91                 | 0.27  | 22.20      | -1.44                | -0.38 | WZ         |
| KHFGX9  |           | 20.67      | -2.12                | -0.62 | 20.26      | -3.38                | -0.90 | CE         |
| LM2UAD  |           | 26.27      | 3.47                 | 1.01  | 28.84      | 5.20                 | 1.38  | CE         |
| NQK6CE  |           | 18.22      | -4.58                | -1.34 | 17.71      | -5.93                | -1.58 | XX         |
| PVAP2Y  |           | 27.96      | 5.16                 | 1.51  | 27.12      | 3.47                 | 0.92  | XX         |
| QJ4EMW  |           | 22.50      | -0.30                | -0.09 | 22.16      | -1.49                | -0.40 | XX         |
| R9WAU8  |           | 24.56      | 1.76                 | 0.52  | 29.96      | 6.31                 | 1.68  | CE         |
| T334QG  |           | 26.20      | 3.40                 | 0.99  | 30.08      | 6.44                 | 1.71  | WZ         |
| VBGJT2  |           | 15.30      | -7.50                | -2.19 | 15.40      | -8.25                | -2.20 | TO         |
| WF6JFA  |           | 26.74      | 3.95                 | 1.15  | 26.14      | 2.50                 | 0.66  | TM         |
| WX4KHA  |           | 17.53      | -5.27                | -1.54 | 17.76      | -5.89                | -1.57 | CE         |
| XBYADW  |           | 24.78      | 1.98                 | 0.58  | 24.96      | 1.31                 | 0.35  | XX         |
| XL737H  |           | 19.06      | -3.74                | -1.09 | 19.26      | -4.39                | -1.17 | CE         |

## Analysis 792

Notched Charpy Impact - kJ/m<sup>2</sup>

| WebCode | Data Flag | Sample M17 |                      |       | Sample M18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| YR8R8M  |           | 22.60      | -0.20                | -0.06 | 22.30      | -1.35                | -0.36 | XX         |
| Z6DPZQ  |           | 19.26      | -3.54                | -1.03 | 24.82      | 1.17                 | 0.31  | CE         |

## Summary Statistics

Grand Means

22.795 kJ/m<sup>2</sup>23.646 kJ/m<sup>2</sup>

Std Dev Btwn Labs

3.426 kJ/m<sup>2</sup>3.756 kJ/m<sup>2</sup>

Statistics based on 33 of 34 reporting participants

Sample M17: ABS/PC &amp; Sample M18: ABS/PC

**Comments on assigned Data Flags for Test #792**

GL2VLM (X) - Data for both samples are high.

## Instrument Code List as Reported by the Labs

(CE) - Ceast

(TM) - TMI

(TO) - Tinius Olsen

(TY) - Toyoseiki

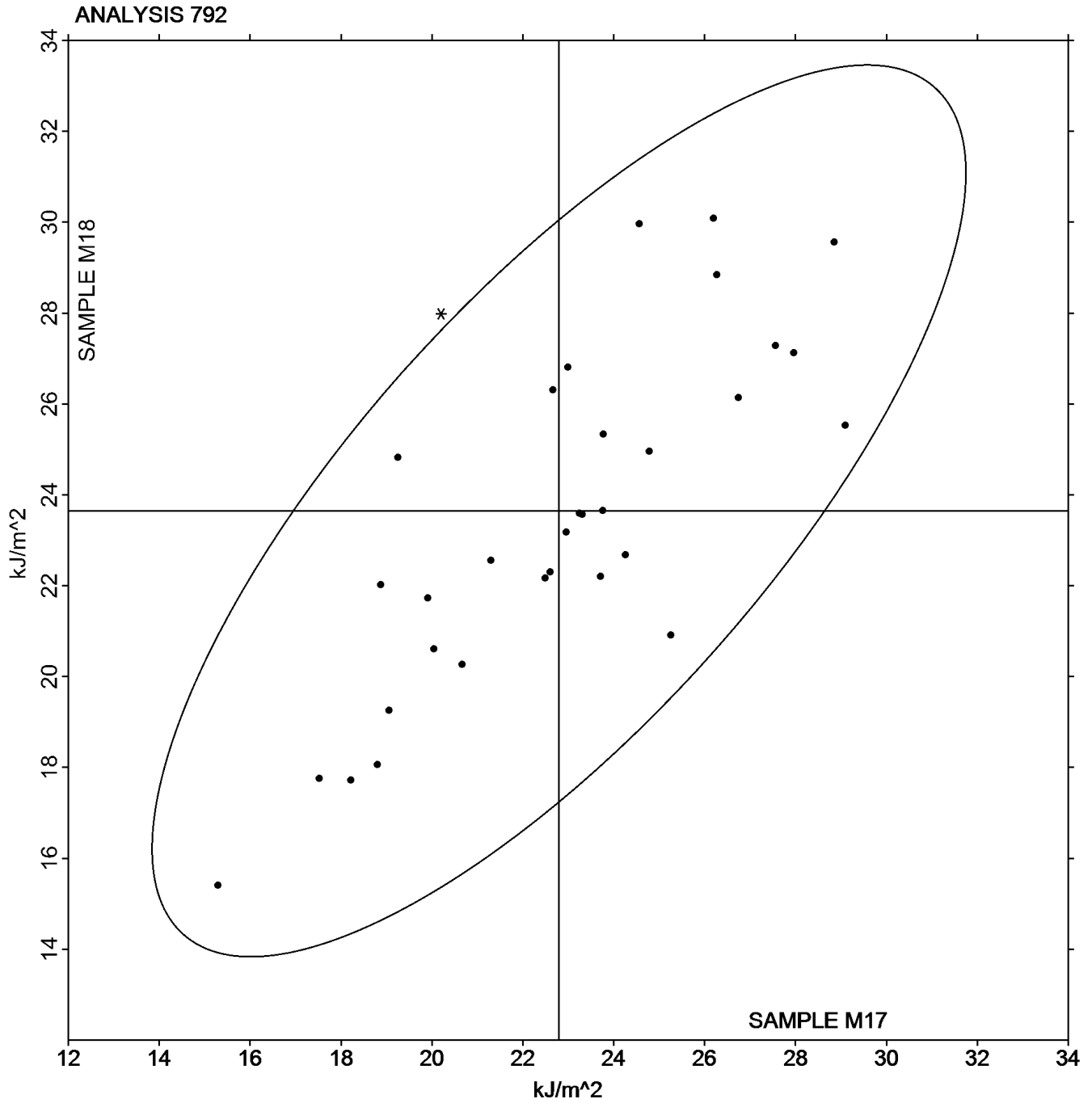
(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab



Analysis 792  
Notched Charpy Impact - kJ/m<sup>2</sup>

Grand Mean Sample M17: 22.795 kJ/m<sup>2</sup> Grand Mean Sample M18: 23.646 kJ/m<sup>2</sup>



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

**Plastics Interlaboratory Testing Program**  
**Analysis 710**  
**Deflection Temp. Under Flexural Load (1.82 MPa) - Degrees C**

| WebCode | Data Flag | Sample E17 |                      |       | Sample E18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 27TBDD  |           | 78.43      | -0.06                | -0.05 | 78.50      | -0.09                | -0.08 | TO         |
| 2GQAT9  | *         | 75.75      | -2.73                | -2.17 | 76.93      | -1.67                | -1.38 | CE         |
| 2V6WUR  |           | 78.18      | -0.31                | -0.25 | 77.68      | -0.92                | -0.76 | RO         |
| 3WGGHW  |           | 78.53      | 0.04                 | 0.03  | 78.33      | -0.27                | -0.22 | TO         |
| 4NDG4E  |           | 79.55      | 1.07                 | 0.85  | 79.70      | 1.11                 | 0.92  | AT         |
| 4QF6DH  | X         | 87.50      | 9.02                 | 7.16  | 84.38      | 5.78                 | 4.79  | XX         |
| 62GCT6  |           | 76.90      | -1.58                | -1.26 | 78.00      | -0.59                | -0.49 | XX         |
| 684VGE  |           | 78.73      | 0.24                 | 0.19  | 78.53      | -0.07                | -0.06 | CE         |
| 7AH7CW  |           | 77.45      | -1.03                | -0.82 | 77.23      | -1.37                | -1.13 | XA         |
| 7C7FHC  |           | 80.14      | 1.66                 | 1.32  | 79.98      | 1.38                 | 1.15  | TO         |
| 7HZFYX  |           | 77.65      | -0.83                | -0.66 | 78.30      | -0.29                | -0.24 | AT         |
| 89ZLT6  |           | 79.35      | 0.87                 | 0.69  | 79.75      | 1.16                 | 0.96  | CE         |
| 97DDAN  |           | 78.08      | -0.41                | -0.32 | 78.28      | -0.32                | -0.26 | AT         |
| 9ED4EC  |           | 80.56      | 2.07                 | 1.64  | 80.56      | 1.96                 | 1.62  | XX         |
| AAJREV  |           | 78.50      | 0.02                 | 0.01  | 77.98      | -0.62                | -0.51 | TO         |
| AU8B4H  |           | 77.68      | -0.81                | -0.64 | 77.90      | -0.69                | -0.57 | XX         |
| CA7DD3  |           | 79.05      | 0.57                 | 0.45  | 79.08      | 0.48                 | 0.40  | CE         |
| CJEWQB  |           | 78.03      | -0.46                | -0.36 | 77.68      | -0.92                | -0.76 | TY         |
| DPMDCX  |           | 79.58      | 1.09                 | 0.87  | 79.60      | 1.01                 | 0.83  | TO         |
| FGJZNP  |           | 80.48      | 1.99                 | 1.58  | 80.43      | 1.83                 | 1.52  | AT         |
| FMD9UQ  |           | 79.48      | 0.99                 | 0.79  | 79.05      | 0.46                 | 0.38  | XX         |
| HF9U9X  |           | 77.83      | -0.66                | -0.52 | 77.63      | -0.97                | -0.80 | TO         |
| J2FW6J  |           | 78.68      | 0.19                 | 0.15  | 78.60      | 0.01                 | 0.01  | DN         |
| JHZAET  |           | 80.00      | 1.52                 | 1.20  | 79.75      | 1.16                 | 0.96  | XX         |
| JKTPXD  |           | 79.38      | 0.89                 | 0.71  | 79.85      | 1.26                 | 1.04  | TY         |
| JP4VCJ  |           | 78.45      | -0.03                | -0.03 | 78.58      | -0.02                | -0.01 | XX         |
| M2GDCT  |           | 77.35      | -1.13                | -0.90 | 77.83      | -0.77                | -0.64 | DN         |
| MQ9XQH  | *         | 75.55      | -2.93                | -2.33 | 75.35      | -3.24                | -2.69 | RR         |
| QPPC9Y  |           | 76.80      | -1.68                | -1.34 | 77.03      | -1.57                | -1.30 | CE         |
| REAAPN  |           | 81.25      | 2.77                 | 2.20  | 81.45      | 2.86                 | 2.37  | CE         |
| REAWYV  |           | 78.18      | -0.31                | -0.25 | 78.40      | -0.19                | -0.16 | TO         |
| RLQ3L8  |           | 78.60      | 0.12                 | 0.09  | 78.85      | 0.26                 | 0.21  | TO         |

**Plastics Interlaboratory Testing Program**  
**Analysis 710**  
**Deflection Temp. Under Flexural Load (1.82 MPa) - Degrees C**

| WebCode | Data Flag | Sample E17 |                      |       | Sample E18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| T3K776  |           | 77.45      | -1.03                | -0.82 | 77.45      | -1.14                | -0.95 | TO         |
| W36A3Q  |           | 77.95      | -0.53                | -0.42 | 78.20      | -0.39                | -0.33 | DN         |
| XNLXF9  |           | 78.90      | 0.42                 | 0.33  | 79.80      | 1.21                 | 1.00  | AT         |
| Z9J3RN  |           | 78.55      | 0.07                 | 0.05  | 78.58      | -0.02                | -0.01 | TO         |

**Summary Statistics**

Grand Means

78.484 Degrees C

78.593 Degrees C

Std Dev Btwn Labs

1.259 Degrees C

1.207 Degrees C

Statistics based on 35 of 36 reporting participants

Sample E17: ABS/PC &amp; Sample E18: ABS/PC

**Comments on assigned Data Flags for Test #710**

4QF6DH (X) - Data for both samples are high.

**Instrument Code List as Reported by the Labs**

(AT) - Atlas

(CE) - Ceast

(DN) - DYNISCO

(RO) - Rosand

(RR) - Ray-Ran

(TO) - Tinius Olsen

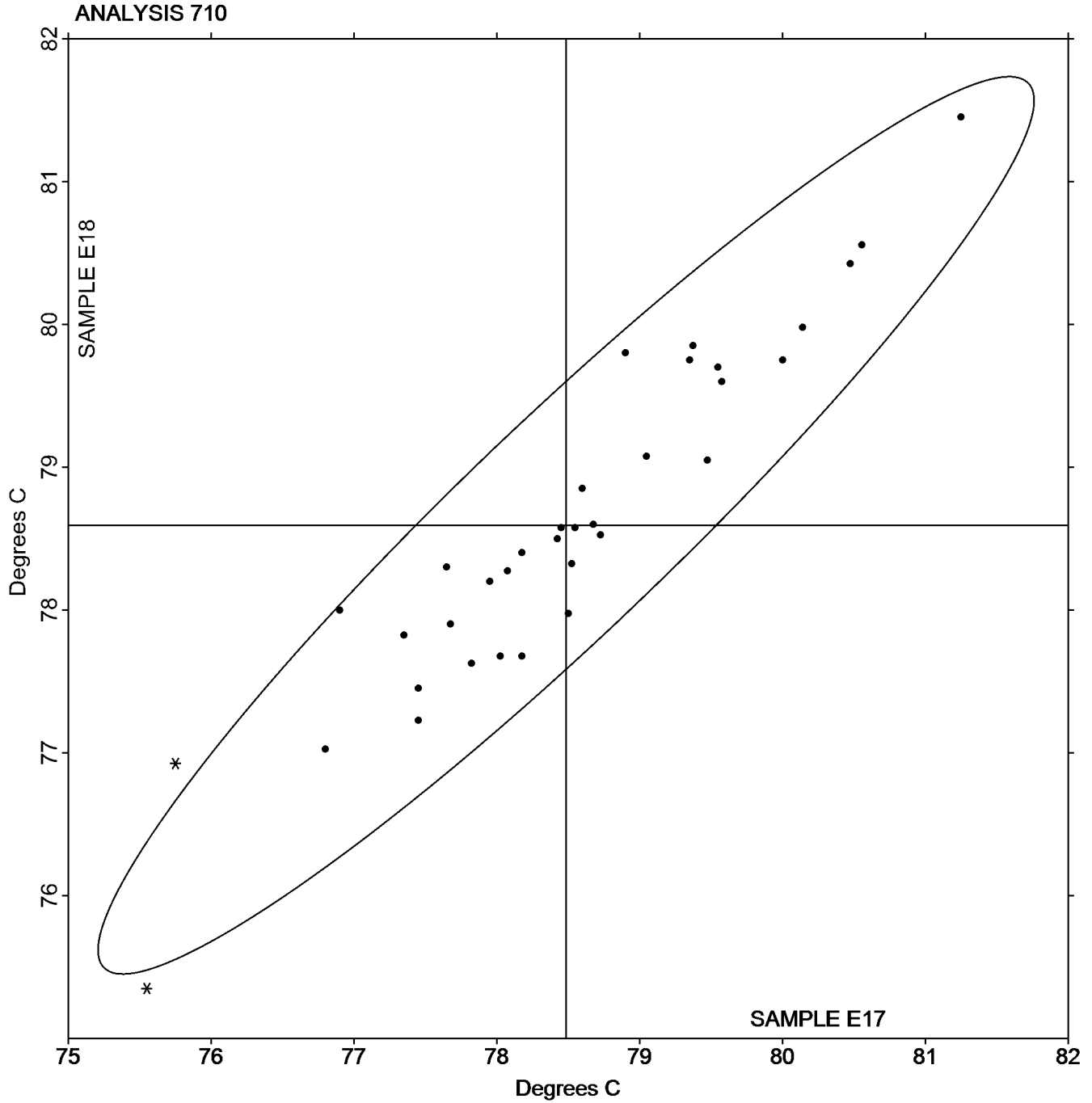
(TY) - Toyoseiki

(XA) - Special In-House Instrument

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 710  
Deflection Temp. Under Flexural Load (1.82 MPa) - Degrees C

Grand Mean Sample E17: 78.484 Degrees C    Grand Mean Sample E18: 78.593 Degrees C



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

**Plastics Interlaboratory Testing Program**  
**Analysis 711**  
**Deflection Temp. Under Flexural Load (0.455 MPa) - Degrees C**

| WebCode | Data Flag | Sample G17 |                      |       | Sample G18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 3J8XRL  |           | 67.5       | -0.1                 | -0.09 | 67.7       | 0.7                  | 0.50  | TO         |
| 4BZVML  |           | 67.3       | -0.3                 | -0.25 | 66.1       | -0.9                 | -0.69 | CE         |
| 4U2622  |           | 68.1       | 0.5                  | 0.46  | 68.1       | 1.1                  | 0.80  | XX         |
| 6XNAU9  |           | 67.2       | -0.4                 | -0.34 | 66.3       | -0.7                 | -0.53 | CE         |
| 79LRGA  |           | 67.2       | -0.3                 | -0.27 | 67.5       | 0.5                  | 0.39  | TO         |
| 942JEX  |           | 65.6       | -2.0                 | -1.65 | 64.2       | -2.8                 | -2.05 | RR         |
| 9WXL9   |           | 70.4       | 2.8                  | 2.33  | 69.9       | 2.9                  | 2.10  | RO         |
| CW4VJY  |           | 66.0       | -1.5                 | -1.27 | 65.1       | -1.9                 | -1.37 | XX         |
| H8NNPX  |           | 67.9       | 0.3                  | 0.25  | 66.0       | -1.0                 | -0.71 | CE         |
| J6VDJX  |           | 69.4       | 1.8                  | 1.52  | 68.4       | 1.4                  | 1.00  | CE         |
| L7CPRY  |           | 68.4       | 0.9                  | 0.73  | 67.2       | 0.2                  | 0.17  | CE         |
| MVZKKH  |           | 68.3       | 0.7                  | 0.60  | 66.8       | -0.2                 | -0.16 | TO         |
| NULXPZ  |           | 67.6       | 0.1                  | 0.07  | 68.3       | 1.3                  | 0.99  | XX         |
| QUUC36  |           | 66.7       | -0.8                 | -0.69 | 66.6       | -0.4                 | -0.27 | XX         |
| VJH684  |           | 66.6       | -1.0                 | -0.79 | 67.1       | 0.1                  | 0.10  | TO         |
| WQVHKT  |           | 66.8       | -0.7                 | -0.61 | 66.6       | -0.4                 | -0.29 | TO         |

**Summary Statistics**

Grand Means

67.55 Degrees C

66.99 Degrees C

Std Dev Btwn Labs

1.20 Degrees C

1.36 Degrees C

Statistics based on 16 of 16 reporting participants

Sample G17: PP &amp; Sample G18: PP

**Instrument Code List as Reported by the Labs**

(CE) - Ceast

(RO) - Rosand

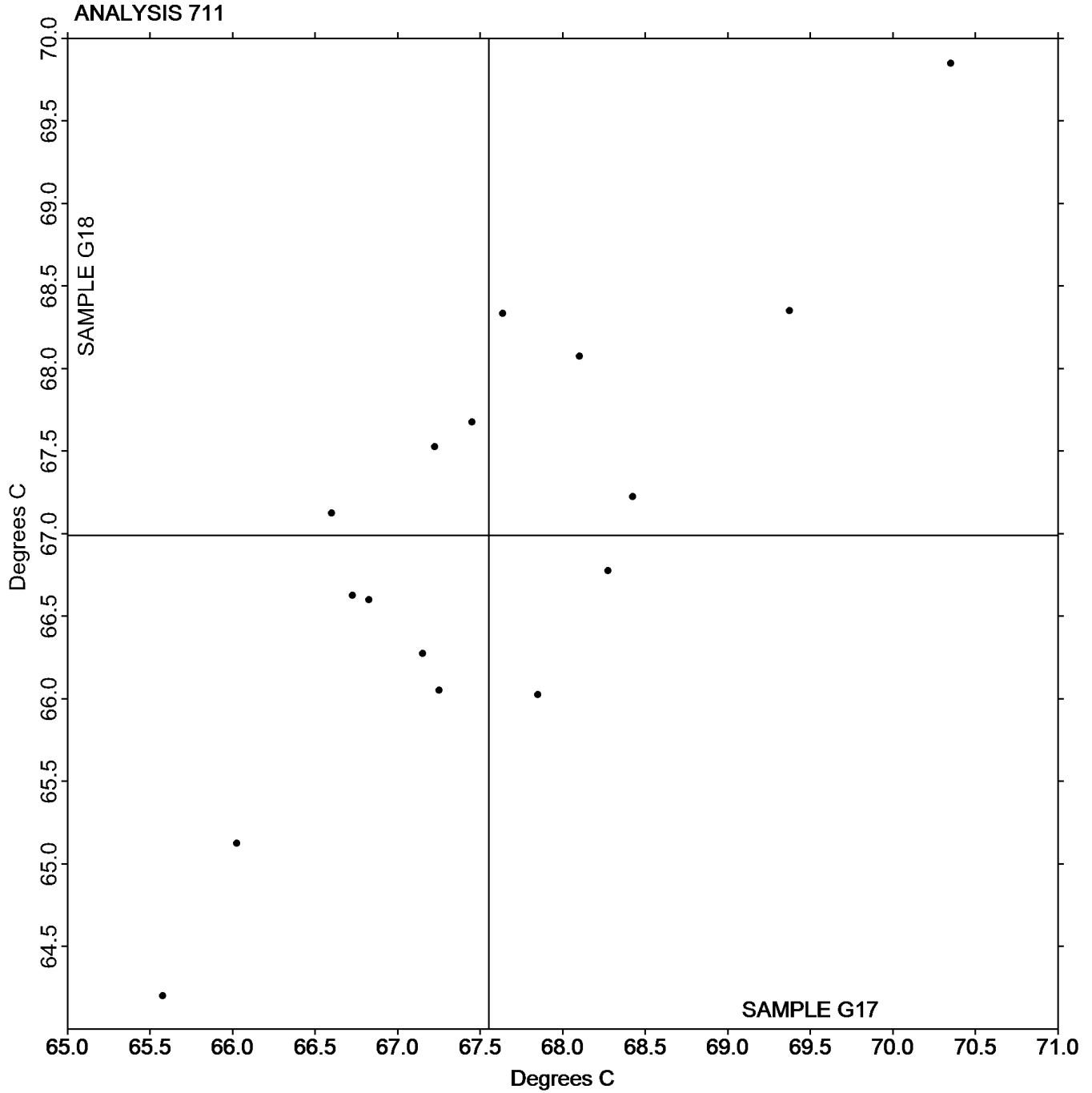
(RR) - Ray-Ran

(TO) - Tinius Olsen

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 711  
Deflection Temp. Under Flexural Load (0.455 MPa) - Degrees C

Grand Mean Sample G17: 67.552 Degrees C    Grand Mean Sample G18: 66.990 Degrees C



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

## Analysis 712

## Temp. of Deflection Under Flexural Load (1.80 MPa) - Degrees C

| WebCode | Data Flag | Sample N17 |                      |       | Sample N18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2KL8ZP  |           | 85.53      | 1.88                 | 1.58  | 85.23      | 1.66                 | 1.39  | CE         |
| 2L8UHQ  |           | 81.70      | -1.95                | -1.64 | 81.60      | -1.96                | -1.64 | CE         |
| 2Y62T7  |           | 84.65      | 1.00                 | 0.84  | 84.53      | 0.96                 | 0.80  | XX         |
| 3AHJZY  |           | 84.58      | 0.93                 | 0.78  | 84.45      | 0.89                 | 0.74  | CF         |
| 3RFG6T  |           | 83.28      | -0.37                | -0.31 | 83.53      | -0.04                | -0.03 | XX         |
| 4946TB  |           | 82.45      | -1.20                | -1.01 | 82.03      | -1.54                | -1.28 | TO         |
| 4WW22M  | X         | 84.48      | 0.83                 | 0.69  | 80.80      | -2.76                | -2.31 | DN         |
| 6BFX3E  |           | 83.60      | -0.05                | -0.04 | 83.63      | 0.06                 | 0.05  | AT         |
| 6J6RRK  | X         | 81.40      | -2.25                | -1.89 | 83.48      | -0.09                | -0.07 | XX         |
| 987HZH  |           | 82.35      | -1.30                | -1.09 | 82.45      | -1.11                | -0.93 | TO         |
| 9NH7DZ  |           | 83.93      | 0.28                 | 0.23  | 83.78      | 0.21                 | 0.18  | AT         |
| AJEUFD  |           | 83.90      | 0.25                 | 0.21  | 84.18      | 0.61                 | 0.51  | XX         |
| B4NNFN  |           | 83.53      | -0.12                | -0.10 | 83.45      | -0.11                | -0.09 | CE         |
| CKU3J8  |           | 82.83      | -0.82                | -0.69 | 82.88      | -0.69                | -0.57 | TO         |
| CKVX4U  |           | 83.83      | 0.18                 | 0.15  | 83.73      | 0.16                 | 0.14  | TO         |
| D3DBER  |           | 84.78      | 1.13                 | 0.95  | 85.23      | 1.66                 | 1.39  | XX         |
| DGNHMT  |           | 83.33      | -0.32                | -0.27 | 82.93      | -0.64                | -0.53 | XX         |
| E6FWHB  |           | 85.18      | 1.53                 | 1.28  | 85.33      | 1.76                 | 1.47  | TO         |
| FAYKAP  |           | 83.28      | -0.37                | -0.31 | 82.88      | -0.69                | -0.57 | XX         |
| FLJHDP  |           | 83.30      | -0.35                | -0.29 | 83.63      | 0.06                 | 0.05  | XX         |
| FYVPXG  |           | 84.33      | 0.68                 | 0.57  | 84.35      | 0.79                 | 0.66  | AT         |
| GB2LG7  |           | 83.83      | 0.18                 | 0.16  | 83.47      | -0.10                | -0.08 | CF         |
| JMBP3C  |           | 82.48      | -1.17                | -0.99 | 82.38      | -1.19                | -0.99 | XX         |
| KEGYFF  |           | 81.33      | -2.32                | -1.95 | 81.38      | -2.19                | -1.83 | CE         |
| MNCXJ2  |           | 83.53      | -0.12                | -0.10 | 82.80      | -0.76                | -0.64 | TY         |
| N2JAF9  |           | 82.80      | -0.85                | -0.71 | 82.75      | -0.81                | -0.68 | TO         |
| NX4GZ2  | X         | 90.10      | 6.45                 | 5.42  | 90.08      | 6.51                 | 5.44  | CE         |
| NXXXQ3  | X         | 88.20      | 4.55                 | 3.82  | 88.65      | 5.09                 | 4.25  | TO         |
| PDR87X  |           | 84.90      | 1.25                 | 1.05  | 84.13      | 0.56                 | 0.47  | AT         |
| PWZNXF  | X         | 80.15      | -3.50                | -2.94 | 82.60      | -0.96                | -0.80 | CE         |
| T6MDKC  |           | 83.43      | -0.22                | -0.19 | 83.40      | -0.16                | -0.14 | CE         |
| VARQCX  |           | 82.45      | -1.20                | -1.01 | 82.48      | -1.09                | -0.91 | CE         |

**Plastics Interlaboratory Testing Program**  
**Analysis 712**  
**Temp. of Deflection Under Flexural Load (1.80 MPa) - Degrees C**

| WebCode | Data Flag | Sample N17 |                      |       | Sample N18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| VVP36C  |           | 85.05      | 1.40                 | 1.18  | 84.43      | 0.86                 | 0.72  | AT         |
| WGZY6F  |           | 83.33      | -0.32                | -0.27 | 83.35      | -0.21                | -0.18 | CF         |
| XLZXCJ  |           | 82.70      | -0.95                | -0.80 | 83.03      | -0.54                | -0.45 | TO         |
| XPDJKC  | *         | 87.00      | 3.35                 | 2.81  | 87.13      | 3.56                 | 2.98  | QA         |

**Summary Statistics**

Grand Means

83.649 Degrees C

83.563 Degrees C

Std Dev Btwn Labs

1.191 Degrees C

1.197 Degrees C

Statistics based on 31 of 36 reporting participants

Sample N17: HIPS &amp; Sample N18: HIPS

**Comments on assigned Data Flags for Test #712**

4WW22M (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.

6J6RRK (X) - Inconsistent in testing between samples.

NX4GZ2 (X) - Data for both samples are high.

NXXXQ3 (X) - Data for both samples are high.

PWZNX (X) - Inconsistent in testing between samples, data for Sample N17 are low. Also Inconsistent in testing within both samples.

**Instrument Code List as Reported by the Labs**

(AT) - Atlas

(CE) - Ceast

(CF) - Coesfeld

(DN) - DYNISCO

(QA) - Qualitest

(TO) - Tinius Olsen

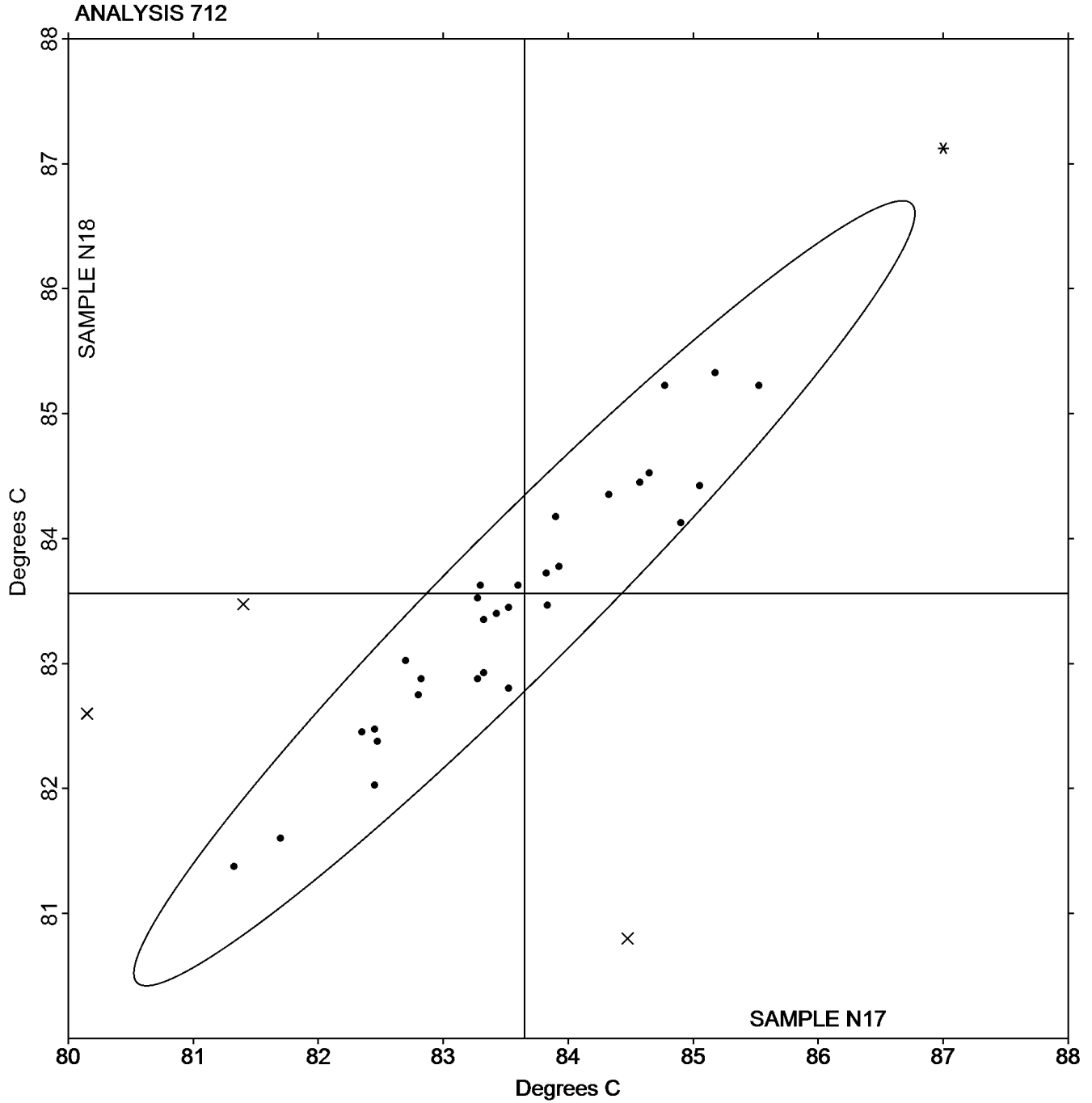
(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab



Analysis 712  
Temp. of Deflection Under Flexural Load (1.80 MPa) - Degrees C

Grand Mean Sample N17: 83.649 Degrees C    Grand Mean Sample N18: 83.563 Degrees C



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

**Plastics Interlaboratory Testing Program**  
**Analysis 715**  
**Vicat Softening Temperature (Rate A)**

| WebCode | Data Flag | Sample H17                       |                      |       | Sample H18 |                      |       | Instr Code |
|---------|-----------|----------------------------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean                         | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 22P78V  |           | 100.78                           | 0.46                 | 0.53  | 100.12     | 0.09                 | 0.10  | TO         |
| 4TXCA4  |           | 100.07                           | -0.26                | -0.30 | 99.63      | -0.40                | -0.44 | TO         |
| 6ZP8MD  | *         | 102.68                           | 2.36                 | 2.75  | 102.52     | 2.49                 | 2.76  | DN         |
| 7HKLJR  |           | 100.17                           | -0.16                | -0.19 | 99.73      | -0.30                | -0.33 | AT         |
| 7WP4NA  | M         | No data reported for this sample |                      |       | 100.74     | 0.71                 | 0.79  | CE         |
| 8VHZWX  |           | 99.65                            | -0.68                | -0.79 | 99.77      | -0.26                | -0.29 | AT         |
| 9GRFMC  |           | 100.77                           | 0.44                 | 0.51  | 100.50     | 0.47                 | 0.52  | AT         |
| A3RCQJ  |           | 98.75                            | -1.58                | -1.84 | 98.57      | -1.46                | -1.62 | CE         |
| CYNRYC  |           | 100.27                           | -0.06                | -0.07 | 100.07     | 0.04                 | 0.04  | CF         |
| D84RA8  |           | 100.40                           | 0.07                 | 0.08  | 100.32     | 0.29                 | 0.32  | XX         |
| EBP4BX  |           | 98.97                            | -1.36                | -1.59 | 98.87      | -1.16                | -1.29 | XX         |
| ELNWMY  |           | 100.65                           | 0.32                 | 0.38  | 100.32     | 0.29                 | 0.32  | CE         |
| KF9PXM  | *         | 102.13                           | 1.81                 | 2.11  | 102.32     | 2.29                 | 2.54  | CF         |
| KFTDHK  |           | 100.78                           | 0.46                 | 0.53  | 100.38     | 0.35                 | 0.39  | CE         |
| LXCV9M  |           | 99.98                            | -0.34                | -0.40 | 99.38      | -0.65                | -0.72 | AT         |
| R9J3Q2  |           | 100.10                           | -0.23                | -0.27 | 99.92      | -0.11                | -0.13 | RO         |
| RRVNNH  |           | 100.45                           | 0.12                 | 0.14  | 99.78      | -0.25                | -0.27 | CE         |
| RVADQF  |           | 100.67                           | 0.34                 | 0.40  | 100.35     | 0.32                 | 0.35  | RR         |
| V7P7ZU  |           | 99.72                            | -0.61                | -0.71 | 99.75      | -0.28                | -0.31 | TY         |
| W3HY3Z  |           | 99.39                            | -0.94                | -1.09 | 99.02      | -1.01                | -1.12 | CE         |
| WD3F3G  |           | 99.65                            | -0.68                | -0.79 | 99.52      | -0.51                | -0.57 | CF         |
| WDK4AV  |           | 101.63                           | 1.31                 | 1.52  | 101.42     | 1.39                 | 1.54  | XX         |
| WEYZU3  |           | 100.28                           | -0.04                | -0.05 | 100.05     | 0.02                 | 0.02  | TO         |
| WP263M  |           | 100.08                           | -0.24                | -0.28 | 99.55      | -0.48                | -0.53 | CE         |
| X4AQLN  |           | 100.35                           | 0.02                 | 0.03  | 99.50      | -0.53                | -0.59 | CE         |
| YKRATF  |           | 99.92                            | -0.41                | -0.48 | 99.75      | -0.28                | -0.31 | CE         |
| ZCMXNX  |           | 100.22                           | -0.11                | -0.13 | 99.70      | -0.33                | -0.37 | CE         |

Analysis 715  
Vicat Softening Temperature (Rate A)

## Summary Statistics

Grand Means

100.327 Degrees C

100.030 Degrees C

Std Dev Btwn Labs

0.857 Degrees C

0.902 Degrees C

Statistics based on 26 of 27 reporting participants

Sample H17: ABS/PC &amp; Sample H18: ABS/PC

**Comments on assigned Data Flags for Test #715**

7WP4NA (M) - Laboratory did not submit data for Sample H17.

## Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(CF) - Coesfeld

(DN) - DYNISCO

(RO) - Rosand

(RR) - Ray-Ran

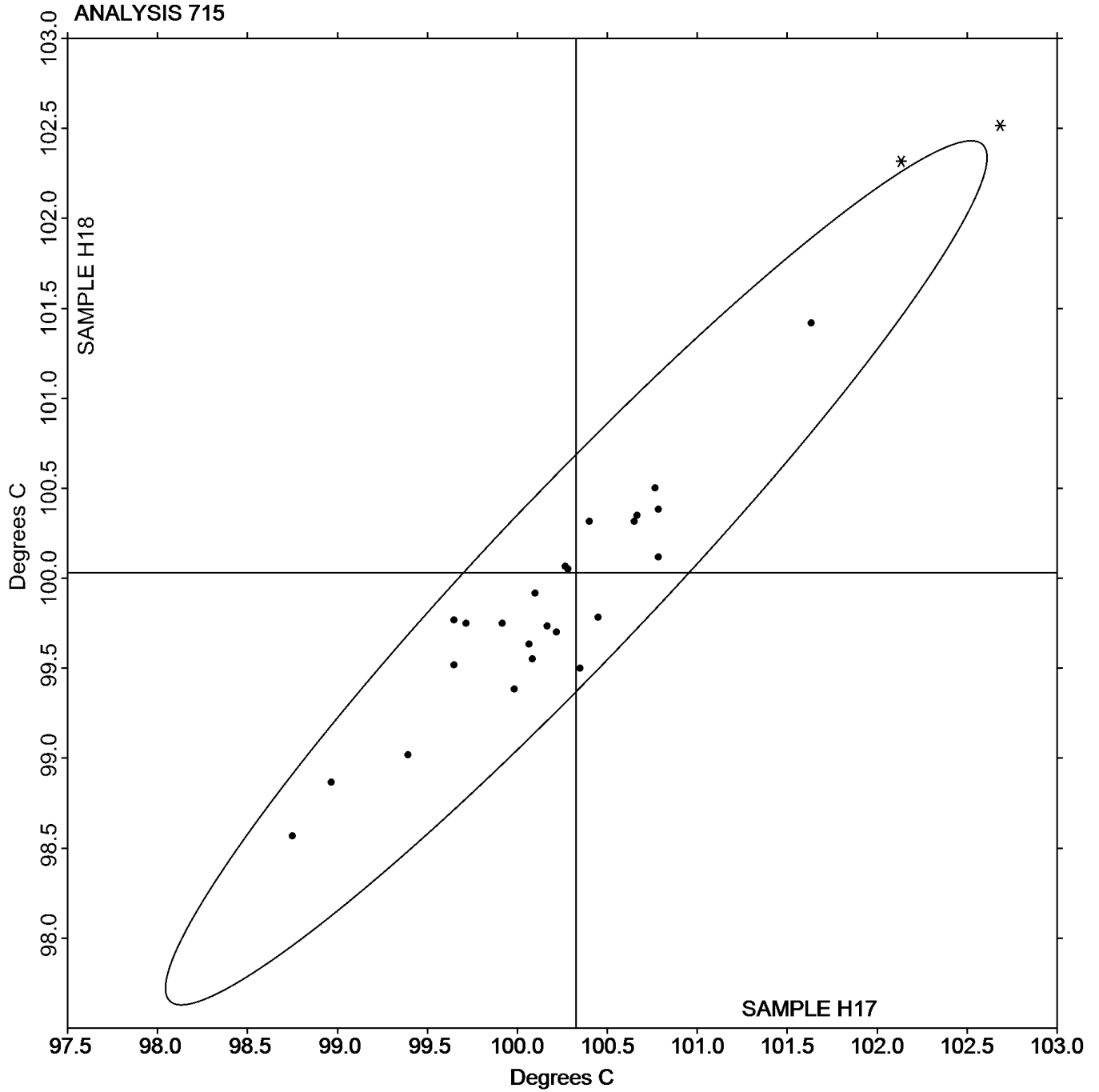
(TO) - Tinius Olsen

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 715  
Vicat Softening Temperature (Rate A)

Grand Mean Sample H17: 100.33 Degrees C    Grand Mean Sample H18: 100.03 Degrees C



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

**Plastics Interlaboratory Testing Program**  
**Analysis 716**  
**Vicat Softening Temperature (Rate B)**

| WebCode | Data Flag | Sample R17 |                      |        | Sample R18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|--------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV    | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2HTU9U  |           | 102.55     | 0.09                 | 0.12   | 102.13     | 0.00                 | 0.00  | RO         |
| 42GUDV  |           | 102.52     | 0.06                 | 0.07   | 102.23     | 0.10                 | 0.13  | CE         |
| 4C3WVL  | X         | 94.47      | -7.99                | -10.52 | 94.73      | -7.40                | -9.76 | CF         |
| 6J2HCT  |           | 101.17     | -1.29                | -1.70  | 100.91     | -1.22                | -1.61 | XX         |
| 6JYT8U  |           | 103.08     | 0.62                 | 0.82   | 102.58     | 0.45                 | 0.59  | AT         |
| 6Y4VGG  |           | 103.42     | 0.96                 | 1.26   | 103.02     | 0.88                 | 1.17  | AT         |
| 7NBK6B  |           | 103.52     | 1.06                 | 1.39   | 103.12     | 0.99                 | 1.30  | CE         |
| 82EKED  |           | 101.73     | -0.73                | -0.96  | 101.40     | -0.73                | -0.97 | TO         |
| 9N4NHP  |           | 102.02     | -0.44                | -0.58  | 101.97     | -0.17                | -0.22 | CE         |
| C7NACY  | *         | 102.68     | 0.22                 | 0.29   | 101.70     | -0.43                | -0.57 | CE         |
| D6EAEW  |           | 102.12     | -0.34                | -0.45  | 101.68     | -0.45                | -0.59 | AT         |
| D93UCG  |           | 100.87     | -1.59                | -2.10  | 100.48     | -1.65                | -2.17 | CE         |
| EULKJ2  |           | 102.48     | 0.02                 | 0.03   | 102.17     | 0.03                 | 0.05  | CE         |
| EXVD3V  |           | 102.55     | 0.09                 | 0.12   | 102.48     | 0.35                 | 0.46  | WZ         |
| F6WJLB  |           | 103.68     | 1.22                 | 1.61   | 103.43     | 1.30                 | 1.72  | CF         |
| GXL9F3  |           | 103.05     | 0.59                 | 0.78   | 102.52     | 0.38                 | 0.51  | DN         |
| LYE6GQ  |           | 101.03     | -1.44                | -1.89  | 100.82     | -1.32                | -1.73 | CE         |
| MVAZU7  | X         | 103.68     | 1.22                 | 1.61   | 104.57     | 2.43                 | 3.21  | XX         |
| RKQCGR  |           | 101.85     | -0.61                | -0.80  | 101.53     | -0.60                | -0.79 | TO         |
| TCE6DX  |           | 102.33     | -0.13                | -0.17  | 102.23     | 0.10                 | 0.13  | TY         |
| U93VE6  |           | 103.10     | 0.64                 | 0.84   | 103.23     | 1.10                 | 1.45  | XX         |
| W6EKCU  |           | 102.68     | 0.22                 | 0.29   | 102.37     | 0.23                 | 0.31  | TO         |
| X73WEV  |           | 102.82     | 0.36                 | 0.47   | 102.52     | 0.38                 | 0.51  | TO         |
| XQ84MN  |           | 102.97     | 0.51                 | 0.67   | 102.28     | 0.15                 | 0.20  | XX         |
| Z9E4KX  |           | 102.38     | -0.08                | -0.10  | 102.23     | 0.10                 | 0.13  | TO         |
| ZBTWY9  | X         | 107.15     | 4.69                 | 6.17   | 106.93     | 4.80                 | 6.33  | RR         |

**Analysis 716**  
**Vicat Softening Temperature (Rate B)**

**Summary Statistics**

|   |                   |                   |
|---|-------------------|-------------------|
| Grand Means   | 102.461 Degrees C | 102.132 Degrees C |
| Std Dev Btwn Labs                                   | 0.760 Degrees C   | 0.758 Degrees C   |
| Statistics based on 23 of 26 reporting participants |                   |                   |

Sample R17: ABS/PC & Sample R18: ABS/PC

**Comments on assigned Data Flags for Test #716**

4C3WVL (X) - Data for both samples are low.

MVAZU7 (X) - Inconsistent in testing between samples, data for Sample R18 are high. Also Inconsistent in testing within Sample R17.

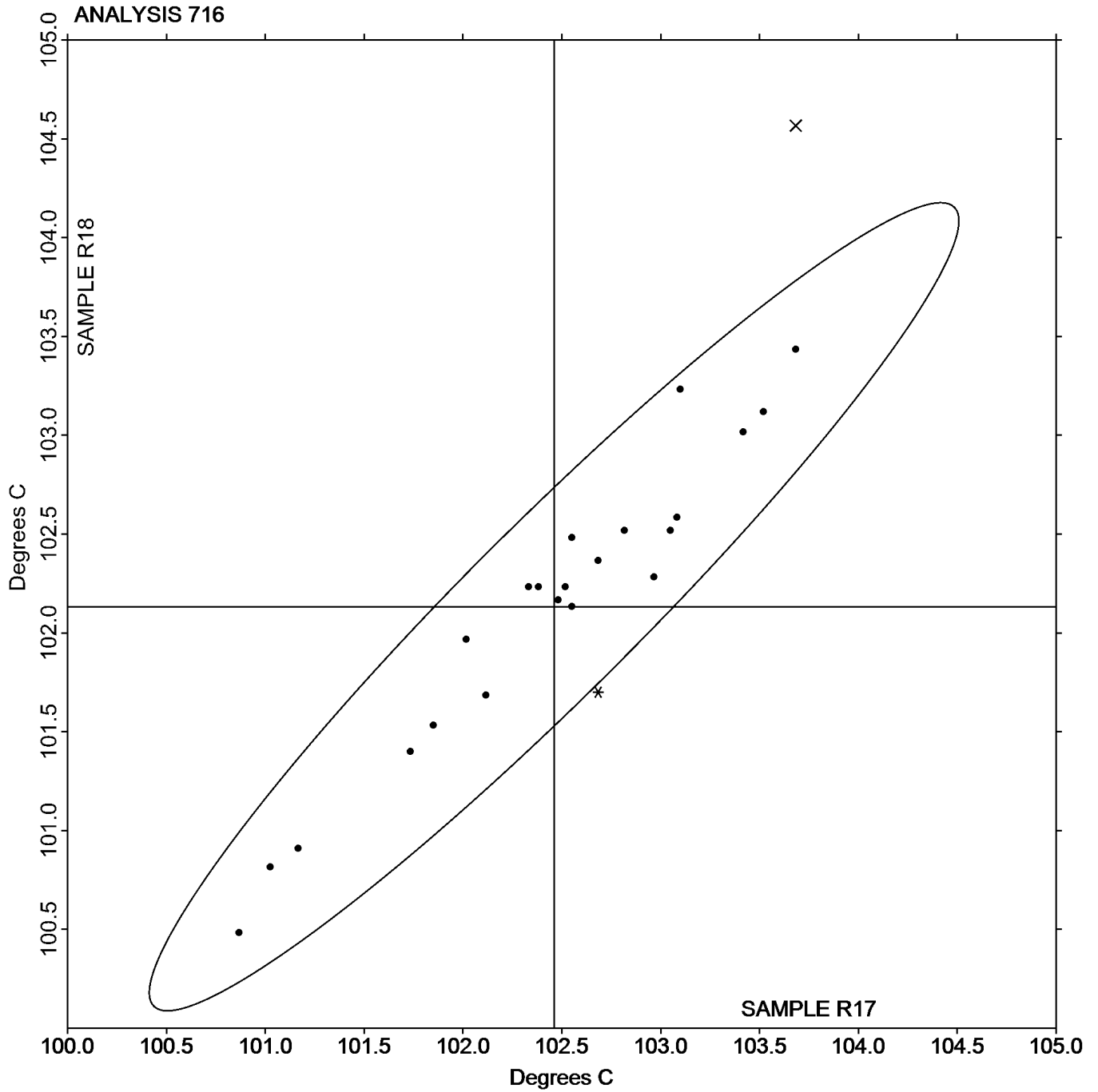
ZBTWY9 (X) - Data for both samples are high.

**Instrument Code List as Reported by the Labs**

|                     |   |
|---------------------|---|
| (AT) - Atlas        | (CE) - Ceast  |
| (CF) - Coesfeld     | (DN) - DYNISCO                                      |
| (RO) - Rosand       | (RR) - Ray-Ran                                      |
| (TO) - Tinius Olsen | (TY) - Toyoseiki                                    |
| (WZ) - Zwick        | (XX) - Instrument manufacturer not specified by lab |

Plastics Interlaboratory Testing Program  
Analysis 716  
Vicat Softening Temperature (Rate B)

Grand Mean Sample R17: 102.46 Degrees C    Grand Mean Sample R18: 102.13 Degrees C



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

## Analysis 750

## Flow Rates of Thermoplastics (190 or 230C/2.16 kg) - G/10 mins

| WebCode | Data Flag | Sample X17 |                      |       | Sample X18 |                      |        | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|--------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV    |            |
| 2AQ9VG  |           | 6.46       | 0.19                 | 0.88  | 6.38       | 0.11                 | 0.52   | TO         |
| 2EEFPN  |           | 6.40       | 0.13                 | 0.60  | 6.35       | 0.07                 | 0.36   | TO         |
| 3FJJQW  |           | 5.91       | -0.36                | -1.66 | 5.98       | -0.30                | -1.50  | TY         |
| 3H2TKE  |           | 6.60       | 0.33                 | 1.52  | 6.55       | 0.27                 | 1.35   | XX         |
| 3QMJWL  |           | 6.01       | -0.26                | -1.19 | 6.06       | -0.22                | -1.08  | TO         |
| 4WPPH7  |           | 6.44       | 0.17                 | 0.76  | 6.42       | 0.14                 | 0.70   | DY         |
| 4X83NT  |           | 6.18       | -0.09                | -0.41 | 6.13       | -0.15                | -0.73  | TO         |
| 64KXP8  | *         | 6.87       | 0.60                 | 2.74  | 6.83       | 0.55                 | 2.73   | TO         |
| 6AT8CE  |           | 6.20       | -0.07                | -0.32 | 6.35       | 0.07                 | 0.36   | XX         |
| 79F3DR  |           | 6.29       | 0.02                 | 0.09  | 6.24       | -0.04                | -0.19  | TO         |
| 7BQDHY  |           | 6.18       | -0.09                | -0.43 | 6.32       | 0.04                 | 0.22   | GO         |
| 7BZZFN  |           | 6.03       | -0.24                | -1.10 | 6.08       | -0.20                | -1.01  | TO         |
| 7KGDYR  |           | 6.33       | 0.06                 | 0.27  | 6.23       | -0.05                | -0.25  | DY         |
| 7YFZ66  |           | 6.20       | -0.07                | -0.32 | 6.20       | -0.08                | -0.39  | KA         |
| 829AK3  |           | 6.18       | -0.09                | -0.44 | 6.19       | -0.09                | -0.44  | XX         |
| 8B7FNQ  |           | 6.39       | 0.12                 | 0.53  | 6.33       | 0.05                 | 0.26   | TO         |
| 8KA6C3  |           | 6.25       | -0.02                | -0.09 | 6.20       | -0.08                | -0.39  | TO         |
| 8U2XZW  |           | 5.81       | -0.46                | -2.12 | 5.89       | -0.39                | -1.92  | TO         |
| 9C68WP  | X         | 6.90       | 0.63                 | 2.90  | 6.20       | -0.08                | -0.39  | TY         |
| 9DF8TF  |           | 5.82       | -0.45                | -2.07 | 5.96       | -0.32                | -1.60  | TO         |
| AGBUUR  | *         | 6.25       | -0.02                | -0.09 | 6.05       | -0.23                | -1.13  | TO         |
| AGQAYA  |           | 6.23       | -0.04                | -0.20 | 6.32       | 0.04                 | 0.21   | TO         |
| AHCQH9  |           | 6.35       | 0.08                 | 0.37  | 6.35       | 0.07                 | 0.36   | TO         |
| ANYY3B  |           | 6.45       | 0.18                 | 0.85  | 6.55       | 0.27                 | 1.33   | TO         |
| BJFGWY  |           | 6.30       | 0.03                 | 0.14  | 6.30       | 0.02                 | 0.11   | DY         |
| C7FNQ7  |           | 6.25       | -0.02                | -0.09 | 6.30       | 0.02                 | 0.11   | TO         |
| CEAFRR  |           | 6.20       | -0.07                | -0.31 | 6.22       | -0.06                | -0.27  | GO         |
| CVZYNL  |           | 6.78       | 0.51                 | 2.35  | 6.68       | 0.40                 | 2.00   | KA         |
| D2BJX4  | X         | 5.42       | -0.85                | -3.93 | 4.02       | -2.26                | -11.21 | TO         |
| D4U867  |           | 6.20       | -0.07                | -0.32 | 6.20       | -0.08                | -0.39  | XX         |
| D7Z7G8  |           | 6.30       | 0.03                 | 0.14  | 6.35       | 0.07                 | 0.36   | TO         |
| DMWH97  | X         | 5.75       | -0.52                | -2.39 | 6.15       | -0.13                | -0.64  | TO         |



## Analysis 750

## Flow Rates of Thermoplastics (190 or 230C/2.16 kg) - G/10 mins

| WebCode | Data Flag | Sample X17 |                      |       | Sample X18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| DTXNLE  | X         | 5.88       | -0.39                | -1.82 | 6.75       | 0.47                 | 2.31  | TO         |
| DYLEX2  |           | 6.25       | -0.02                | -0.08 | 6.30       | 0.03                 | 0.13  | GO         |
| E4B8NQ  |           | 6.15       | -0.12                | -0.55 | 6.15       | -0.13                | -0.64 | TO         |
| E99RUV  |           | 6.25       | -0.02                | -0.09 | 6.30       | 0.02                 | 0.11  | TO         |
| FEZNG4  |           | 6.18       | -0.09                | -0.42 | 6.16       | -0.12                | -0.58 | TO         |
| FZZU2X  | X         | 5.44       | -0.83                | -3.84 | 5.98       | -0.30                | -1.50 | TO         |
| G7W6F2  |           | 6.30       | 0.03                 | 0.14  | 6.40       | 0.12                 | 0.60  | KA         |
| GQDM7M  |           | 6.28       | 0.01                 | 0.05  | 6.33       | 0.05                 | 0.23  | WZ         |
| GRYH6B  |           | 6.31       | 0.04                 | 0.19  | 6.26       | -0.02                | -0.09 | DY         |
| HL7WE6  |           | 6.25       | -0.02                | -0.09 | 6.24       | -0.04                | -0.19 | TO         |
| J63XLG  | *         | 6.27       | 0.00                 | 0.02  | 6.49       | 0.22                 | 1.07  | TO         |
| J77L7C  |           | 6.06       | -0.21                | -0.97 | 6.00       | -0.27                | -1.36 | QT         |
| JJAR9B  | *         | 5.60       | -0.67                | -3.08 | 5.75       | -0.53                | -2.62 | TO         |
| JQGQ3R  |           | 6.20       | -0.07                | -0.32 | 6.25       | -0.03                | -0.14 | TO         |
| KGZM7T  | X         | 5.48       | -0.79                | -3.63 | 6.10       | -0.18                | -0.88 | KA         |
| KPUXCE  |           | 6.01       | -0.26                | -1.21 | 5.99       | -0.28                | -1.41 | TM         |
| LJXLN3  | *         | 6.84       | 0.57                 | 2.61  | 6.76       | 0.48                 | 2.39  | TO         |
| LQFCAL  |           | 6.28       | 0.01                 | 0.05  | 6.28       | 0.00                 | -0.02 | TO         |
| MWLE3Q  |           | 6.24       | -0.03                | -0.14 | 6.25       | -0.03                | -0.14 | TO         |
| N9JZAC  |           | 6.26       | -0.01                | -0.04 | 6.26       | -0.02                | -0.09 | XX         |
| NMG3K7  |           | 5.79       | -0.48                | -2.23 | 5.90       | -0.38                | -1.90 | XX         |
| NNAHU9  |           | 6.27       | 0.00                 | -0.02 | 6.19       | -0.09                | -0.46 | TY         |
| NXT8D3  |           | 6.35       | 0.08                 | 0.35  | 6.37       | 0.09                 | 0.45  | TO         |
| PPR6PJ  |           | 6.35       | 0.08                 | 0.37  | 6.20       | -0.08                | -0.39 | TO         |
| PYQDDJ  |           | 6.40       | 0.13                 | 0.58  | 6.38       | 0.10                 | 0.48  | TO         |
| Q7LDF   |           | 6.32       | 0.05                 | 0.23  | 6.34       | 0.06                 | 0.31  | CE         |
| QATRCN  |           | 6.30       | 0.03                 | 0.13  | 6.38       | 0.10                 | 0.50  | CE         |
| QECJ77  |           | 6.35       | 0.08                 | 0.37  | 6.50       | 0.22                 | 1.10  | TO         |
| QWAXDJ  |           | 6.20       | -0.07                | -0.31 | 6.26       | -0.02                | -0.09 | DY         |
| R9W87N  |           | 6.70       | 0.43                 | 1.98  | 6.55       | 0.27                 | 1.35  | TO         |
| RZHFLK  | X         | 6.00       | -0.27                | -1.24 | 6.30       | 0.02                 | 0.11  | DY         |
| TE732L  |           | 6.25       | -0.02                | -0.07 | 6.27       | 0.00                 | -0.02 | TO         |

Analysis 750

Flow Rates of Thermoplastics (190 or 230C/2.16 kg) - G/10 mins

| WebCode | Data Flag | Sample X17 |                      |       | Sample X18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| U7WGQC  |           | 6.10       | -0.17                | -0.77 | 6.09       | -0.19                | -0.93 | GO         |
| UBFG4H  |           | 6.40       | 0.13                 | 0.60  | 6.40       | 0.12                 | 0.60  | TO         |
| UPHY8   |           | 5.98       | -0.29                | -1.36 | 5.94       | -0.34                | -1.70 | XX         |
| UYQQ6A  |           | 6.44       | 0.17                 | 0.76  | 6.43       | 0.15                 | 0.75  | TO         |
| V9V3TQ  |           | 6.60       | 0.33                 | 1.52  | 6.60       | 0.32                 | 1.59  | TO         |
| VEKQDL  |           | 6.32       | 0.05                 | 0.21  | 6.17       | -0.11                | -0.54 | DY         |
| VQR76P  |           | 6.55       | 0.28                 | 1.29  | 6.50       | 0.22                 | 1.10  | DY         |
| WMLJTR  |           | 6.24       | -0.03                | -0.16 | 6.24       | -0.04                | -0.19 | DY         |
| WWYMCE  |           | 6.35       | 0.08                 | 0.37  | 6.45       | 0.17                 | 0.85  | AT         |
| XCNH7Q  | X         | 5.65       | -0.62                | -2.85 | 6.15       | -0.13                | -0.64 | TO         |
| XHC3JM  | *         | 6.09       | -0.18                | -0.84 | 5.93       | -0.35                | -1.72 | CE         |
| XJHJGQ  |           | 6.38       | 0.11                 | 0.49  | 6.40       | 0.12                 | 0.58  | TO         |
| Y3YLVW  |           | 6.25       | -0.02                | -0.09 | 6.45       | 0.17                 | 0.85  | DY         |
| Y4Q6QC  |           | 6.40       | 0.13                 | 0.60  | 6.40       | 0.12                 | 0.60  | TO         |
| YAQTT9  |           | 6.10       | -0.17                | -0.78 | 6.00       | -0.28                | -1.38 | TO         |
| YBREZQ  |           | 6.20       | -0.07                | -0.32 | 6.30       | 0.02                 | 0.11  | DY         |
| Z6VV3K  |           | 6.44       | 0.17                 | 0.80  | 6.45       | 0.17                 | 0.85  | CS         |
| ZFZPNX  |           | 6.30       | 0.03                 | 0.14  | 6.35       | 0.07                 | 0.36  | TO         |

| Summary Statistics                                  |       |               |               |
|---|-------|---------------|---------------|
| Grand Means   | 6.270 | grams/10 mins | 6.278         |
|   |       |               | grams/10 mins |
| Std Dev Btwn Labs                                   | 0.217 | grams/10 mins | 0.202         |
|   |       |               | grams/10 mins |
| Statistics based on 74 of 82 reporting participants |       |               |               |

Sample X17: HDPE & Sample X18: HDPE

## Analysis 750

## Flow Rates of Thermoplastics (190 or 230C/2.16 kg) - G/10 mins

**Comments on assigned Data Flags for Test #750**

9C68WP (X) - Inconsistent in testing between samples, data for Sample X17 are high. Also Inconsistent in testing within Sample X18.

D2BJX4 (X) - Data for both samples are low.

DMWH97 (X) - Inconsistent in testing between samples.

DTXNLE (X) - Inconsistent in testing between samples and inconsistent in testing within Sample X17.

FZZU2X (X) - Inconsistent in testing between samples, data for Sample X17 are low.

KGZM7T (X) - Inconsistent in testing between samples, data for Sample X17 are low. Also Inconsistent in testing within Sample X17.

RZHFLK (X) - Inconsistent in testing between samples.

XCNH7Q (X) - Inconsistent in testing between samples, data for Sample X17 are low.

**Instrument Code List as Reported by the Labs**

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(DY) - Dynisco

(GO) - Gottfert

(KA) - Kayeness

(QT) - Qualitest

(TM) - TMI

(TO) - Tinius Olsen

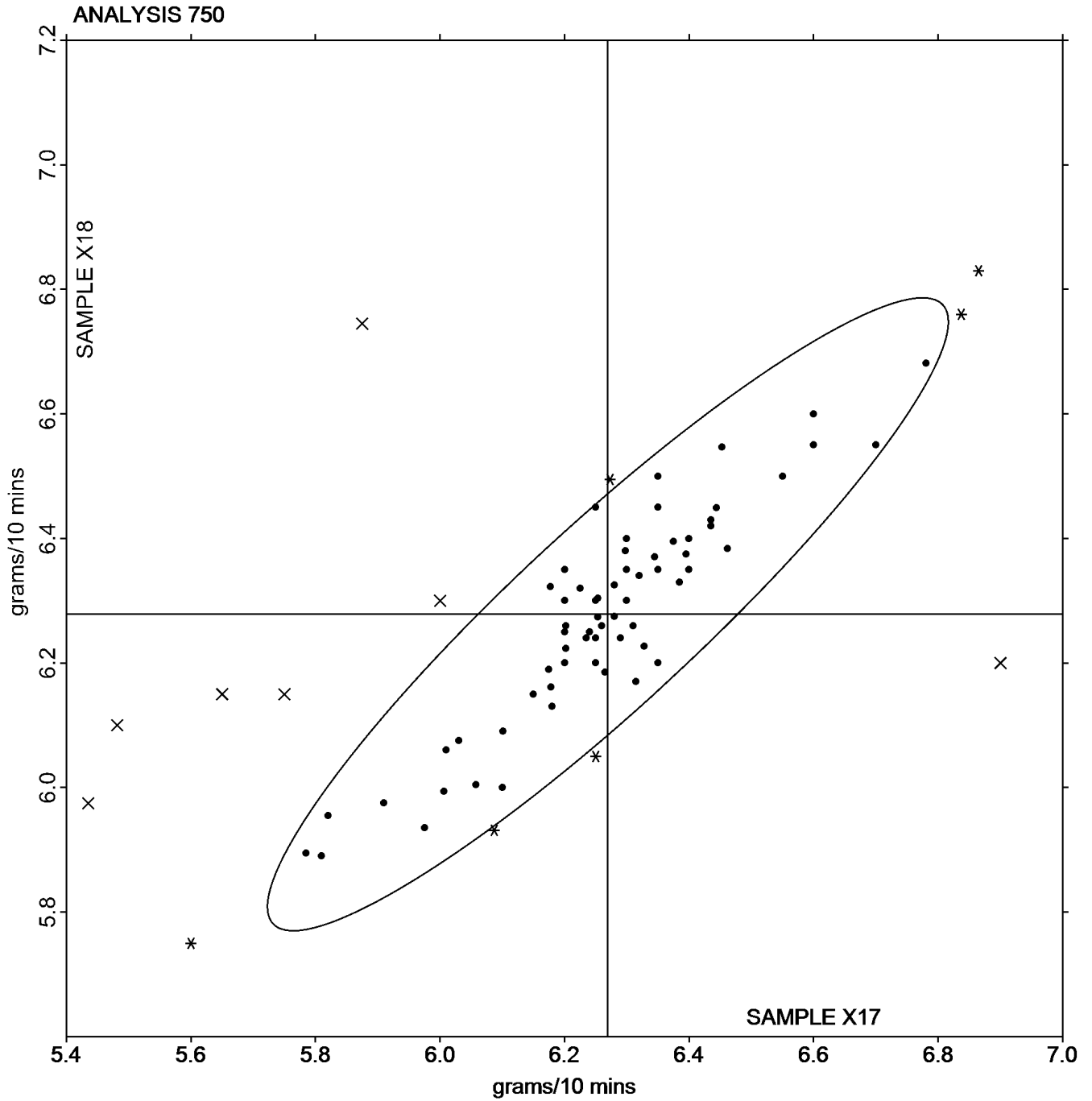
(TY) - Toyoseiki Seisakusho

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

Analysis 750  
Flow Rates of Thermoplastics (190 or 230C/2.16 kg) - G/10 mins

Grand Mean Sample X17: 6.2695 grams/10 mins    Grand Mean Sample X18: 6.2783 grams/10 mins



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

## Analysis 718

## Specific Gravity - sp gr 23/23 C

| WebCode | Data Flag | Sample T17 |                      |       | Sample T18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2CRFPN  |           | 1.14510    | 0.00085              | 0.41  | 1.14367    | -0.00074             | -0.42 | XX         |
| 2EQDQG  |           | 1.14597    | 0.00171              | 0.82  | 1.14623    | 0.00182              | 1.02  | XX         |
| 2NW2VP  |           | 1.14523    | 0.00098              | 0.47  | 1.14457    | 0.00016              | 0.09  | XX         |
| 3AYYVV  |           | 1.14613    | 0.00188              | 0.90  | 1.14620    | 0.00179              | 1.01  | XX         |
| 3PD7WA  |           | 1.14453    | 0.00028              | 0.13  | 1.14477    | 0.00036              | 0.20  | XX         |
| 3T4HJ8  |           | 1.14073    | -0.00352             | -1.69 | 1.14160    | -0.00281             | -1.58 | XX         |
| 4FJFXP  |           | 1.14217    | -0.00209             | -1.00 | 1.14263    | -0.00178             | -1.00 | XX         |
| 4G6EJ7  |           | 1.14730    | 0.00305              | 1.46  | 1.14630    | 0.00189              | 1.06  | XX         |
| 4YVNXG  |           | 1.14720    | 0.00295              | 1.42  | 1.14677    | 0.00236              | 1.32  | XX         |
| 4Z7TRW  |           | 1.14533    | 0.00108              | 0.52  | 1.14593    | 0.00152              | 0.86  | XX         |
| 66ERGC  |           | 1.14627    | 0.00201              | 0.97  | 1.14663    | 0.00222              | 1.25  | XX         |
| 6B9KQN  | *         | 1.14067    | -0.00359             | -1.72 | 1.14333    | -0.00108             | -0.61 | XX         |
| 6LZXCM  | *         | 1.14373    | -0.00052             | -0.25 | 1.14583    | 0.00142              | 0.80  | XX         |
| 74Z2RJ  |           | 1.14247    | -0.00179             | -0.86 | 1.14385    | -0.00056             | -0.32 | XX         |
| 792MZU  | X         | 1.14133    | -0.00292             | -1.40 | 1.13900    | -0.00541             | -3.04 | XX         |
| 7BD4TX  |           | 1.14790    | 0.00365              | 1.75  | 1.14807    | 0.00366              | 2.06  | XX         |
| 7WUJBQ  |           | 1.14333    | -0.00092             | -0.44 | 1.14317    | -0.00124             | -0.70 | XX         |
| 7ZHV6   |           | 1.14357    | -0.00069             | -0.33 | 1.14353    | -0.00088             | -0.49 | XX         |
| 7ZJ9YA  |           | 1.14603    | 0.00178              | 0.86  | 1.14650    | 0.00209              | 1.17  | XX         |
| 8C6ZPC  |           | 1.14400    | -0.00025             | -0.12 | 1.14400    | -0.00041             | -0.23 | XX         |
| 8GGXAL  |           | 1.14640    | 0.00215              | 1.03  | 1.14640    | 0.00199              | 1.12  | XX         |
| 8HECL6  |           | 1.14077    | -0.00349             | -1.68 | 1.14090    | -0.00351             | -1.97 | XX         |
| 8RBUYT  |           | 1.14560    | 0.00135              | 0.65  | 1.14557    | 0.00116              | 0.65  | XX         |
| 9BX6WD  |           | 1.14653    | 0.00228              | 1.10  | 1.14617    | 0.00176              | 0.99  | XX         |
| 9DAJU4  | X         | 1.14477    | 0.00051              | 0.25  | 1.14220    | -0.00221             | -1.24 | XX         |
| 9RAY32  |           | 1.14290    | -0.00135             | -0.65 | 1.14267    | -0.00174             | -0.98 | XX         |
| AKHU72  |           | 1.14447    | 0.00021              | 0.10  | 1.14383    | -0.00058             | -0.33 | XX         |
| APDYWQ  |           | 1.14540    | 0.00115              | 0.55  | 1.14430    | -0.00011             | -0.06 | XX         |
| AQEA6L  | *         | 1.13950    | -0.00475             | -2.29 | 1.14153    | -0.00288             | -1.62 | XX         |
| ARYFX6  |           | 1.14100    | -0.00325             | -1.56 | 1.14133    | -0.00308             | -1.73 | XX         |
| AW3AQK  |           | 1.14167    | -0.00259             | -1.24 | 1.14300    | -0.00141             | -0.79 | XX         |
| BFWD69  | X         | 1.14200    | -0.00225             | -1.08 | 1.14633    | 0.00192              | 1.08  | XX         |

## Plastics Interlaboratory Testing Program

## Analysis 718

## Specific Gravity - sp gr 23/23 C

| WebCode | Data Flag | Sample T17 |                      |       | Sample T18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| BWYQAX  |           | 1.14360    | -0.00065             | -0.31 | 1.14473    | 0.00032              | 0.18  | XX         |
| BX7WPP  |           | 1.14547    | 0.00121              | 0.58  | 1.14553    | 0.00112              | 0.63  | XX         |
| C9TNXM  |           | 1.14323    | -0.00102             | -0.49 | 1.14437    | -0.00004             | -0.03 | XX         |
| CMPHHR  |           | 1.14530    | 0.00105              | 0.50  | 1.14573    | 0.00132              | 0.74  | XX         |
| D7TRJQ  | X         | 1.13833    | -0.00592             | -2.85 | 1.13733    | -0.00708             | -3.98 | XX         |
| DAWQA4  |           | 1.14226    | -0.00200             | -0.96 | 1.14276    | -0.00165             | -0.93 | XX         |
| DELRMQ  |           | 1.14507    | 0.00081              | 0.39  | 1.14480    | 0.00039              | 0.22  | XX         |
| DKTXU2  |           | 1.14200    | -0.00225             | -1.08 | 1.14333    | -0.00108             | -0.61 | XX         |
| DLBAUP  |           | 1.14207    | -0.00219             | -1.05 | 1.14197    | -0.00244             | -1.37 | XX         |
| DLRN2Y  |           | 1.14170    | -0.00255             | -1.23 | 1.14290    | -0.00151             | -0.85 | XX         |
| EMNFLZ  |           | 1.14067    | -0.00359             | -1.72 | 1.14167    | -0.00274             | -1.54 | XX         |
| EMNRCV  | X         | 1.13847    | -0.00579             | -2.78 | 1.13200    | -0.01241             | -6.98 | XX         |
| EQWJTC  |           | 1.14643    | 0.00218              | 1.05  | 1.14620    | 0.00179              | 1.01  | XX         |
| EVRT6P  |           | 1.14533    | 0.00108              | 0.52  | 1.14500    | 0.00059              | 0.33  | XX         |
| FLJYK2  |           | 1.14089    | -0.00336             | -1.62 | 1.14152    | -0.00289             | -1.63 | XX         |
| FPMZ6R  |           | 1.14497    | 0.00071              | 0.34  | 1.14573    | 0.00132              | 0.74  | XX         |
| FUYJ7T  |           | 1.14597    | 0.00171              | 0.82  | 1.14647    | 0.00206              | 1.16  | XX         |
| GEHHQU  |           | 1.14583    | 0.00158              | 0.76  | 1.14553    | 0.00112              | 0.63  | XX         |
| GLVLC8  | X         | 1.14333    | -0.00092             | -0.44 | 1.14667    | 0.00226              | 1.27  | XX         |
| HKZT8V  |           | 1.14240    | -0.00185             | -0.89 | 1.14240    | -0.00201             | -1.13 | XX         |
| HMJUX8  | *         | 1.14307    | -0.00119             | -0.57 | 1.14167    | -0.00274             | -1.54 | XX         |
| HRNEKZ  |           | 1.14873    | 0.00448              | 2.15  | 1.14770    | 0.00329              | 1.85  | XX         |
| J4GLDG  |           | 1.14647    | 0.00221              | 1.06  | 1.14707    | 0.00266              | 1.49  | XX         |
| JW2J6Z  |           | 1.14577    | 0.00151              | 0.73  | 1.14617    | 0.00176              | 0.99  | XX         |
| K6ACXC  |           | 1.14587    | 0.00161              | 0.78  | 1.14580    | 0.00139              | 0.78  | XX         |
| KC7T78  |           | 1.14460    | 0.00035              | 0.17  | 1.14417    | -0.00024             | -0.14 | XX         |
| KJBJX9  | X         | 1.14417    | -0.00009             | -0.04 | 1.14730    | 0.00289              | 1.62  | XX         |
| LKVYLR  |           | 1.14543    | 0.00118              | 0.57  | 1.14587    | 0.00146              | 0.82  | XX         |
| LX3PCV  | X         | 1.15100    | 0.00674              | 3.24  | 1.15061    | 0.00620              | 3.49  | XX         |
| M2HZX6  |           | 1.14200    | -0.00225             | -1.08 | 1.14300    | -0.00141             | -0.79 | XX         |
| M8LWQL  |           | 1.14620    | 0.00195              | 0.94  | 1.14563    | 0.00122              | 0.69  | XX         |
| M9AMGL  |           | 1.14282    | -0.00144             | -0.69 | 1.14239    | -0.00202             | -1.14 | XX         |

## Analysis 718

## Specific Gravity - sp gr 23/23 C

| WebCode | Data Flag | Sample T17 |                      |       | Sample T18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| N8Z9NC  |           | 1.14667    | 0.00241              | 1.16  | 1.14630    | 0.00189              | 1.06  | XX         |
| NT7Q8T  |           | 1.14490    | 0.00065              | 0.31  | 1.14407    | -0.00034             | -0.19 | XX         |
| NZJA8F  | X         | 1.14450    | 0.00025              | 0.12  | 1.15457    | 0.01016              | 5.71  | XX         |
| NZK2FD  |           | 1.14560    | 0.00135              | 0.65  | 1.14530    | 0.00089              | 0.50  | XX         |
| P34FGQ  |           | 1.14500    | 0.00075              | 0.36  | 1.14533    | 0.00092              | 0.52  | XX         |
| PWW9J4  |           | 1.14253    | -0.00172             | -0.83 | 1.14173    | -0.00268             | -1.51 | XX         |
| QEP8CW  |           | 1.14320    | -0.00105             | -0.51 | 1.14403    | -0.00038             | -0.21 | XX         |
| QRWC8X  |           | 1.14540    | 0.00115              | 0.55  | 1.14467    | 0.00026              | 0.14  | XX         |
| QYKQM6  |           | 1.14383    | -0.00042             | -0.20 | 1.14373    | -0.00068             | -0.38 | XX         |
| RCY4X4  |           | 1.14467    | 0.00041              | 0.20  | 1.14433    | -0.00008             | -0.04 | XX         |
| RGZR49  |           | 1.14640    | 0.00215              | 1.03  | 1.14557    | 0.00116              | 0.65  | XX         |
| RKFZVZ  | X         | 1.12767    | -0.01659             | -7.97 | 1.13533    | -0.00908             | -5.11 | XX         |
| RPXXZ2  |           | 1.14433    | 0.00008              | 0.04  | 1.14367    | -0.00074             | -0.42 | XX         |
| TDXUW8  | X         | 1.15103    | 0.00678              | 3.26  | 1.15457    | 0.01016              | 5.71  | XX         |
| TGLLHG  |           | 1.14307    | -0.00119             | -0.57 | 1.14440    | -0.00001             | -0.01 | XX         |
| U2NBGQ  |           | 1.14493    | 0.00068              | 0.33  | 1.14487    | 0.00046              | 0.26  | XX         |
| URZG3C  |           | 1.14667    | 0.00241              | 1.16  | 1.14567    | 0.00126              | 0.71  | XX         |
| VCTBWP  |           | 1.14603    | 0.00178              | 0.86  | 1.14603    | 0.00162              | 0.91  | XX         |
| VDRUTY  |           | 1.14470    | 0.00045              | 0.22  | 1.14540    | 0.00099              | 0.56  | XX         |
| VW4EVW  |           | 1.14567    | 0.00141              | 0.68  | 1.14590    | 0.00149              | 0.84  | XX         |
| W3EYUW  | *         | 1.14000    | -0.00425             | -2.04 | 1.14000    | -0.00441             | -2.48 | XX         |
| W4X4P4  |           | 1.14523    | 0.00098              | 0.47  | 1.14557    | 0.00116              | 0.65  | XX         |
| WFAYZF  | *         | 1.13800    | -0.00625             | -3.01 | 1.13967    | -0.00474             | -2.67 | XX         |
| WPKKDL  | X         | 1.13700    | -0.00725             | -3.49 | 1.13633    | -0.00808             | -4.54 | XX         |
| X8VRZJ  |           | 1.14400    | -0.00025             | -0.12 | 1.14300    | -0.00141             | -0.79 | XX         |
| XUTXJ4  |           | 1.14285    | -0.00140             | -0.67 | 1.14455    | 0.00014              | 0.08  | XX         |
| XW7UQL  |           | 1.14400    | -0.00025             | -0.12 | 1.14400    | -0.00041             | -0.23 | XX         |
| YJH3T8  |           | 1.14630    | 0.00205              | 0.98  | 1.14583    | 0.00142              | 0.80  | XX         |
| YKJ8KT  |           | 1.14367    | -0.00059             | -0.28 | 1.14400    | -0.00041             | -0.23 | XX         |
| YL86TE  |           | 1.14500    | 0.00075              | 0.36  | 1.14500    | 0.00059              | 0.33  | XX         |
| ZL39RU  | X         | 1.13860    | -0.00565             | -2.72 | 1.13470    | -0.00971             | -5.46 | XX         |

Analysis 718  
Specific Gravity - sp gr 23/23 C

| WebCode | Data Flag | Sample T17 |                      |       | Sample T18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| ZP62X2  |           | 1.14437    | 0.00011              | 0.05  | 1.14413    | -0.00028             | -0.16 | XX         |
| ZZ69J4  | X         | 1.13777    | -0.00649             | -3.12 | 1.13207    | -0.01234             | -6.94 | XX         |

| Summary Statistics                                  |          |               |               |
|---|----------|---------------|---------------|
| Grand Means   | 1.144254 | sp gr 23/23 C | 1.144411      |
|   |          |               | sp gr 23/23 C |
| Std Dev Btwn Labs                                   | 0.002080 | sp gr 23/23 C | 0.001778      |
|   |          |               | sp gr 23/23 C |
| Statistics based on 83 of 97 reporting participants |          |               |               |

Sample T17: ABS/PC & Sample T18: ABS/PC

**Comments on assigned Data Flags for Test #718**

- 792MZU (X) - Inconsistent in testing between samples, data for Sample T18 are low. Also Inconsistent in testing within Sample T18.
- 9DAJU4 (X) - Inconsistent in testing between samples.
- BFWD69 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample T18.
- D7TRJQ (X) - Data for both samples are low. Also Inconsistent in testing within Sample T18.
- EMNRCV (X) - Data for both samples are low. Also Inconsistent in testing within both samples.
- GLVLC8 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample T18.
- KJBX9 (X) - Inconsistent in testing between samples.
- LX3PCV (X) - Data for both samples are high.
- NZJA8F (X) - Inconsistent in testing between samples, data for Sample T18 are high. Also Inconsistent in testing within Sample T18.
- RKFZVZ (X) - Data for both samples are low. Also Inconsistent in testing within both samples.
- TDXUW8 (X) - Data for both samples are high. Also Inconsistent in testing within both samples.
- WPKKDL (X) - Data for both samples are low. Also Inconsistent in testing within Sample T18.
- ZL39RU (X) - Inconsistent in testing between samples, data for Sample T18 are low. Also Inconsistent in testing within both samples.
- ZZ69J4 (X) - Data for both samples are low. Also Inconsistent in testing within both samples.

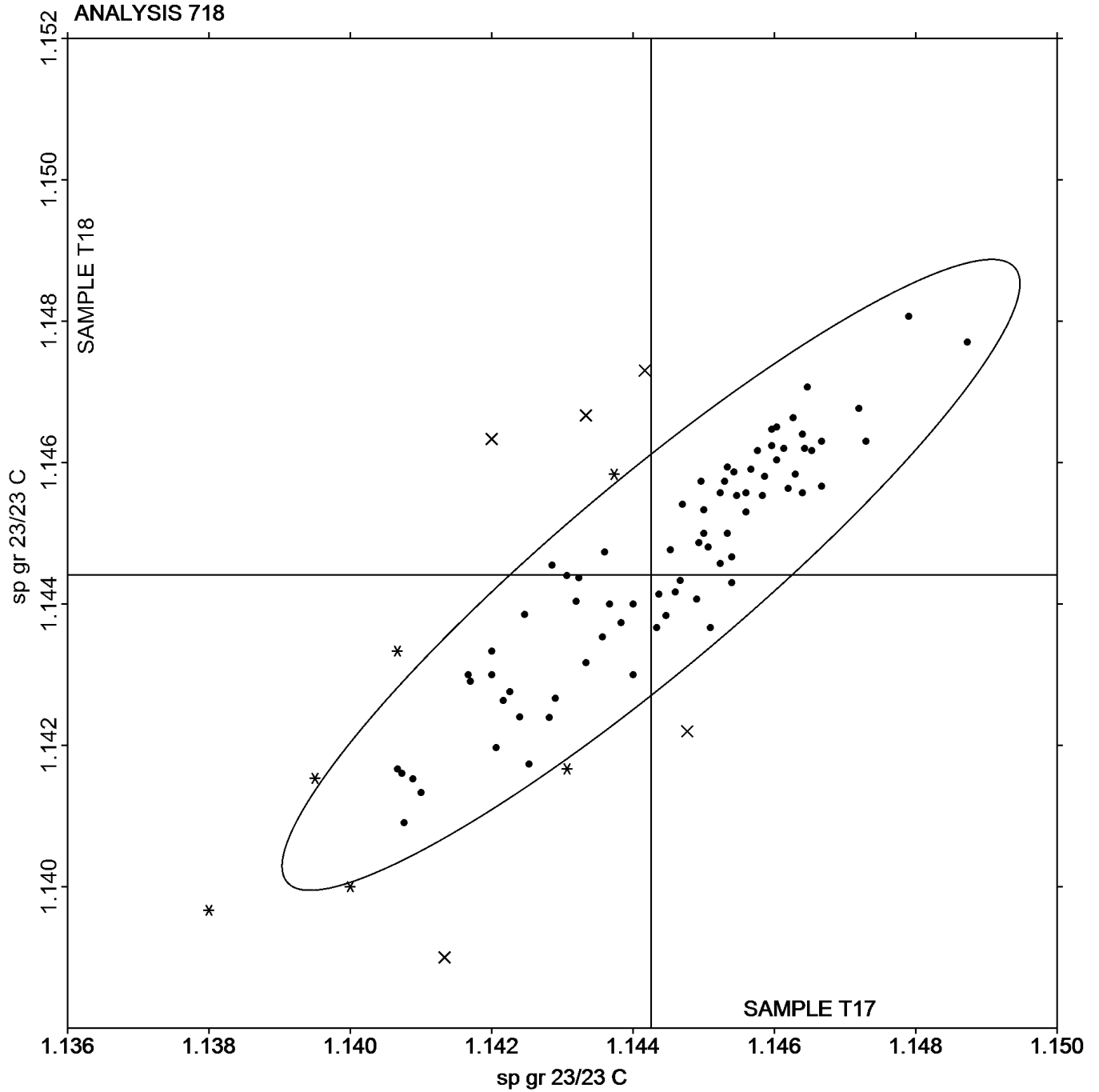
**Instrument Code List as Reported by the Labs**

(XX) - Instrument Codes not used by CTS at this time



Analysis 718  
Specific Gravity - sp gr 23/23 C

Grand Mean Sample T17: 1.1443 sp gr 23/23 C    Grand Mean Sample T18: 1.1444 sp gr 23/23 C



**Plastics Interlaboratory Testing Program**  
**Analysis 757**  
**Ash Content in Thermoplastics - Percent**

| WebCode | Data Flag | Sample L17 |                      |       | Sample L18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2K9U2F  |           | 14.960     | 0.057                | 0.43  | 15.130     | 0.251                | 1.60  | XX         |
| 3AR27D  |           | 15.105     | 0.202                | 1.51  | 14.795     | -0.084               | -0.53 | XX         |
| 3EYXPA  |           | 14.785     | -0.118               | -0.88 | 14.780     | -0.099               | -0.63 | XX         |
| 4AK3F9  |           | 14.900     | -0.003               | -0.02 | 14.895     | 0.016                | 0.10  | XX         |
| 6H4K84  | *         | 14.735     | -0.168               | -1.25 | 15.110     | 0.231                | 1.47  | XX         |
| 7464RU  |           | 15.010     | 0.107                | 0.80  | 14.870     | -0.009               | -0.05 | XX         |
| 7GPQHX  | X         | 14.570     | -0.333               | -2.48 | 14.340     | -0.539               | -3.42 | XX         |
| 7RM79F  |           | 15.085     | 0.182                | 1.36  | 14.745     | -0.134               | -0.85 | XX         |
| 7W22NM  |           | 14.990     | 0.087                | 0.65  | 14.957     | 0.078                | 0.50  | XX         |
| 7ZN7BE  | *         | 14.565     | -0.338               | -2.52 | 14.535     | -0.344               | -2.18 | XX         |
| 82RACG  |           | 14.910     | 0.007                | 0.06  | 15.080     | 0.201                | 1.28  | XX         |
| 89UBYQ  |           | 14.765     | -0.138               | -1.03 | 14.900     | 0.021                | 0.14  | XX         |
| 8HKZBH  |           | 14.750     | -0.153               | -1.14 | 14.800     | -0.079               | -0.50 | XX         |
| 8THF9V  |           | 14.715     | -0.188               | -1.40 | 14.545     | -0.334               | -2.12 | XX         |
| BWATN3  |           | 14.800     | -0.103               | -0.77 | 15.000     | 0.121                | 0.77  | XX         |
| C2VGLX  |           | 14.860     | -0.043               | -0.32 | 15.000     | 0.121                | 0.77  | XX         |
| C4DUU6  |           | 14.925     | 0.022                | 0.17  | 15.005     | 0.126                | 0.80  | XX         |
| C66B2W  |           | 15.110     | 0.207                | 1.55  | 14.770     | -0.109               | -0.69 | XX         |
| CWMETF  |           | 14.840     | -0.063               | -0.47 | 14.920     | 0.041                | 0.26  | XX         |
| D3NTQD  |           | 15.075     | 0.172                | 1.29  | 14.975     | 0.096                | 0.61  | XX         |
| D3ZL6H  |           | 15.065     | 0.162                | 1.21  | 14.980     | 0.101                | 0.64  | XX         |
| DUBTAX  |           | 14.760     | -0.143               | -1.06 | 14.730     | -0.149               | -0.94 | XX         |
| DWVAEG  |           | 14.865     | -0.038               | -0.28 | 14.855     | -0.024               | -0.15 | XX         |
| DXB6V9  |           | 14.935     | 0.032                | 0.24  | 14.995     | 0.116                | 0.74  | XX         |
| EBYY87  |           | 14.795     | -0.108               | -0.80 | 14.665     | -0.214               | -1.36 | XX         |
| F4VPGH  |           | 14.975     | 0.072                | 0.54  | 14.895     | 0.016                | 0.10  | XX         |
| F7ECZA  |           | 14.705     | -0.198               | -1.47 | 14.750     | -0.129               | -0.82 | XX         |
| FARQ3B  |           | 15.118     | 0.216                | 1.61  | 15.065     | 0.186                | 1.18  | XX         |
| FLVQBL  |           | 14.850     | -0.053               | -0.39 | 14.900     | 0.021                | 0.14  | XX         |
| FTC8XJ  |           | 14.790     | -0.113               | -0.84 | 14.825     | -0.054               | -0.34 | XX         |
| FWKVPZ  |           | 14.890     | -0.013               | -0.09 | 14.760     | -0.119               | -0.75 | XX         |
| FZU83J  |           | 15.011     | 0.109                | 0.81  | 14.876     | -0.003               | -0.02 | XX         |

**Plastics Interlaboratory Testing Program**  
**Analysis 757**  
**Ash Content in Thermoplastics - Percent**

| WebCode | Data Flag | Sample L17 |                      |       | Sample L18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| HZXBCR  |           | 15.060     | 0.157                | 1.17  | 15.040     | 0.161                | 1.03  | XX         |
| J9XG4T  |           | 14.910     | 0.007                | 0.06  | 14.950     | 0.071                | 0.45  | XX         |
| K7HVYL  |           | 14.900     | -0.003               | -0.02 | 14.700     | -0.179               | -1.14 | XX         |
| LDBNBJ  |           | 15.020     | 0.117                | 0.88  | 14.770     | -0.109               | -0.69 | XX         |
| LQFL79  | *         | 14.600     | -0.303               | -2.26 | 14.425     | -0.454               | -2.88 | XX         |
| LRABJP  |           | 15.110     | 0.207                | 1.55  | 14.955     | 0.076                | 0.49  | XX         |
| M96QMZ  |           | 15.000     | 0.098                | 0.73  | 15.134     | 0.256                | 1.63  | XX         |
| NKBQVL  |           | 15.040     | 0.137                | 1.03  | 14.850     | -0.029               | -0.18 | XX         |
| PP6E3X  |           | 14.980     | 0.077                | 0.58  | 14.995     | 0.116                | 0.74  | XX         |
| QUAVPR  |           | 14.880     | -0.023               | -0.17 | 15.115     | 0.236                | 1.50  | XX         |
| R6K6KR  |           | 14.850     | -0.053               | -0.39 | 14.950     | 0.072                | 0.45  | XX         |
| T9FZFI  |           | 14.950     | 0.047                | 0.35  | 14.960     | 0.081                | 0.52  | XX         |
| TG6FC9  |           | 14.763     | -0.140               | -1.04 | 14.865     | -0.014               | -0.09 | XX         |
| TLZPFQ  | X         | 14.890     | -0.013               | -0.09 | 18.070     | 3.191                | 20.28 | XX         |
| U3K49H  |           | 14.820     | -0.083               | -0.62 | 15.020     | 0.141                | 0.90  | XX         |
| U7ZUHE  |           | 14.905     | 0.002                | 0.02  | 14.675     | -0.204               | -1.29 | XX         |
| UVE8AQ  |           | 14.990     | 0.087                | 0.65  | 14.870     | -0.009               | -0.05 | XX         |
| VH2D26  |           | 14.785     | -0.118               | -0.88 | 14.780     | -0.099               | -0.63 | XX         |
| VL3KKH  |           | 14.645     | -0.258               | -1.92 | 14.900     | 0.021                | 0.14  | XX         |
| VPADNG  |           | 14.955     | 0.052                | 0.39  | 14.935     | 0.056                | 0.36  | XX         |
| VRBGE8  |           | 14.865     | -0.038               | -0.28 | 14.580     | -0.299               | -1.90 | XX         |
| WGT39U  |           | 15.050     | 0.147                | 1.10  | 14.750     | -0.129               | -0.82 | XX         |
| XARLC3  |           | 14.778     | -0.125               | -0.93 | 14.864     | -0.015               | -0.09 | XX         |
| YCTGLC  |           | 15.045     | 0.142                | 1.06  | 15.085     | 0.206                | 1.31  | XX         |
| YEATEV  |           | 15.058     | 0.155                | 1.16  | 15.014     | 0.135                | 0.86  | XX         |
| YNGMA3  |           | 14.890     | -0.013               | -0.09 | 14.875     | -0.004               | -0.02 | XX         |
| YX9KXA  |           | 14.980     | 0.077                | 0.58  | 15.140     | 0.261                | 1.66  | XX         |
| YZLFCV  |           | 15.000     | 0.097                | 0.73  | 14.810     | -0.069               | -0.44 | XX         |
| ZRMYRP  |           | 14.780     | -0.123               | -0.91 | 14.725     | -0.154               | -0.98 | XX         |

**Plastics Interlaboratory Testing Program**  
**Analysis 757**  
**Ash Content in Thermoplastics - Percent**

**Summary Statistics**

Grand Means

14.9026 Percent

14.8786 Percent

Std Dev Btwn Labs

0.1341 Percent

0.1573 Percent

Statistics based on 59 of 61 reporting participants

Sample L17: PBT &amp; Sample L18: PBT

**Comments on assigned Data Flags for Test #757**

7GPQH (X) - Low data for Sample L18.

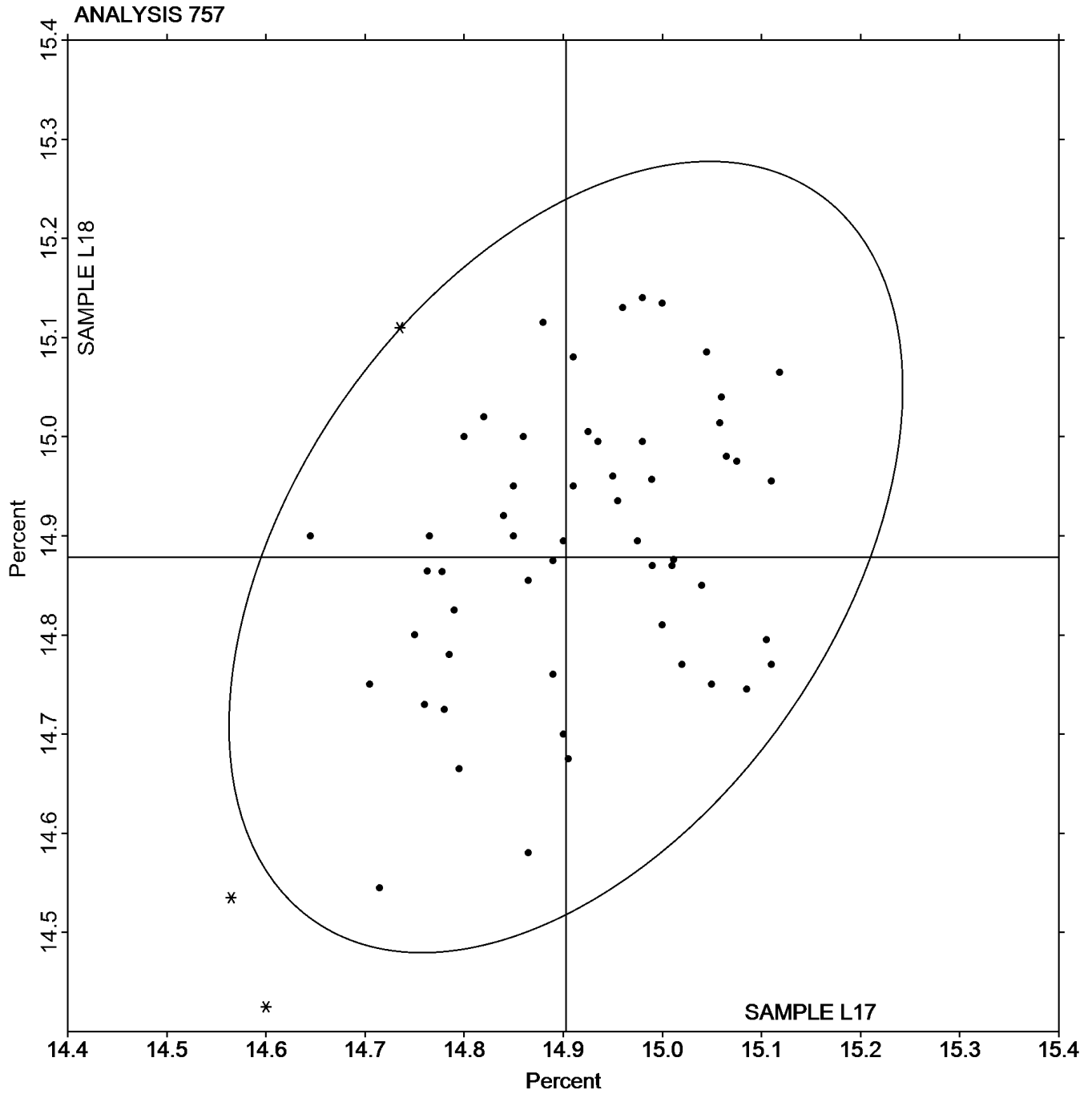
TLZPFQ (X) - High data for Sample L18.

**Instrument Code List as Reported by the Labs**

(XX) - Instrument Codes not used by CTS at this time

Plastics Interlaboratory Testing Program  
Analysis 757  
Ash Content in Thermoplastics - Percent

Grand Mean Sample L17: 14.903 Percent    Grand Mean Sample L18: 14.879 Percent



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

**Plastics Interlaboratory Testing Program**  
**Analysis 770**  
**Tensile Stress at Yield, Film Samples - psi**

| WebCode | Data Flag | Sample B17 |                      |       | Sample B18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 283EVE  |           | 1,927      | 329                  | 2.23  | 1,862      | 277                  | 1.92  | LI         |
| 33AGZW  |           | 1,486      | -113                 | -0.76 | 1,452      | -132                 | -0.91 | XX         |
| 3A8PAQ  |           | 1,516      | -83                  | -0.56 | 1,492      | -92                  | -0.64 | IN         |
| 44JHL2  |           | 1,723      | 125                  | 0.85  | 1,675      | 90                   | 0.62  | TH         |
| 4JE69L  |           | 1,612      | 13                   | 0.09  | 1,635      | 51                   | 0.35  | MT         |
| 67R4B4  |           | 1,736      | 137                  | 0.93  | 1,688      | 104                  | 0.72  | IN         |
| 78H9EG  |           | 1,662      | 63                   | 0.43  | 1,642      | 58                   | 0.40  | IN         |
| 7JN33A  |           | 1,294      | -304                 | -2.07 | 1,261      | -324                 | -2.24 | IN         |
| 8UC86P  |           | 1,580      | -19                  | -0.13 | 1,573      | -12                  | -0.08 | IN         |
| 8YTE2P  |           | 1,517      | -82                  | -0.55 | 1,510      | -75                  | -0.52 | IN         |
| C4YU7W  |           | 1,666      | 68                   | 0.46  | 1,689      | 105                  | 0.72  | IN         |
| CE49JV  |           | 1,597      | -2                   | -0.01 | 1,602      | 18                   | 0.12  | MT         |
| EUDUYY  |           | 1,652      | 53                   | 0.36  | 1,625      | 41                   | 0.28  | TY         |
| EXX2LP  |           | 1,398      | -200                 | -1.36 | 1,387      | -198                 | -1.36 | MT         |
| HT7V72  |           | 1,573      | -26                  | -0.17 | 1,552      | -32                  | -0.22 | IN         |
| K8VA29  |           | 1,390      | -208                 | -1.41 | 1,392      | -192                 | -1.33 | IN         |
| L942PV  |           | 1,604      | 6                    | 0.04  | 1,586      | 1                    | 0.01  | IM         |
| P6TELV  |           | 1,675      | 76                   | 0.52  | 1,728      | 144                  | 0.99  | IN         |
| P9VWLX  |           | 1,765      | 166                  | 1.13  | 1,753      | 169                  | 1.17  | IN         |

**Summary Statistics**

Grand Means

1,598.6 psi

1,584.5 psi

Std Dev Btwn Labs

147.3 psi

144.9 psi

Statistics based on 19 of 19 reporting participants

Sample B17: LDPE &amp; Sample B18: LDPE

**Plastics Interlaboratory Testing Program**  
**Analysis 770**  
**Tensile Stress at Yield, Film Samples - psi**

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**Instrument Code List as Reported by the Labs**

(IM) - Instru-Met Instruments

(IN) - Instron

(LI) - Lloyd Instruments

(MT) - MTS/Sintech

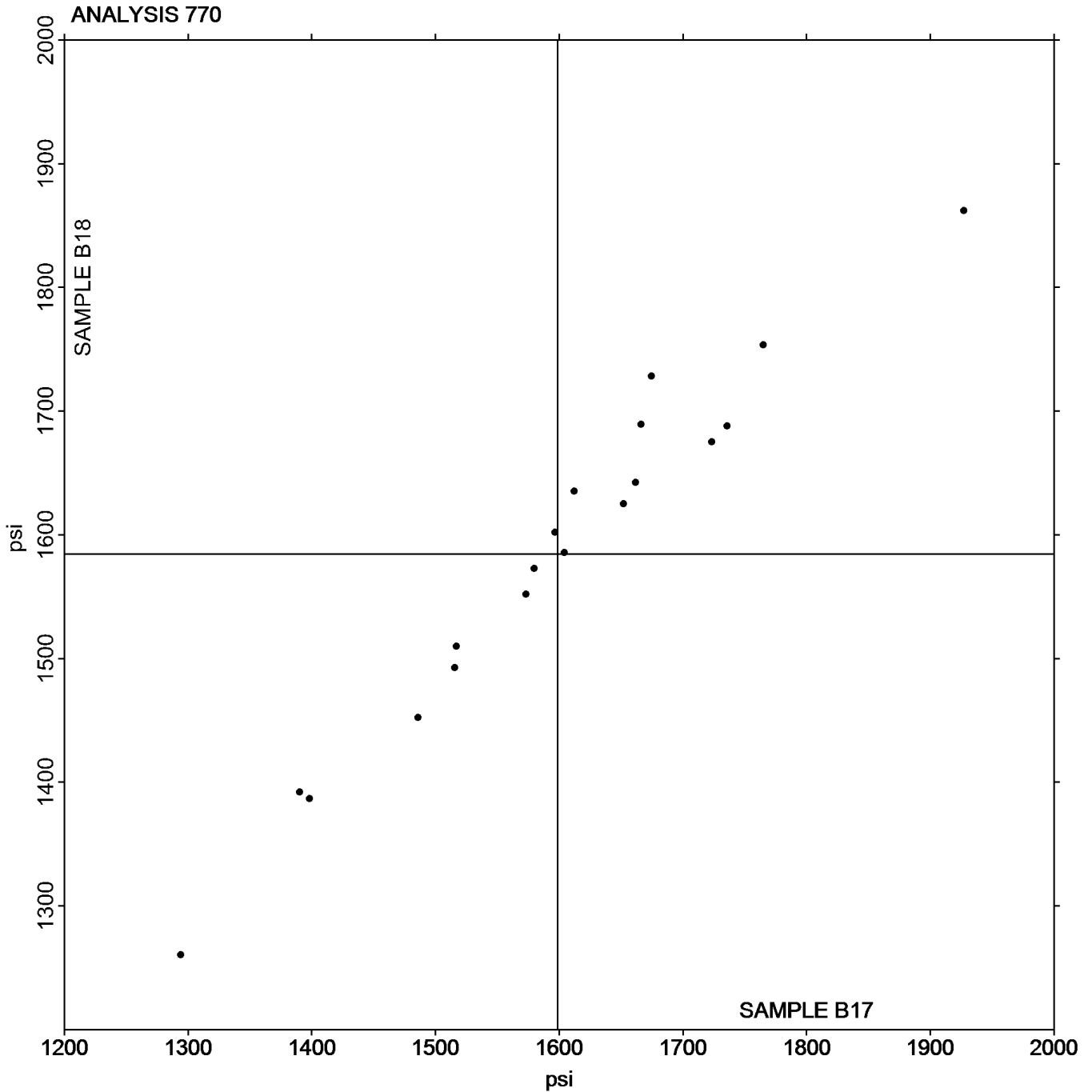
(TH) - Thwing Albert

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 770  
Tensile Stress at Yield, Film Samples - psi

Grand Mean Sample B17: 1,598.65 psi    Grand Mean Sample B18: 1,584.51 psi



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot



**Plastics Interlaboratory Testing Program  
Analysis 771  
Tensile Stress at Break, Film Samples - psi**

| WebCode | Data Flag | Sample B17 |                      |       | Sample B18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2RRBAV  |           | 2,898      | -152                 | -0.53 | 2,717      | -301                 | -0.96 | IN         |
| 3GYDMV  |           | 2,907      | -144                 | -0.50 | 3,055      | 37                   | 0.12  | IN         |
| 4B77RM  |           | 3,125      | 75                   | 0.26  | 3,049      | 31                   | 0.10  | IN         |
| 7C2AQA  |           | 3,171      | 121                  | 0.42  | 3,110      | 93                   | 0.30  | IN         |
| 7EMJLW  |           | 2,936      | -114                 | -0.39 | 2,829      | -189                 | -0.60 | SH         |
| 87DWGA  |           | 3,427      | 376                  | 1.30  | 3,307      | 289                  | 0.92  | LI         |
| 88GHP4  |           | 2,699      | -351                 | -1.21 | 2,706      | -311                 | -0.99 | IN         |
| 9N6Z83  |           | 3,248      | 198                  | 0.68  | 3,344      | 326                  | 1.04  | IN         |
| B8UXUV  |           | 3,015      | -35                  | -0.12 | 2,867      | -151                 | -0.48 | MT         |
| C8NNZV  |           | 3,039      | -11                  | -0.04 | 3,041      | 23                   | 0.07  | MT         |
| CK3ZUU  |           | 3,190      | 139                  | 0.48  | 3,210      | 192                  | 0.61  | TH         |
| D2XJXN  |           | 3,259      | 209                  | 0.72  | 3,276      | 258                  | 0.83  | XX         |
| GDBR99  |           | 3,150      | 100                  | 0.34  | 3,288      | 270                  | 0.86  | IN         |
| JCYKZ   |           | 3,106      | 56                   | 0.19  | 3,095      | 77                   | 0.25  | IM         |
| NAXC8R  |           | 3,133      | 83                   | 0.29  | 3,072      | 54                   | 0.17  | TY         |
| PB4AWH  |           | 2,813      | -237                 | -0.82 | 2,929      | -89                  | -0.28 | IN         |
| QEBR3L  |           | 3,442      | 392                  | 1.35  | 3,363      | 346                  | 1.10  | IN         |
| VKR6AP  |           | 3,342      | 292                  | 1.01  | 3,188      | 170                  | 0.54  | IN         |
| WJHJET  |           | 2,555      | -495                 | -1.71 | 2,316      | -702                 | -2.24 | MT         |
| WY2XAT  |           | 3,325      | 274                  | 0.95  | 3,347      | 329                  | 1.05  | IN         |
| ZM2CGV  |           | 2,276      | -775                 | -2.67 | 2,263      | -755                 | -2.41 | IN         |

| Summary Statistics                                  |         |     |         |
|---|---------|-----|---------|
| Grand Means   | 3,050.3 | psi | 3,017.7 |
| Std Dev Btwn Labs                                   | 289.9   | psi | 313.0   |
| Statistics based on 21 of 21 reporting participants |         |     |         |

Sample B17: LDPE & Sample B18: LDPE

**Plastics Interlaboratory Testing Program**  
**Analysis 771**  
**Tensile Stress at Break, Film Samples - psi**

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**Instrument Code List as Reported by the Labs**

(IM) - Instru-Met Instruments

(LI) - Lloyd Instruments

(SH) - Shimadzu

(TY) - Toyoseiki

(IN) - Instron

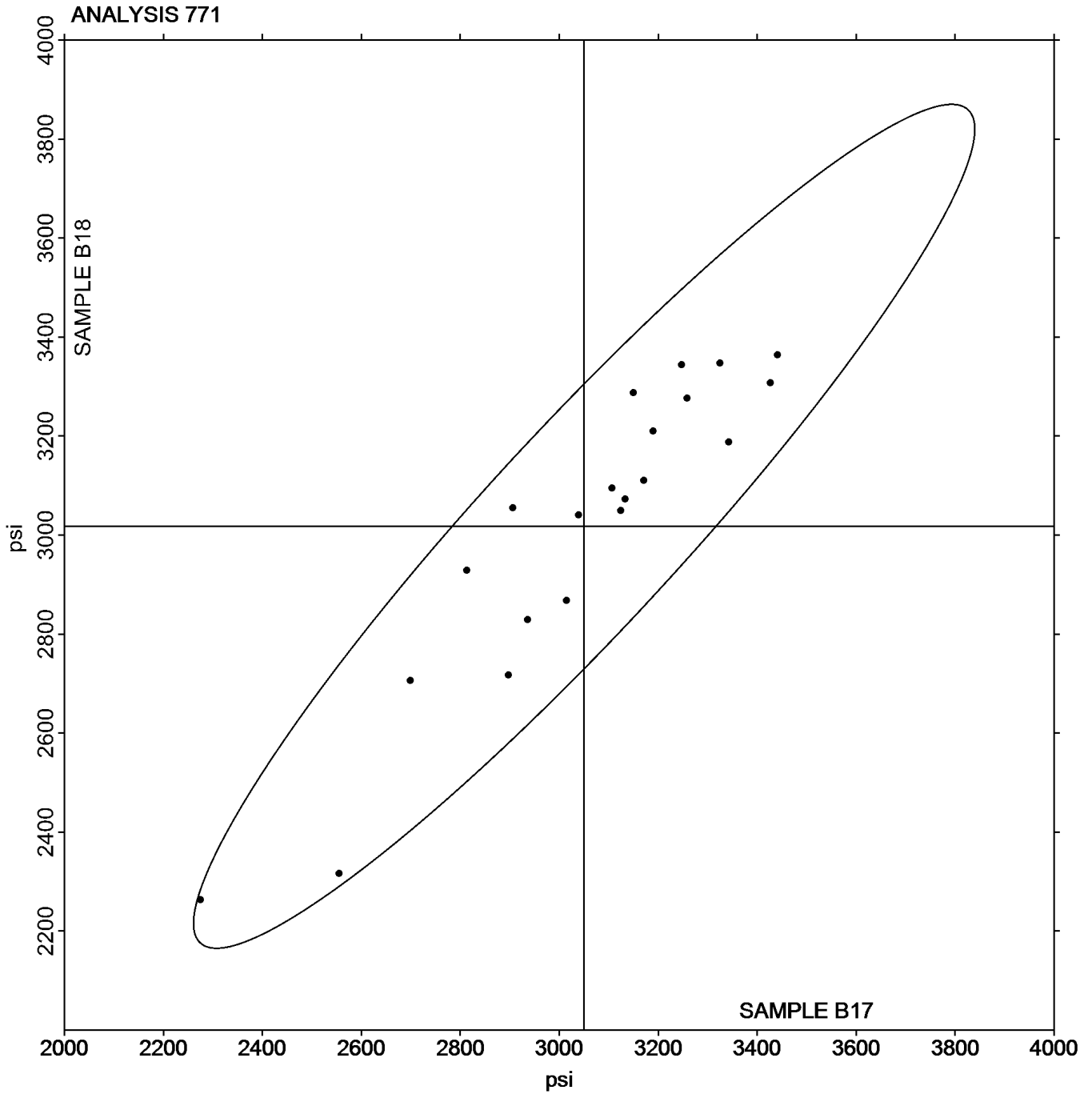
(MT) - MTS/Sintech

(TH) - Thwing Albert

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 771  
Tensile Stress at Break, Film Samples - psi

Grand Mean Sample B17: 3,050.26 psi    Grand Mean Sample B18: 3,017.71 psi



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

**Plastics Interlaboratory Testing Program**  
**Analysis 772**  
**Percent Elongation at Yield, Films**

| WebCode | Data Flag | Sample B17 |                      |       | Sample B18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2PMHFX  |           | 29.74      | -10.07               | -0.31 | 30.04      | -10.76               | -0.32 | IN         |
| 49JU4V  |           | 88.20      | 48.39                | 1.47  | 90.80      | 50.00                | 1.50  | IN         |
| BUMGZB  |           | 11.43      | -28.38               | -0.86 | 11.39      | -29.41               | -0.88 | IN         |
| H8A2HK  |           | 67.40      | 27.58                | 0.84  | 71.25      | 30.44                | 0.91  | XX         |
| HR278A  |           | 23.97      | -15.84               | -0.48 | 28.20      | -12.60               | -0.38 | MT         |
| JDGX3U  |           | 71.52      | 31.70                | 0.96  | 72.20      | 31.39                | 0.94  | IN         |
| JKAN9P  |           | 8.04       | -31.77               | -0.97 | 7.72       | -33.08               | -0.99 | MT         |
| K8EFJZ  |           | 17.48      | -22.33               | -0.68 | 17.04      | -23.76               | -0.71 | IM         |
| P2TKP2  |           | 16.16      | -23.65               | -0.72 | 16.53      | -24.27               | -0.73 | IN         |
| P7KYA7  |           | 104.50     | 64.69                | 1.97  | 105.09     | 64.28                | 1.93  | IN         |
| RRKU3K  |           | 35.80      | -4.01                | -0.12 | 36.51      | -4.29                | -0.13 | IN         |
| TEVRFP  |           | 17.24      | -22.57               | -0.69 | 19.18      | -21.62               | -0.65 | LI         |
| UWLV6H  |           | 79.22      | 39.41                | 1.20  | 79.63      | 38.83                | 1.16  | IN         |
| YE8CRD  |           | 21.07      | -18.74               | -0.57 | 21.16      | -19.64               | -0.59 | MT         |
| ZAH8GH  |           | 5.40       | -34.41               | -1.05 | 5.32       | -35.49               | -1.06 | IN         |

**Summary Statistics**

Grand Means

39.811 Percent

40.803 Percent

Std Dev Btwn Labs

32.876 Percent

33.350 Percent

Statistics based on 15 of 15 reporting participants

Sample B17: LDPE &amp; Sample B18: LDPE

**Instrument Code List as Reported by the Labs**

(IM) - Instru-Met Instruments

(IN) - Instron

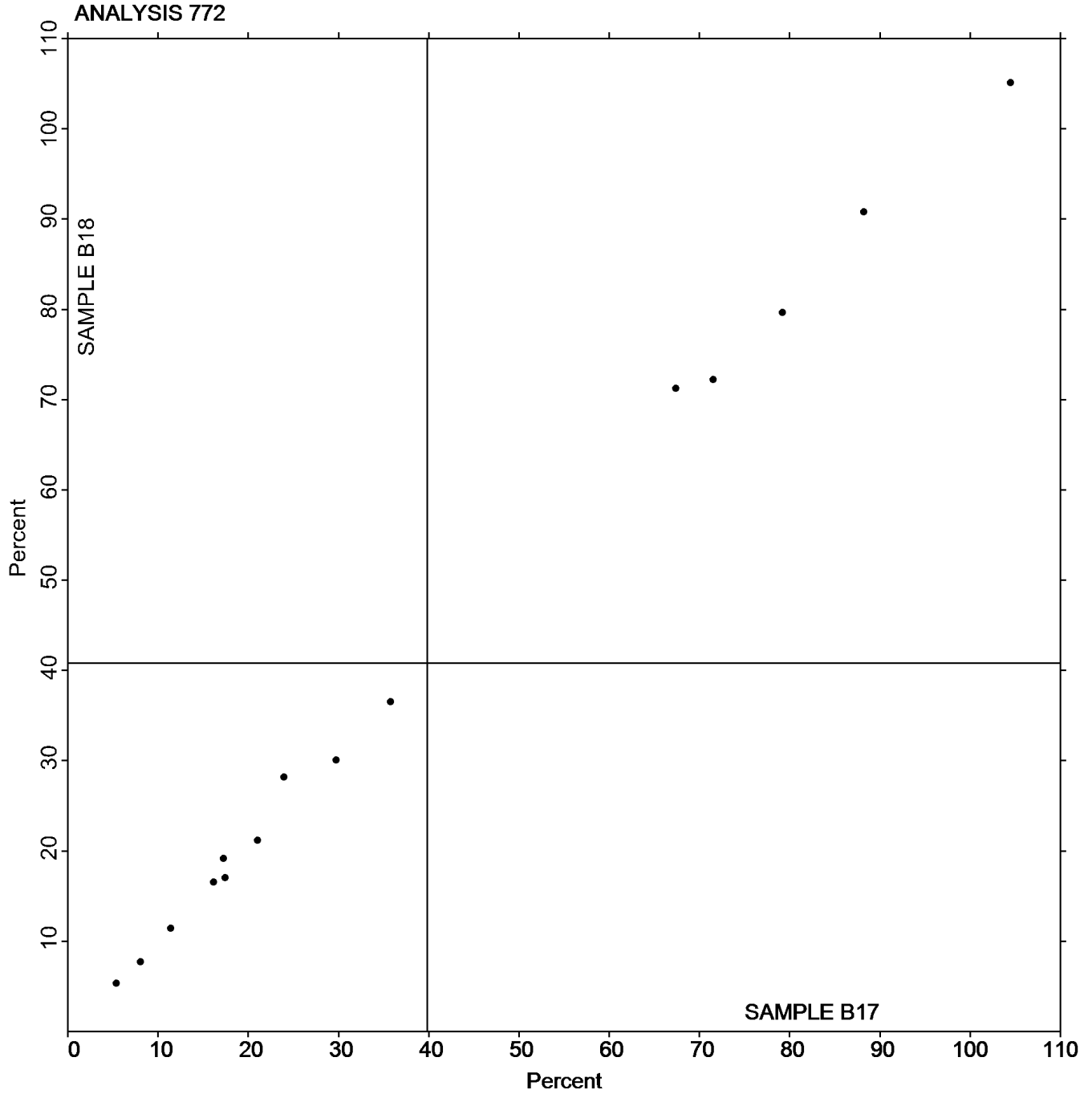
(LI) - Lloyd Instruments

(MT) - MTS/Sintech

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 772  
Percent Elongation at Yield, Films

Grand Mean Sample B17: 39.811 Percent    Grand Mean Sample B18: 40.803 Percent



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

**Plastics Interlaboratory Testing Program**  
**Analysis 773**  
**Percent Elongation at Break, Film Samples**

| WebCode | Data Flag | Sample B17 |                      |       | Sample B18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 4F83M9  |           | 760.7      | -10.2                | -0.07 | 776.0      | 13.7                 | 0.10  | MT         |
| 92CEDE  |           | 912.7      | 141.8                | 1.01  | 910.9      | 148.6                | 1.08  | IN         |
| BFL8DH  |           | 672.8      | -98.1                | -0.70 | 666.6      | -95.7                | -0.70 | IN         |
| DZRU27  |           | 768.1      | -2.8                 | -0.02 | 770.6      | 8.3                  | 0.06  | LI         |
| EDVLHF  | *         | 816.0      | 45.1                 | 0.32  | 680.4      | -81.9                | -0.60 | MT         |
| EPLGCP  |           | 664.7      | -106.2               | -0.75 | 661.0      | -101.3               | -0.74 | XX         |
| GB62VN  |           | 1,048.9    | 278.0                | 1.97  | 1,019.7    | 257.4                | 1.88  | SH         |
| GFLGDW  |           | 818.2      | 47.3                 | 0.34  | 811.5      | 49.2                 | 0.36  | IN         |
| H4MMKR  |           | 555.0      | -215.9               | -1.53 | 582.0      | -180.3               | -1.32 | IN         |
| JJDAF   |           | 1,027.3    | 256.4                | 1.82  | 967.4      | 205.1                | 1.50  | IN         |
| LAZZ2R  |           | 983.1      | 212.2                | 1.50  | 973.1      | 210.8                | 1.54  | IN         |
| MMWATM  |           | 611.9      | -159.0               | -1.13 | 629.0      | -133.3               | -0.97 | TH         |
| N6NCQV  |           | 649.2      | -121.6               | -0.86 | 654.9      | -107.4               | -0.78 | IN         |
| PG4PB7  |           | 661.3      | -109.6               | -0.78 | 647.7      | -114.7               | -0.84 | IN         |
| Q6MXQP  |           | 766.5      | -4.4                 | -0.03 | 763.5      | 1.2                  | 0.01  | IN         |
| RMHXB6  |           | 650.7      | -120.1               | -0.85 | 648.5      | -113.8               | -0.83 | IN         |
| TM4W9H  |           | 675.6      | -95.3                | -0.68 | 658.8      | -103.5               | -0.76 | MT         |
| WD69R4  |           | 884.1      | 113.2                | 0.80  | 968.0      | 205.7                | 1.50  | XX         |
| XRV9PM  |           | 809.5      | 38.6                 | 0.27  | 797.9      | 35.6                 | 0.26  | IM         |
| XXN8JY  |           | 681.1      | -89.8                | -0.64 | 659.0      | -103.4               | -0.75 | IN         |

| Summary Statistics                                  |        |         |         |
|---|--------|---------|---------|
| Grand Means   | 770.88 | Percent | 762.32  |
|   |        |         | Percent |
| Std Dev Btwn Labs                                   | 141.06 | Percent | 136.98  |
|   |        |         | Percent |
| Statistics based on 20 of 20 reporting participants |        |         |         |

Sample B17: LDPE & Sample B18: LDPE

**Plastics Interlaboratory Testing Program**  
**Analysis 773**  
**Percent Elongation at Break, Film Samples**

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**Instrument Code List as Reported by the Labs**

(IM) - Instru-Met Instruments

(IN) - Instron

(LI) - Lloyd Instruments

(MT) - MTS/Sintech

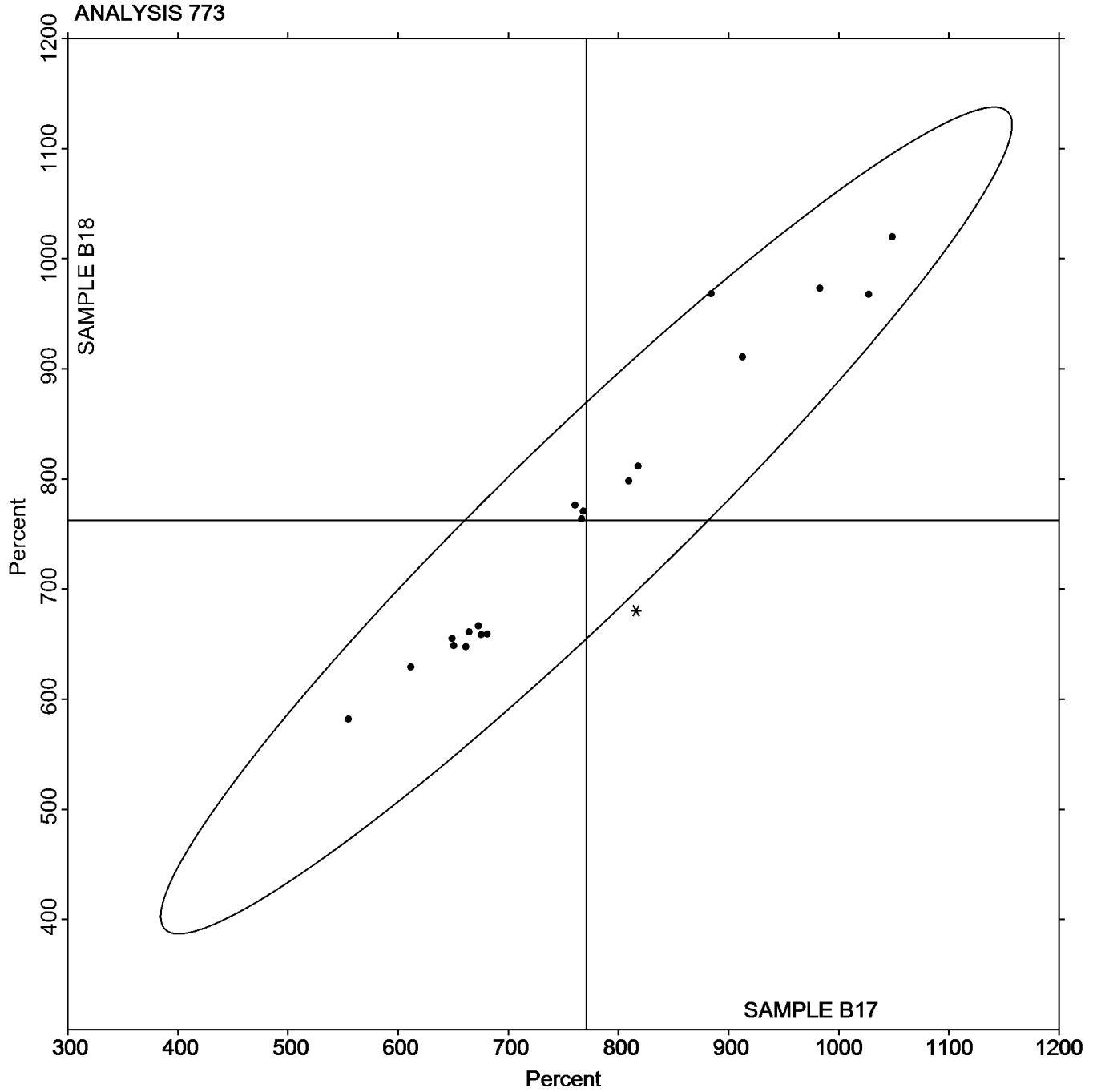
(SH) - Shimadzu

(TH) - Thwing Albert

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 773  
Percent Elongation at Break, Film Samples

Grand Mean Sample B17: 770.88 Percent    Grand Mean Sample B18: 762.32 Percent



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot



**Plastics Interlaboratory Testing Program**  
**Analysis 774**  
**Thickness of Film Tensile Samples - mils**

| WebCode | Data Flag | Sample B17 |                      |       | Sample B18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 24YP6W  |           | 4.0530     | -0.0038              | -0.06 | 3.8610     | -0.0922              | -1.12 | XX         |
| 32KKTR  |           | 4.0310     | -0.0258              | -0.42 | 4.0470     | 0.0938               | 1.14  | XX         |
| 6FTCE7  |           | 4.0200     | -0.0368              | -0.59 | 3.8700     | -0.0832              | -1.01 | XX         |
| 74W72E  |           | 4.0985     | 0.0417               | 0.67  | 3.9528     | -0.0003              | 0.00  | XX         |
| 8J2GZU  |           | 3.9646     | -0.0922              | -1.49 | 3.8308     | -0.1224              | -1.49 | XX         |
| 9JD6RW  |           | 4.0850     | 0.0282               | 0.45  | 3.9600     | 0.0068               | 0.08  | XX         |
| BAZNCP  |           | 4.0300     | -0.0268              | -0.43 | 3.9400     | -0.0132              | -0.16 | XX         |
| ERYHTK  |           | 4.0840     | 0.0272               | 0.44  | 3.9440     | -0.0092              | -0.11 | XX         |
| ETGYCY  |           | 4.0850     | 0.0282               | 0.45  | 4.1000     | 0.1468               | 1.78  | XX         |
| F7NNR4  |           | 4.0709     | 0.0140               | 0.23  | 3.9173     | -0.0358              | -0.44 | XX         |
| FCH9JQ  |           | 3.9449     | -0.1120              | -1.81 | 3.8740     | -0.0791              | -0.96 | XX         |
| GQ9C3R  |           | 4.0360     | -0.0208              | -0.34 | 4.0270     | 0.0738               | 0.90  | XX         |
| JXUZ2Q  |           | 4.1500     | 0.0932               | 1.50  | 4.0300     | 0.0768               | 0.93  | XX         |
| K62L7A  |           | 3.9870     | -0.0698              | -1.13 | 3.8200     | -0.1332              | -1.62 | XX         |
| K7GLTG  |           | 4.1700     | 0.1132               | 1.82  | 4.1400     | 0.1868               | 2.27  | XX         |
| LR6YA3  |           | 4.0300     | -0.0268              | -0.43 | 3.9600     | 0.0068               | 0.08  | XX         |
| MAZMJX  |           | 3.9926     | -0.0642              | -1.04 | 3.9205     | -0.0326              | -0.40 | XX         |
| MGGVJC  |           | 4.0850     | 0.0282               | 0.45  | 3.9800     | 0.0268               | 0.33  | XX         |
| P2GQCQ  |           | 4.0079     | -0.0489              | -0.79 | 3.9804     | 0.0272               | 0.33  | XX         |
| T7U2NZ  |           | 3.9880     | -0.0688              | -1.11 | 4.0080     | 0.0548               | 0.67  | XX         |
| TDNQRH  |           | 4.1181     | 0.0613               | 0.99  | 3.9016     | -0.0516              | -0.63 | XX         |
| TLLWRN  |           | 4.1457     | 0.0889               | 1.43  | 3.9883     | 0.0351               | 0.43  | XX         |
| X7X2UG  |           | 4.1300     | 0.0732               | 1.18  | 3.8700     | -0.0832              | -1.01 | XX         |

| Summary Statistics                                  |              |
|---|--------------|
| Grand Means   |              |
| 4.05684 mils  | 3.95316 mils |
| Std Dev Btwn Labs                                   |              |
| 0.06202 mils  | 0.08229 mils |
| Statistics based on 23 of 23 reporting participants |              |

Sample B17: LDPE &amp; Sample B18: LDPE

**Plastics Interlaboratory Testing Program**  
**Analysis 774**  
**Thickness of Film Tensile Samples - mils**

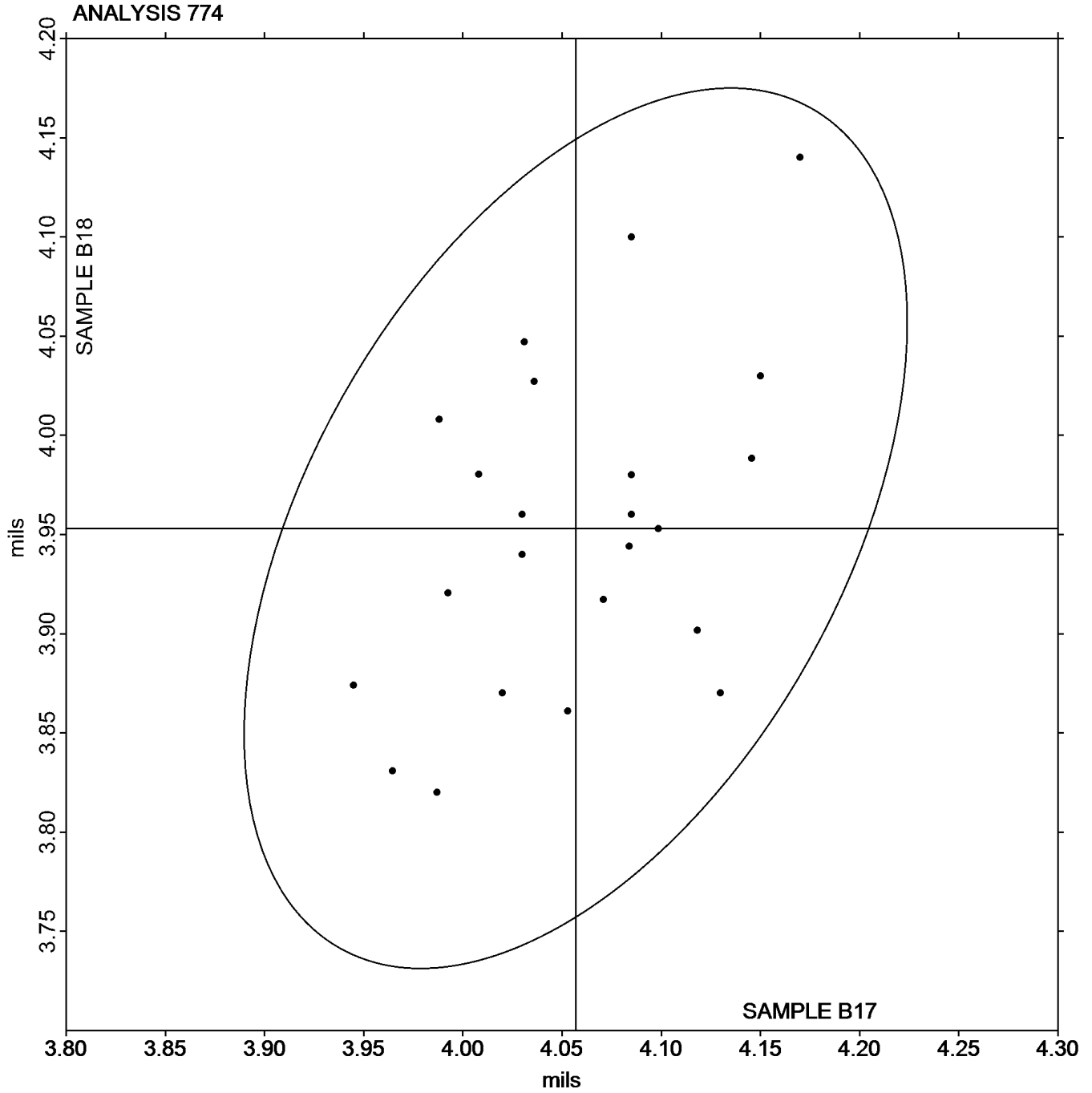
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**Instrument Code List as Reported by the Labs**

(XX) - Instrument Codes not used by CTS at this time

Plastics Interlaboratory Testing Program  
Analysis 774  
Thickness of Film Tensile Samples - mils

Grand Mean Sample B17: 4.0568 mils    Grand Mean Sample B18: 3.9532 mils



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

## Analysis 775

## Secant Modulus at 1% Strain - psi

| WebCode | Data Flag | Sample B17 |                      |       | Sample B18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2MEJWT  |           | 34,445     | 4,226                | 1.23  | 33,655     | 3,834                | 1.15  | IN         |
| 2P8PZK  |           | 34,332     | 4,114                | 1.20  | 32,124     | 2,303                | 0.69  | LI         |
| 38XTPD  |           | 33,462     | 3,243                | 0.95  | 33,839     | 4,019                | 1.20  | IN         |
| 3KZFKW  |           | 26,651     | -3,568               | -1.04 | 25,524     | -4,296               | -1.29 | IN         |
| 7Z2WYU  |           | 33,633     | 3,414                | 1.00  | 32,160     | 2,339                | 0.70  | IN         |
| 8QTM7V  |           | 28,103     | -2,116               | -0.62 | 27,584     | -2,236               | -0.67 | IN         |
| 8ZLU8H  |           | 29,268     | -950                 | -0.28 | 28,773     | -1,048               | -0.31 | IN         |
| DFJ8DP  |           | 23,235     | -6,983               | -2.04 | 22,452     | -7,368               | -2.21 | IN         |
| DZDJF4  |           | 33,366     | 3,148                | 0.92  | 33,791     | 3,971                | 1.19  | XX         |
| JNB7KM  |           | 32,364     | 2,145                | 0.63  | 32,133     | 2,313                | 0.69  | XX         |
| LJ4PRQ  |           | 26,976     | -3,242               | -0.95 | 29,006     | -814                 | -0.24 | IM         |
| NZMPUU  |           | 29,275     | -943                 | -0.28 | 29,804     | -16                  | 0.00  | MT         |
| PYWPRN  |           | 33,108     | 2,890                | 0.84  | 32,860     | 3,040                | 0.91  | TH         |
| RXNLGB  |           | 26,081     | -4,137               | -1.21 | 26,507     | -3,313               | -0.99 | UC         |
| Y4C2D3  |           | 29,190     | -1,028               | -0.30 | 27,660     | -2,160               | -0.65 | IN         |
| Y6K2WG  |           | 30,006     | -213                 | -0.06 | 29,254     | -566                 | -0.17 | IN         |

## Summary Statistics

Grand Means

30,218.4 psi

29,820.4 psi

Std Dev Btwn Labs

3,428.5 psi

3,341.3 psi

Statistics based on 16 of 16 reporting participants

Sample B17: LDPE &amp; Sample B18: LDPE

## Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

(LI) - Lloyd Instruments

(MT) - MTS/Sintech

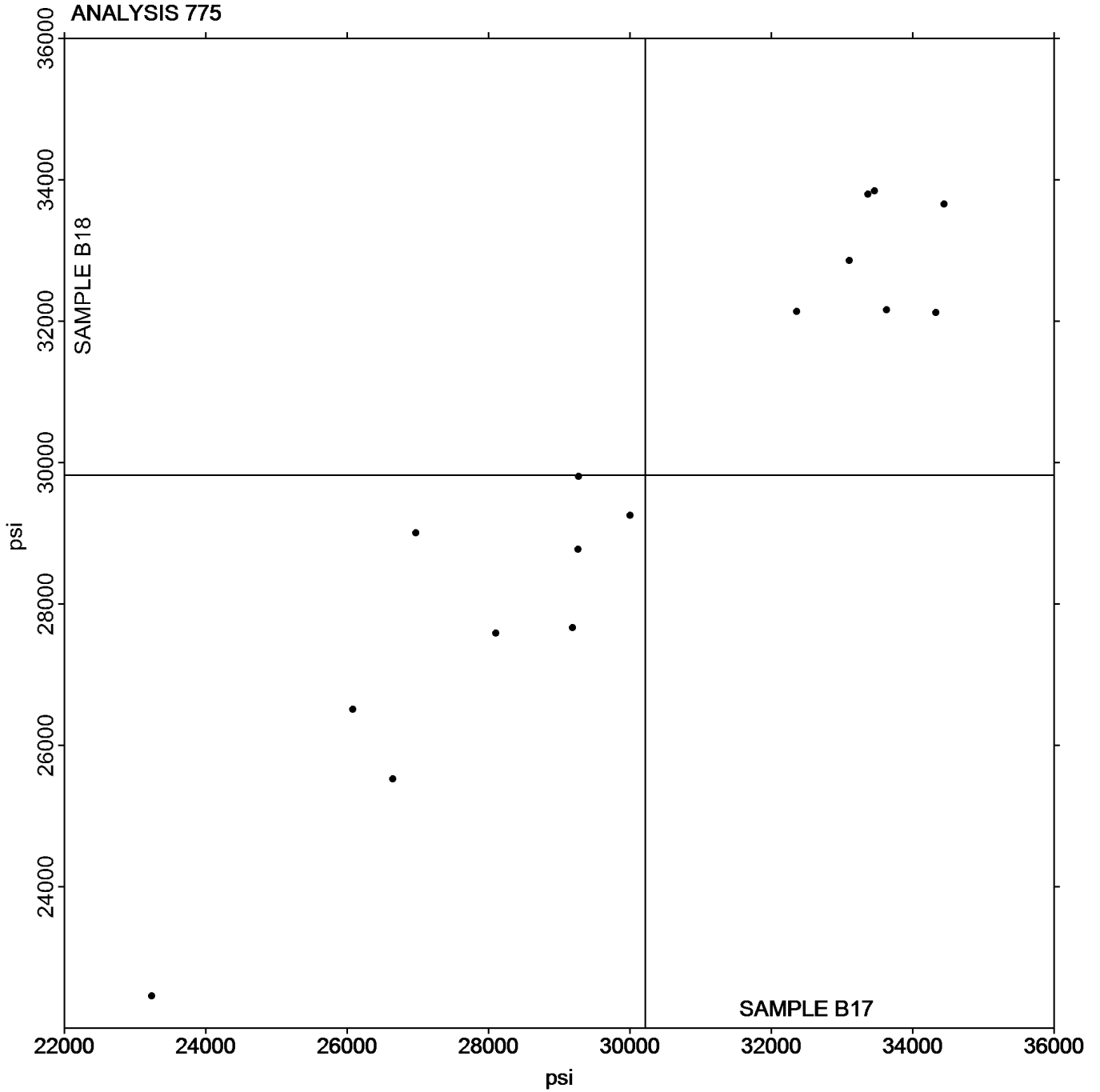
(TH) - Thwing Albert

(UC) - United

(XX) - Instrument manufacturer not specified by lab

Analysis 775  
Secant Modulus at 1% Strain - psi

Grand Mean Sample B17: 30,218.45 psi    Grand Mean Sample B18: 29,820.42 psi



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

## Analysis 776

## Secant Modulus at 2% Strain - psi

| WebCode | Data Flag | Sample B17 |                      |       | Sample B18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 27MQ4E  |           | 27,657     | 1,776                | 0.84  | 28,016     | 2,451                | 1.22  | IN         |
| 2ZP9DP  |           | 25,885     | 4                    | 0.00  | 25,548     | -17                  | -0.01 | IN         |
| 648368  |           | 23,017     | -2,864               | -1.36 | 24,644     | -922                 | -0.46 | IM         |
| 8E4FZN  |           | 27,678     | 1,796                | 0.85  | 27,560     | 1,994                | 0.99  | XX         |
| CZKYTP  |           | 22,282     | -3,599               | -1.71 | 21,332     | -4,233               | -2.10 | IN         |
| EAPDLM  |           | 25,110     | -771                 | -0.37 | 24,070     | -1,495               | -0.74 | IN         |
| EMXC4Z  |           | 27,572     | 1,691                | 0.80  | 27,311     | 1,746                | 0.87  | TH         |
| GGDAA6  |           | 27,067     | 1,185                | 0.56  | 27,409     | 1,844                | 0.92  | XX         |
| MZNXWG  |           | 27,897     | 2,016                | 0.96  | 26,894     | 1,329                | 0.66  | IN         |
| MZQ67U  |           | 26,525     | 643                  | 0.31  | 25,810     | 244                  | 0.12  | IN         |
| QAPBTV  |           | 29,085     | 3,204                | 1.52  | 27,308     | 1,743                | 0.87  | LI         |
| UELLGA  |           | 23,373     | -2,509               | -1.19 | 23,068     | -2,498               | -1.24 | UC         |
| VLJ8VB  |           | 23,900     | -1,981               | -0.94 | 23,538     | -2,028               | -1.01 | XX         |
| WE4F9N  |           | 25,292     | -590                 | -0.28 | 25,407     | -158                 | -0.08 | MT         |

## Summary Statistics

Grand Means

25,881.5 psi

25,565.4 psi

Std Dev Btwn Labs

2,106.8 psi

2,012.9 psi

Statistics based on 14 of 14 reporting participants

Sample B17: LDPE &amp; Sample B18: LDPE

## Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

(LI) - Lloyd Instruments

(MT) - MTS/Sintech

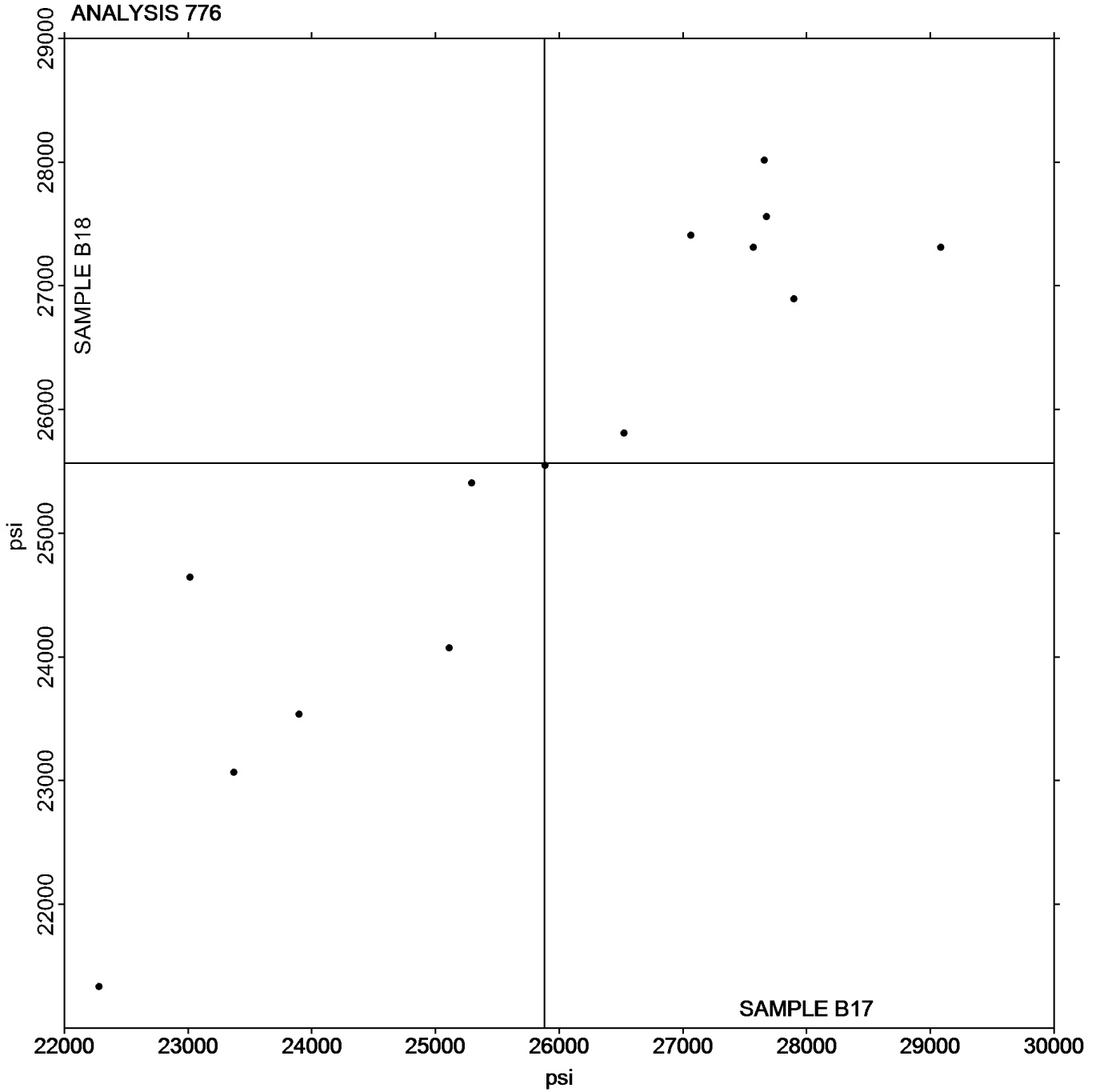
(TH) - Thwing Albert

(UC) - United

(XX) - Instrument manufacturer not specified by lab

Analysis 776  
Secant Modulus at 2% Strain - psi

Grand Mean Sample B17: 25,881.46 psi    Grand Mean Sample B18: 25,565.37 psi



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

**Plastics Interlaboratory Testing Program  
Analysis 780  
Coefficient of Static Friction**

| WebCode | Data Flag | Sample P17 |                      |       | Sample P18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 38HWH9  |           | 0.1730     | -0.0089              | -0.22 | 0.1780     | 0.0081               | 0.22  | KA         |
| 3BJXJP  |           | 0.1578     | -0.0241              | -0.59 | 0.1450     | -0.0249              | -0.69 | TN         |
| 6LTDDR  |           | 0.1546     | -0.0273              | -0.67 | 0.1542     | -0.0157              | -0.43 | TN         |
| 8BCRQY  |           | 0.1658     | -0.0161              | -0.40 | 0.1570     | -0.0129              | -0.36 | TM         |
| 8Z3L3W  |           | 0.1720     | -0.0099              | -0.24 | 0.1640     | -0.0059              | -0.16 | TL         |
| 9WNDZQ  |           | 0.1630     | -0.0189              | -0.47 | 0.1522     | -0.0177              | -0.49 | MT         |
| BAXZWH  |           | 0.1918     | 0.0099               | 0.24  | 0.1628     | -0.0071              | -0.20 | TN         |
| BRJ882  |           | 0.1605     | -0.0214              | -0.53 | 0.1578     | -0.0121              | -0.33 | IG         |
| CP8RVK  | *         | 0.2614     | 0.0795               | 1.96  | 0.1920     | 0.0221               | 0.61  | TH         |
| DKKBLZ  |           | 0.2056     | 0.0237               | 0.58  | 0.1896     | 0.0197               | 0.54  | TH         |
| FB6RY2  |           | 0.2448     | 0.0629               | 1.55  | 0.2176     | 0.0477               | 1.32  | IG         |
| FZQMDV  | *         | 0.0786     | -0.1033              | -2.54 | 0.0668     | -0.1031              | -2.85 | SA         |
| GPRRP3  |           | 0.1804     | -0.0015              | -0.04 | 0.1846     | 0.0147               | 0.41  | MI         |
| GQMCML  |           | 0.2158     | 0.0339               | 0.84  | 0.1804     | 0.0105               | 0.29  | IG         |
| HEGU92  |           | 0.1876     | 0.0057               | 0.14  | 0.1892     | 0.0193               | 0.53  | TH         |
| J2R8HU  |           | 0.1100     | -0.0719              | -1.77 | 0.1000     | -0.0699              | -1.93 | IG         |
| KU93YW  |           | 0.1784     | -0.0035              | -0.09 | 0.1876     | 0.0177               | 0.49  | IS         |
| L9TL2T  |           | 0.1890     | 0.0071               | 0.18  | 0.1820     | 0.0121               | 0.33  | TH         |
| P49U9Z  |           | 0.2276     | 0.0457               | 1.13  | 0.2276     | 0.0577               | 1.59  | XX         |
| PA9BDX  |           | 0.2114     | 0.0295               | 0.73  | 0.2064     | 0.0365               | 1.01  | MI         |
| PK3RYC  |           | 0.2216     | 0.0397               | 0.98  | 0.2006     | 0.0307               | 0.85  | TM         |
| PWXTHX  |           | 0.1888     | 0.0069               | 0.17  | 0.1932     | 0.0233               | 0.64  | IG         |
| VB4G4K  |           | 0.1314     | -0.0505              | -1.24 | 0.1194     | -0.0505              | -1.39 | TO         |
| ZDLW93  |           | 0.1942     | 0.0123               | 0.30  | 0.1696     | -0.0003              | -0.01 | IS         |

| Summary Statistics                                  |         |     |         |
|---|---------|-----|---------|
| Grand Means   | 0.18188 | COF | 0.16990 |
|   |         |     | COF     |
| Std Dev Btwn Labs                                   | 0.04059 | COF | 0.03622 |
|   |         |     | COF     |
| Statistics based on 24 of 24 reporting participants |         |     |         |

Sample P17: LDPE & Sample P18: LDPE



**Plastics Interlaboratory Testing Program**  
**Analysis 780**  
**Coefficient of Static Friction**

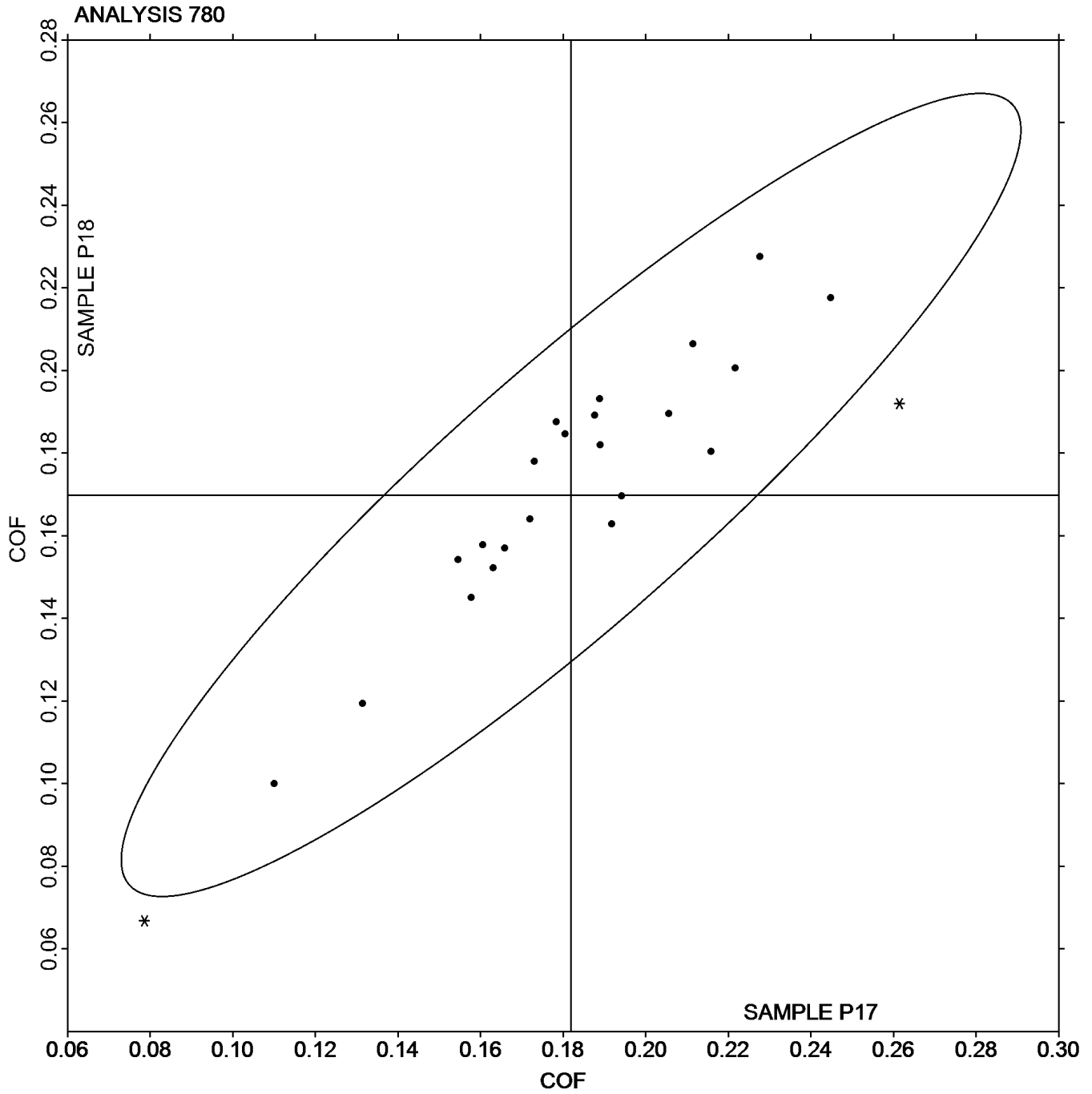
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**Instrument Code List as Reported by the Labs**

|   |   |
|---|---|
| (IG) - Instron  | (IS) - Instron 5000 Series                        |
| (KA) - Kayeness Inc.                                  | (MI) - MTS Insight                                |
| (MT) - MTS Q-Test                                     | (SA) - Shimadzu Autograph                         |
| (TH) - Thwing Albert Friction/Peel Tester Model 225-1 | (TL) - TMI #32-90                                 |
| (TM) - TMI Slip and Friction Tester                   | (TN) - TMI #32-06                                 |
| (TO) - Tinius Olsen                                   | (XX) - Instrument make/model not specified by lab |

Analysis 780  
Coefficient of Static Friction

Grand Mean Sample P17: 0.18188 COF    Grand Mean Sample P18: 0.16990 COF



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

**Plastics Interlaboratory Testing Program  
Analysis 781  
Coefficient of Kinetic Friction**

| WebCode | Data Flag | Sample P17 |                      |       | Sample P18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 26YJEW  |           | 0.1336     | -0.0091              | -0.29 | 0.1226     | -0.0117              | -0.32 | TN         |
| 3KVKVC  | *         | 0.0520     | -0.0907              | -2.83 | 0.0300     | -0.1043              | -2.84 | IG         |
| 4YYXA6  |           | 0.1418     | -0.0009              | -0.03 | 0.1396     | 0.0054               | 0.15  | TM         |
| 73AJXY  |           | 0.1600     | 0.0173               | 0.54  | 0.1500     | 0.0158               | 0.43  | TL         |
| 79T8AE  |           | 0.1186     | -0.0241              | -0.75 | 0.1074     | -0.0269              | -0.73 | TH         |
| 8AUMZ7  |           | 0.1460     | 0.0033               | 0.10  | 0.1468     | 0.0126               | 0.34  | IG         |
| 9ZD7F6  |           | 0.1730     | 0.0303               | 0.95  | 0.1780     | 0.0438               | 1.19  | KA         |
| 9ZWZY9  |           | 0.1270     | -0.0157              | -0.49 | 0.1190     | -0.0153              | -0.42 | TO         |
| AKQUYQ  |           | 0.1460     | 0.0033               | 0.10  | 0.1254     | -0.0089              | -0.24 | MT         |
| AW9N8D  |           | 0.0612     | -0.0815              | -2.55 | 0.0430     | -0.0913              | -2.49 | SA         |
| BFLDGE  |           | 0.1648     | 0.0221               | 0.69  | 0.1510     | 0.0168               | 0.46  | MI         |
| CRAAY4  |           | 0.1408     | -0.0019              | -0.06 | 0.1298     | -0.0045              | -0.12 | TH         |
| DZHQW7  |           | 0.1392     | -0.0035              | -0.11 | 0.1538     | 0.0196               | 0.53  | IS         |
| FBXQRD  |           | 0.1216     | -0.0211              | -0.66 | 0.1170     | -0.0173              | -0.47 | TN         |
| K2RRV8  |           | 0.1326     | -0.0101              | -0.32 | 0.1206     | -0.0137              | -0.37 | TN         |
| NFYA9G  | *         | 0.1666     | 0.0239               | 0.75  | 0.1324     | -0.0019              | -0.05 | IS         |
| PKFUCR  |           | 0.1340     | -0.0087              | -0.27 | 0.1268     | -0.0075              | -0.20 | TH         |
| R83TTQ  |           | 0.1762     | 0.0335               | 1.05  | 0.1762     | 0.0420               | 1.14  | IG         |
| RQHJYZ  |           | 0.1830     | 0.0403               | 1.26  | 0.1872     | 0.0530               | 1.44  | XX         |
| T39A4U  |           | 0.1528     | 0.0101               | 0.31  | 0.1512     | 0.0170               | 0.46  | IG         |
| UH6VG4  |           | 0.1576     | 0.0149               | 0.46  | 0.1366     | 0.0024               | 0.06  | TH         |
| VCYW29  |           | 0.1594     | 0.0167               | 0.52  | 0.1456     | 0.0114               | 0.31  | IG         |
| VHKHC9  |           | 0.1774     | 0.0347               | 1.08  | 0.1700     | 0.0358               | 0.97  | TM         |
| YJHLHL  |           | 0.1604     | 0.0177               | 0.55  | 0.1620     | 0.0278               | 0.76  | MI         |

| Summary Statistics                                  |         |     |         |
|---|---------|-----|---------|
| Grand Means   | 0.14274 | COF | 0.13425 |
|   |         |     | COF     |
| Std Dev Btwn Labs                                   | 0.03202 | COF | 0.03669 |
|   |         |     | COF     |
| Statistics based on 24 of 24 reporting participants |         |     |         |

Sample P17: LDPE & Sample P18: LDPE

**Plastics Interlaboratory Testing Program**  
**Analysis 781**  
**Coefficient of Kinetic Friction**

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**Instrument Code List as Reported by the Labs**

(IG) - Instron

(KA) - Kayeness Inc.

(MT) - MTS Q-Test

(TH) - Thwing Albert Friction/Peel Tester Model 225-1

(TM) - TMI Slip and Friction Tester

(TO) - Tinius Olsen

(IS) - Instron 5000 Series

(MI) - MTS Insight

(SA) - Shimadzu Autograph

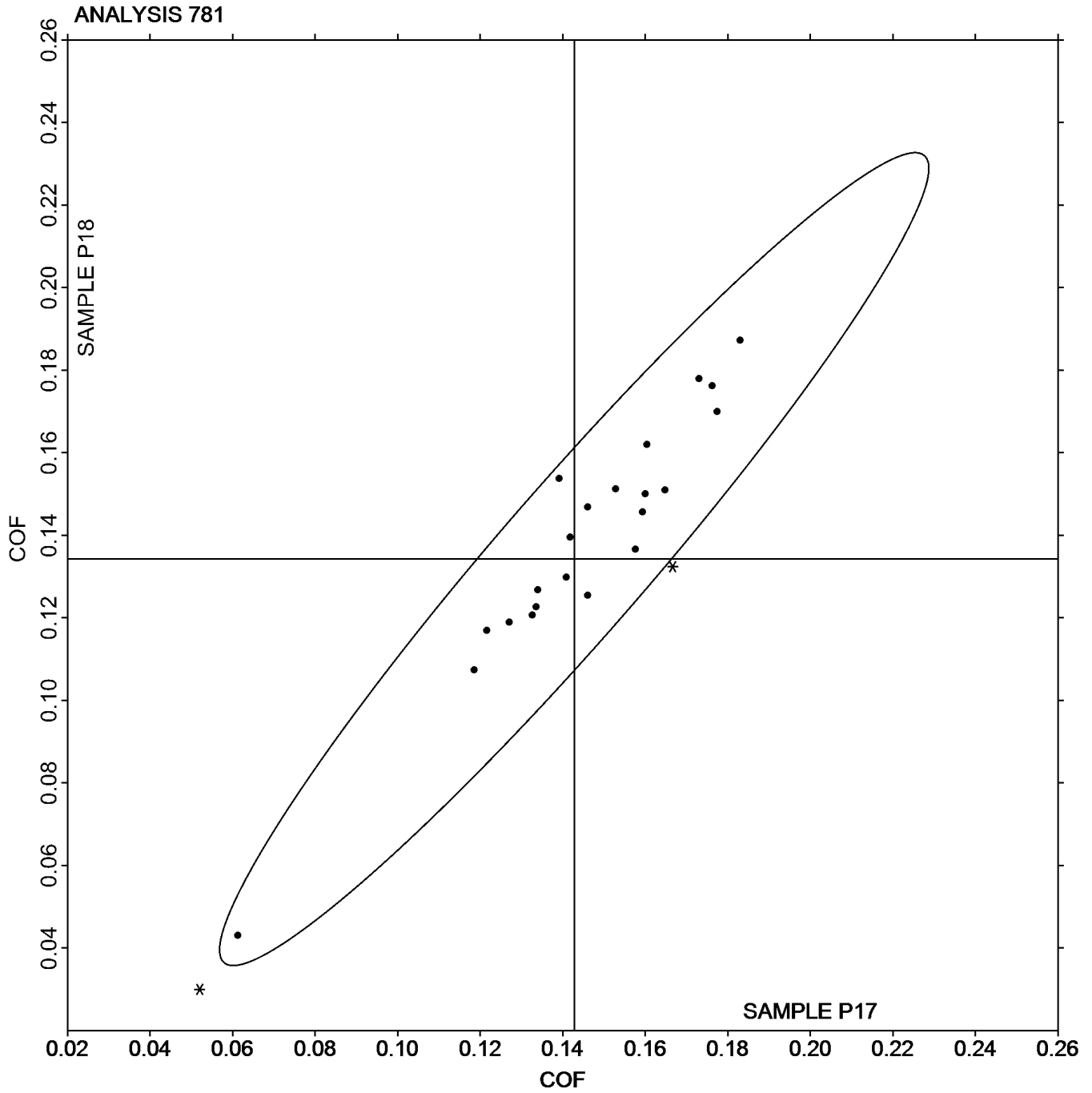
(TL) - TMI #32-90

(TN) - TMI #32-06

(XX) - Instrument make/model not specified by lab

Analysis 781  
Coefficient of Kinetic Friction

Grand Mean Sample P17: 0.14274 COF    Grand Mean Sample P18: 0.13425 COF



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

**Plastics Interlaboratory Testing Program**  
**Analysis 782**  
**Tear Resistance of Films**

| WebCode | Data Flag | Sample Q17 |                      |       | Sample Q18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 6KAA77  |           | 641.3      | -137.8               | -1.73 | 616.3      | -159.4               | -1.76 | TE         |
| 79XMRH  |           | 758.4      | -20.7                | -0.26 | 621.5      | -154.2               | -1.70 | XX         |
| 7CQDTJ  |           | 846.8      | 67.7                 | 0.85  | 853.3      | 77.7                 | 0.86  | LO         |
| E3WHA2  |           | 783.8      | 4.7                  | 0.06  | 770.3      | -5.4                 | -0.06 | TE         |
| FAMP7F  |           | 836.9      | 57.8                 | 0.72  | 863.4      | 87.7                 | 0.97  | TM         |
| KDUMT4  |           | 803.1      | 24.0                 | 0.30  | 872.8      | 97.1                 | 1.07  | SZ         |
| N3B4GJ  |           | 899.9      | 120.8                | 1.51  | 894.4      | 118.7                | 1.31  | TM         |
| PKKPWZ  |           | 686.2      | -92.9                | -1.16 | 701.1      | -74.5                | -0.82 | TA         |
| RJVWWZ  |           | 729.8      | -49.3                | -0.62 | 761.6      | -14.1                | -0.15 | TE         |
| UCD36E  |           | 723.8      | -55.3                | -0.69 | 779.5      | 3.9                  | 0.04  | TE         |
| VAU48B  |           | 868.9      | 89.8                 | 1.13  | 798.1      | 22.4                 | 0.25  | TN         |
| WQQK9N  |           | 850.8      | 71.7                 | 0.90  | 830.7      | 55.0                 | 0.61  | TE         |
| WTLQX3  |           | 698.8      | -80.4                | -1.01 | 720.4      | -55.2                | -0.61 | XX         |

**Summary Statistics**

Grand Means

779.11 grams-force

775.65 grams-force

Stnd Dev Btwn Labs

79.74 grams-force

90.74 grams-force

Statistics based on 13 of 13 reporting participants

Sample Q17: LDPE &amp; Sample Q18: LDPE

**Instrument Code List as Reported by the Labs**

(LO) - Lorentzen &amp; Wettre Model II

(SZ) - Textest FX 3700

(TA) - Thwing-Albert

(TE) - Thwing-Albert Pro Tear

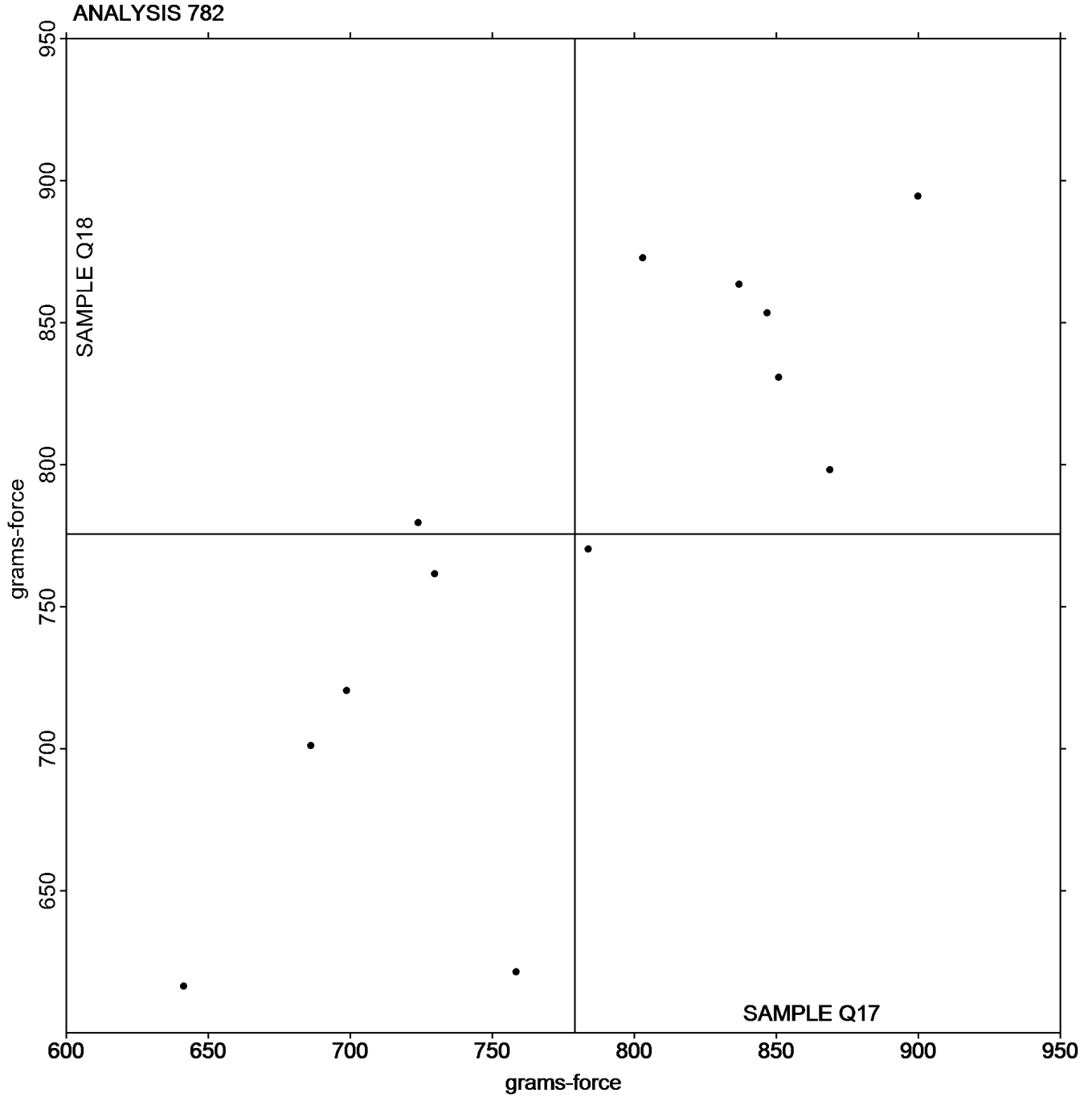
(TM) - TMI No. 83-1100

(TN) - TMI Tear Tester 83-10

(XX) - Instrument make/model not specified by lab

Analysis 782  
Tear Resistance of Films

Grand Mean Sample Q17: 779.11 grams-force    Grand Mean Sample Q18: 775.65 grams-force



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

## Plastics Interlaboratory Testing Program

Analysis 785  
Percent Haze of Film

| WebCode | Data Flag | Sample D17 |                      |       | Sample D18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 3Q8RQY  |           | 16.263     | 0.599                | 0.89  | 15.425     | 0.450                | 0.71  | BJ         |
| 4FW6L8  |           | 15.388     | -0.276               | -0.41 | 14.900     | -0.075               | -0.12 | BJ         |
| 4GXP6Z  |           | 16.574     | 0.911                | 1.35  | 15.846     | 0.872                | 1.38  | BT         |
| 7RMJ3Q  |           | 15.350     | -0.313               | -0.46 | 14.700     | -0.275               | -0.44 | BJ         |
| 7VX6F4  |           | 15.563     | -0.101               | -0.15 | 14.900     | -0.075               | -0.12 | BJ         |
| 87WB2W  |           | 15.563     | -0.101               | -0.15 | 15.025     | 0.050                | 0.08  | BH         |
| 89T3KL  |           | 15.225     | -0.438               | -0.65 | 14.938     | -0.037               | -0.06 | BJ         |
| A3K84H  |           | 15.516     | -0.147               | -0.22 | 14.721     | -0.253               | -0.40 | BJ         |
| A9VELZ  |           | 15.799     | 0.136                | 0.20  | 15.321     | 0.347                | 0.55  | XR         |
| AK62QR  |           | 15.138     | -0.526               | -0.78 | 14.200     | -0.775               | -1.23 | BJ         |
| EH8G9Z  |           | 15.675     | 0.012                | 0.02  | 15.075     | 0.100                | 0.16  | BJ         |
| GF2MR2  |           | 15.050     | -0.613               | -0.91 | 14.163     | -0.812               | -1.29 | BJ         |
| GQVKDR  |           | 15.688     | 0.024                | 0.04  | 15.138     | 0.163                | 0.26  | BJ         |
| M4ZCG7  |           | 17.125     | 1.462                | 2.17  | 15.938     | 0.963                | 1.53  | DA         |
| M8ANWG  |           | 15.638     | -0.026               | -0.04 | 14.775     | -0.200               | -0.32 | BJ         |
| NJNPVD  |           | 14.106     | -1.557               | -2.31 | 13.344     | -1.631               | -2.59 | HL         |
| T9UAPN  |           | 16.288     | 0.624                | 0.93  | 15.664     | 0.689                | 1.09  | XR         |
| TQ32YL  |           | 15.150     | -0.513               | -0.76 | 14.988     | 0.013                | 0.02  | BJ         |
| UEAFCA  |           | 17.050     | 1.387                | 2.06  | 15.950     | 0.975                | 1.55  | BJ         |
| UWMY7X  |           | 14.931     | -0.732               | -1.09 | 14.080     | -0.895               | -1.42 | XR         |
| WH8ZMH  |           | 16.488     | 0.824                | 1.22  | 15.863     | 0.888                | 1.41  | BJ         |
| WQW869  |           | 15.475     | -0.188               | -0.28 | 14.400     | -0.575               | -0.91 | XX         |
| XMYLU3  |           | 15.338     | -0.326               | -0.48 | 14.888     | -0.087               | -0.14 | BJ         |
| XRE9PL  |           | 15.850     | 0.187                | 0.28  | 15.100     | 0.125                | 0.20  | BJ         |
| ZUCF2F  |           | 15.350     | -0.313               | -0.46 | 15.025     | 0.050                | 0.08  | BJ         |



Analysis 785  
Percent Haze of Film

## Summary Statistics

Grand Means

15.6631 Percent

14.9746 Percent

Std Dev Btwn Labs

0.6738 Percent

0.6302 Percent

Statistics based on 25 of 25 reporting participants

Sample D17: LDPE &amp; Sample D18: LDPE

## Instrument Code List as Reported by the Labs

(BH) - BYK-Gardner/Pacific Scientific Model XL-211

(BJ) - BYK-Gardner Haze-Gard Plus

(BT) - BYK Gardner TCS Series

(DA) - Datacolor SF 600 Series

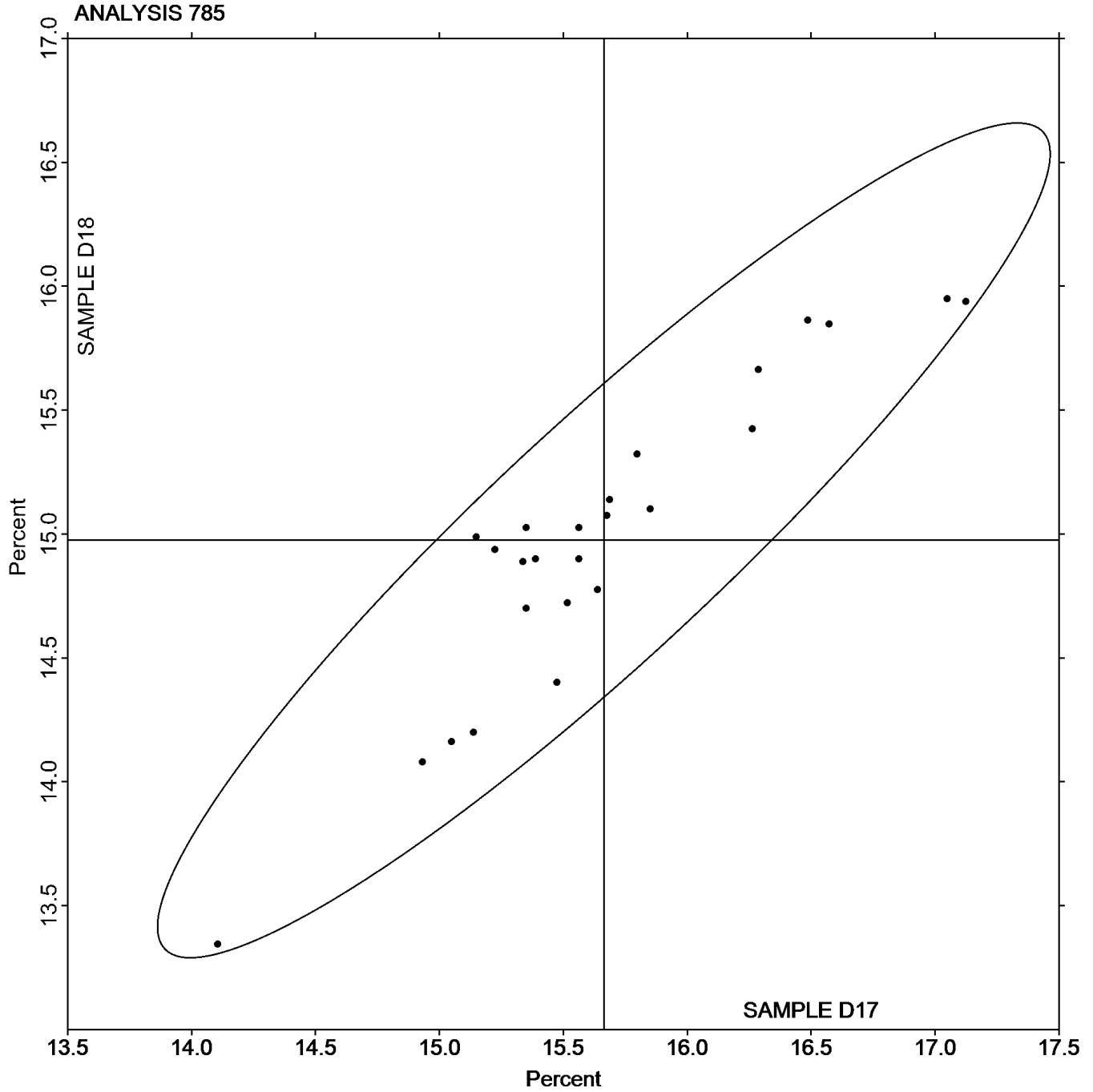
(HL) - Hunterlab Ultrascan XE

(XR) - X-Rite Spectrocolorimeter (any model)

(XX) - Instrument make/model not specified by lab

Analysis 785  
Percent Haze of Film

Grand Mean Sample D17: 15.663 Percent    Grand Mean Sample D18: 14.975 Percent



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

Analysis 786

Total Luminous transmittance of film

| WebCode | Data Flag | Sample D17 |                      |       | Sample D18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2PH7MU  |           | 90.36      | -1.81                | -1.51 | 90.55      | -1.68                | -1.42 | DA         |
| 2T4NC8  |           | 92.66      | 0.49                 | 0.41  | 92.61      | 0.38                 | 0.33  | BJ         |
| 4KUVDH  |           | 92.53      | 0.35                 | 0.30  | 92.51      | 0.28                 | 0.24  | BH         |
| 67B4GG  |           | 92.75      | 0.58                 | 0.48  | 92.78      | 0.55                 | 0.46  | BT         |
| 7M69YJ  |           | 91.56      | -0.61                | -0.51 | 91.68      | -0.55                | -0.47 | BJ         |
| 7Y8JP2  |           | 92.85      | 0.68                 | 0.57  | 92.68      | 0.45                 | 0.38  | BJ         |
| 9CFDLN  |           | 92.35      | 0.18                 | 0.15  | 92.65      | 0.42                 | 0.36  | BJ         |
| 9RB32V  |           | 94.31      | 2.14                 | 1.79  | 94.30      | 2.07                 | 1.75  | BJ         |
| 9RFNM3  |           | 89.11      | -3.06                | -2.55 | 89.11      | -3.12                | -2.63 | BJ         |
| A7RLR3  |           | 91.80      | -0.37                | -0.31 | 91.90      | -0.32                | -0.27 | XR         |
| BPUWUH  |           | 93.15      | 0.98                 | 0.82  | 93.25      | 1.02                 | 0.87  | BJ         |
| C232RQ  |           | 93.16      | 0.99                 | 0.83  | 92.93      | 0.70                 | 0.59  | BJ         |
| CEYE9A  |           | 91.53      | -0.64                | -0.54 | 91.55      | -0.68                | -0.58 | XR         |
| D9H3EP  |           | 90.48      | -1.69                | -1.41 | 90.47      | -1.76                | -1.48 | HL         |
| DAM9H7  |           | 91.96      | -0.21                | -0.17 | 92.08      | -0.15                | -0.13 | BJ         |
| FWDWZH  |           | 92.30      | 0.13                 | 0.11  | 92.39      | 0.16                 | 0.14  | BJ         |
| KKXLJH  |           | 92.68      | 0.50                 | 0.42  | 92.70      | 0.47                 | 0.40  | BJ         |
| TTTQBY  | *         | 92.55      | 0.38                 | 0.32  | 93.00      | 0.77                 | 0.65  | BJ         |
| U9BWGH  |           | 94.20      | 2.03                 | 1.69  | 94.18      | 1.95                 | 1.65  | BJ         |
| V2UJ8B  |           | 92.24      | 0.07                 | 0.06  | 92.39      | 0.16                 | 0.14  | BJ         |
| VBDDJF  |           | 93.06      | 0.89                 | 0.74  | 93.10      | 0.87                 | 0.74  | BJ         |
| X4R7YV  |           | 90.93      | -1.24                | -1.03 | 91.02      | -1.21                | -1.03 | XR         |
| YWBLBU  |           | 91.43      | -0.75                | -0.62 | 91.44      | -0.79                | -0.67 | BJ         |

| Summary Statistics                                  |        |         |        |
|---|--------|---------|--------|
| Grand Means   | 92.171 | Percent | 92.228 |
| Std Dev Btwn Labs                                   | 1.199  | Percent | 1.183  |
| Statistics based on 23 of 23 reporting participants |        |         |        |

Sample D17: LDPE & Sample D18: LDPE

**Instrument Code List as Reported by the Labs**

(BH) - BYK-Gardner/Pacific Scientific Model XL-211

(BJ) - BYK-Gardner Haze-Gard Plus

(BT) - BYK Gardner TCS Plus Spectrophotometer

(DA) - Datacolor SF 600 Series

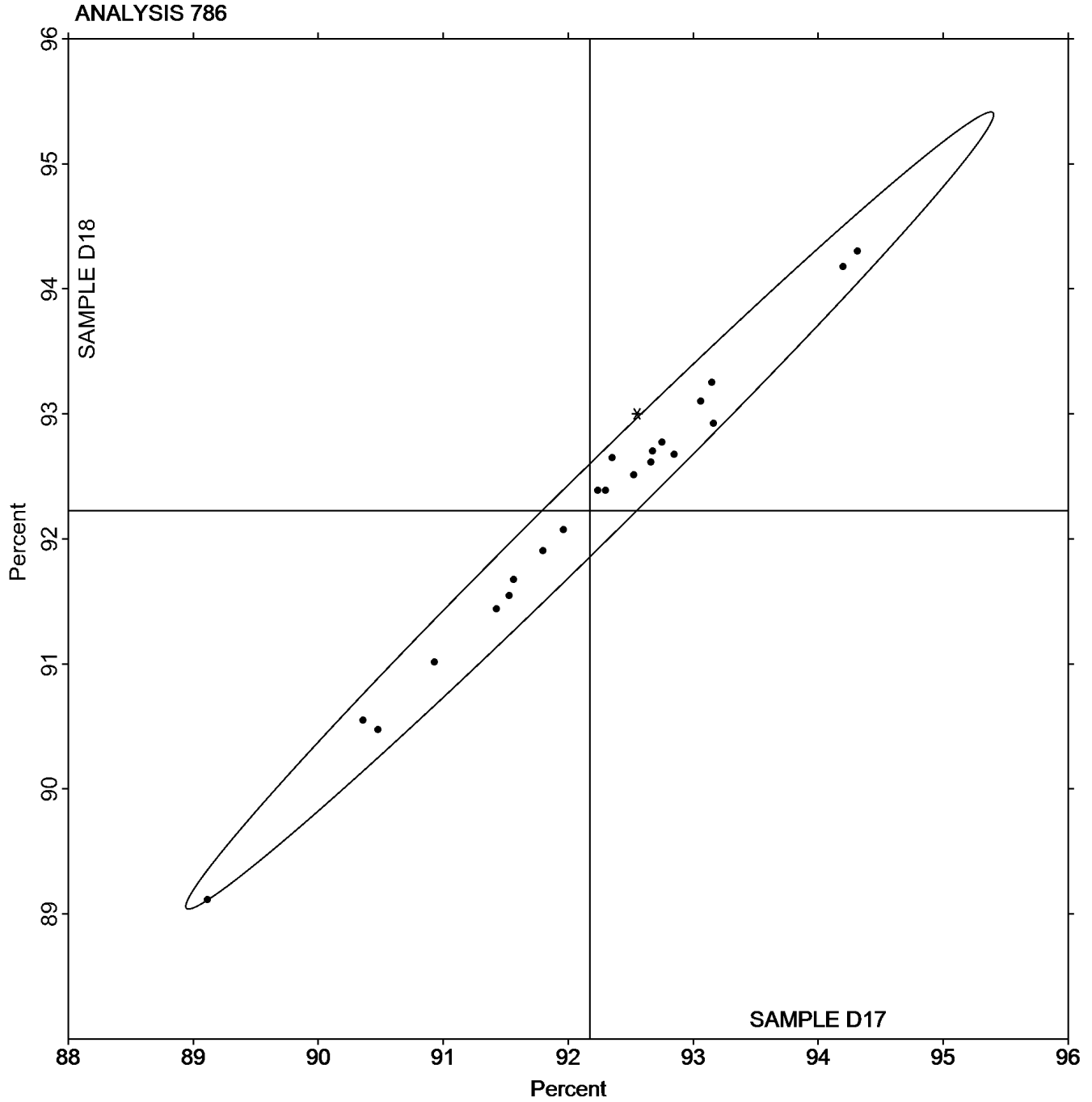
(HL) - Hunterlab Ultrascan XE

(XR) - X-Rite Spectrocolorimeter (any model)

Analysis 786

Total Luminous transmittance of film

Grand Mean Sample D17: 92.171 Percent Grand Mean Sample D18: 92.228 Percent



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot

**Plastics Interlaboratory Testing Program**  
**Analysis 755**  
**Moisture Content of Plastics**

| WebCode | Data Flag | Sample Y17 |                      |       | Sample Y18 |                      |       | Instr Code |
|---------|-----------|------------|----------------------|-------|------------|----------------------|-------|------------|
|         |           | Lab Mean   | Diff from Grand Mean | CPV   | Lab Mean   | Diff from Grand Mean | CPV   |            |
| 2CW8YG  |           | 0.21567    | 0.01878              | 0.43  | 0.19680    | 0.01110              | 0.27  | AZ         |
| 3GZBXT  | *         | 0.31300    | 0.11611              | 2.64  | 0.29900    | 0.11330              | 2.77  | SB         |
| 4M76RV  |           | 0.16987    | -0.02702             | -0.61 | 0.16363    | -0.02207             | -0.54 | XX         |
| 6VRMLK  |           | 0.20333    | 0.00645              | 0.15  | 0.20667    | 0.02096              | 0.51  | MU         |
| 8MAHEB  |           | 0.21600    | 0.01911              | 0.43  | 0.20700    | 0.02130              | 0.52  | AZ         |
| A8UN76  |           | 0.10587    | -0.09102             | -2.07 | 0.10380    | -0.08190             | -2.01 | MD         |
| A9W47E  |           | 0.20500    | 0.00811              | 0.18  | 0.19800    | 0.01230              | 0.30  | MB         |
| BMZPCL  |           | 0.20700    | 0.01011              | 0.23  | 0.17800    | -0.00770             | -0.19 | XX         |
| BQD8EK  | *         | 0.19920    | 0.00231              | 0.05  | 0.22777    | 0.04206              | 1.03  | MD         |
| EFTCVA  |           | 0.22900    | 0.03211              | 0.73  | 0.21400    | 0.02830              | 0.69  | MA         |
| FH8WZ3  |           | 0.19367    | -0.00322             | -0.07 | 0.17867    | -0.00704             | -0.17 | CS         |
| HUBZH2  |           | 0.15333    | -0.04355             | -0.99 | 0.15333    | -0.03237             | -0.79 | XX         |
| HWYTDT  |           | 0.19767    | 0.00078              | 0.02  | 0.18233    | -0.00337             | -0.08 | CS         |
| J99HQR  |           | 0.13477    | -0.06212             | -1.41 | 0.11000    | -0.07570             | -1.85 | MU         |
| JPMJ27  |           | 0.22500    | 0.02811              | 0.64  | 0.18200    | -0.00370             | -0.09 | SA         |
| KMCD36  |           | 0.18533    | -0.01155             | -0.26 | 0.20100    | 0.01530              | 0.37  | XX         |
| KQVF3G  |           | 0.10560    | -0.09129             | -2.08 | 0.09663    | -0.08907             | -2.18 | XX         |
| LLWEK2  |           | 0.27000    | 0.07311              | 1.66  | 0.24000    | 0.05430              | 1.33  | XX         |
| MH6HT7  |           | 0.12707    | -0.06982             | -1.59 | 0.12790    | -0.05780             | -1.42 | MU         |
| MWLE6G  |           | 0.21157    | 0.01468              | 0.33  | 0.19623    | 0.01053              | 0.26  | MT         |
| N22Y4Y  |           | 0.21743    | 0.02055              | 0.47  | 0.20903    | 0.02333              | 0.57  | XX         |
| NUG6KL  |           | 0.18300    | -0.01389             | -0.32 | 0.17800    | -0.00770             | -0.19 | MK         |
| QNZJLV  |           | 0.22533    | 0.02845              | 0.65  | 0.20733    | 0.02163              | 0.53  | SB         |
| WDQUL9  |           | 0.23600    | 0.03911              | 0.89  | 0.22400    | 0.03830              | 0.94  | SB         |
| WK8AEL  | X         | 0.37067    | 0.17378              | 3.95  | 0.36367    | 0.17796              | 4.36  | MK         |
| WUFX4D  |           | 0.19667    | -0.00022             | -0.01 | 0.18133    | -0.00437             | -0.11 | ML         |
| WX93KF  |           | 0.23453    | 0.03765              | 0.86  | 0.20330    | 0.01760              | 0.43  | AZ         |
| XC7LMT  |           | 0.20790    | 0.01101              | 0.25  | 0.18860    | 0.00290              | 0.07  | MR         |
| XDELTM  |           | 0.20034    | 0.00345              | 0.08  | 0.18325    | -0.00245             | -0.06 | MJ         |
| Y7RWBL  |           | 0.19923    | 0.00235              | 0.05  | 0.18190    | -0.00380             | -0.09 | MR         |
| YNEK39  |           | 0.19850    | 0.00161              | 0.04  | 0.19400    | 0.00830              | 0.20  | ML         |
| Z2NKMK  |           | 0.13667    | -0.06022             | -1.37 | 0.14333    | -0.04237             | -1.04 | XX         |

**Plastics Interlaboratory Testing Program**  
**Analysis 755**  
**Moisture Content of Plastics**

| Summary Statistics                                  |          |         |                  |
|---|----------|---------|------------------|
| Grand Means   | 0.196888 | Percent | 0.185705 Percent |
| Std Dev Btwn Labs                                   | 0.043993 | Percent | 0.040828 Percent |
| Statistics based on 31 of 32 reporting participants |          |         |                  |

Sample Y17: ABS & Sample Y18: ABS

**Comments on assigned Data Flags for Test #755**

WK8AEL (X) - Data for both samples are high.

**Instrument Code List as Reported by the Labs**

(AZ) - Arizona Instruments Moisture Analyzer

(CS) - Cosa Instruments

(MA) - Omnimark Mark 2

(MB) - Omnimark Mark 3

(MD) - Mettler Toledo DL37

(MJ) - Mitsubishi KF Analyzer Series

(MK) - Mitsubishi KF Analyzer CA 100

(ML) - Metrohm Coulometer

(MR) - Metrohm Coulometer 756 KF

(MT) - Mettler Toledo DL39

(MU) - Mettler Toledo

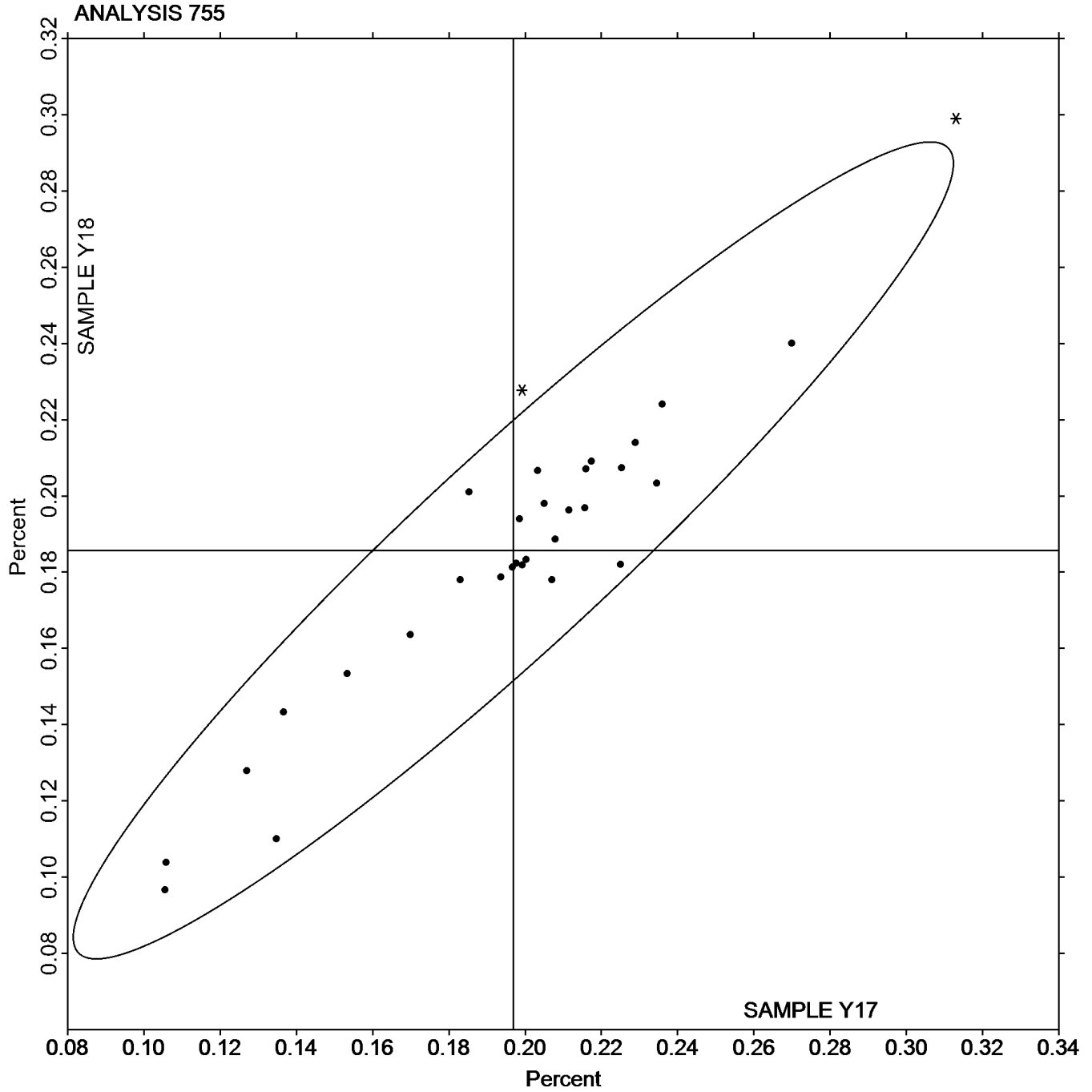
(SA) - Sartorius MA30

(SB) - Sartorius Mark 3

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 755  
Moisture Content of Plastics

Grand Mean Sample Y17: 0.19689 Percent Grand Mean Sample Y18: 0.18570 Percent



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot