

## Plastics Interlaboratory Testing Program

### Web Summary Report #95, 3rd Qtr 2015

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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.

For further information contact:

COLLABORATIVE TESTING SERVICES, INC.  
21331 Gentry Drive  
Sterling, VA 20166  
Phone: (571) 434-1925  
FAX: (571) 434-1937  
e-mail: [plastics@cts-interlab.com](mailto:plastics@cts-interlab.com)

Office Hours: 8:00 a.m. - 4:30 p.m. ET

## 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 #95

### Plastics Interlaboratory Testing Program

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#### Analysis 704 - Tensile Stress at Yield

Material: ABS	Sample F29	7,408.54	psi	1.47% COV
	Sample F30	7,409.75	psi	1.58% COV

#### Analysis 705 - Tensile Stress at Break

Material: ABS	Sample F29	5,275.58	psi	3.12% COV
	Sample F30	5,290.72	psi	3.14% COV

#### Analysis 706 - Percent Elongation at Yield

Material: ABS	Sample F29	2.9609	Percent	2.37% COV
	Sample F30	2.9593	Percent	2.53% COV

#### Analysis 708 - Modulus of Elasticity

Material: ABS	Sample F29	352.73	ksi	4.30% COV
	Sample F30	350.97	ksi	4.17% COV

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

Material: ABS/PC	Sample E29	106.06	Degrees C	2.00% COV
	Sample E30	106.57	Degrees C	2.28% COV

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

Material: PP	Sample G29	82.886	Degrees C	3.54% COV
	Sample G30	82.898	Degrees C	3.17% COV

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

Material: HIPS	Sample N29	80.445	Degrees C	1.17% COV
	Sample N30	80.453	Degrees C	1.12% COV

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

Material: ABS/PC	Sample H29	99.039	Degrees C	0.910% COV
	Sample H30	99.056	Degrees C	0.874% COV

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

Material: ABS/PC	Sample R29	101.16	Degrees C	0.894% COV
	Sample R30	101.14	Degrees C	0.972% COV

#### Analysis 718 - Specific Gravity

Material: ABS/PC	Sample T29	1.1837	sp gr 23/23	0.202% COV
	Sample T30	1.1825	sp gr 23/23	0.207% COV

#### Analysis 720 - Flexural Modulus

Material: ABS/PC	Sample J29	424.85	ksi	4.34% COV
	Sample J30	424.93	ksi	4.32% COV

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

Material: ABS/PC	Sample J29	14,392.59	psi	3.30% COV
	Sample J30	14,377.50	psi	3.36% COV

#### Analysis 722 - Flexural Stress at Yield

Material: ABS/PC	Sample J29	14,334.02	psi	2.92% COV
	Sample J30	14,347.04	psi	2.88% COV

## Results Summary for Web Summary Report #95

### Plastics Interlaboratory Testing Program

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

Material: ABS/PC	Sample C29	65.308	MPa	1.24% COV
	Sample C30	65.340	MPa	1.16% COV

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

Material: ABS/PC	Sample C29	47.598	MPa	2.10% COV
	Sample C30	47.533	MPa	2.07% COV

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

Material: ABS/PC	Sample C29	3.5587	Percent	2.29% COV
	Sample C30	3.5599	Percent	2.20% COV

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

Material: ABS/PC	Sample C29	2,792.55	MPa	2.48% COV
	Sample C30	2,792.39	MPa	2.18% COV

#### Analysis 736 - Flexural Modulus

Material: ABS/PC	Sample K29	2,837.13	MPa	3.61% COV
	Sample K30	2,828.88	MPa	3.49% COV

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

Material: ABS/PC	Sample K29	91.056	MPa	2.89% COV
	Sample K30	91.022	MPa	2.72% COV

#### Analysis 738 - Flexural Stress at Yield

Material: ABS/PC	Sample K29	99.373	MPa	2.26% COV
	Sample K30	99.437	MPa	2.17% COV

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

Material: LDPE	Sample X29	7.0326	grams/10 mi	4.36% COV
	Sample X30	5.8867	grams/10 mi	4.01% COV

#### Analysis 755 - Moisture Content

Material: ABS/PC	Sample Y29	0.11791	Percent	22.6% COV
	Sample Y30	0.12391	Percent	23.2% COV

#### Analysis 757 - Ash Content

Material: PBT	Sample L29	17.878	Percent	1.06% COV
	Sample L30	17.871	Percent	1.01% COV

#### Analysis 760 - DSC

Material: PBT	Sample W29	189.12	Degrees Cel:	1.48% COV
	Sample W30	189.09	Degrees Cel:	1.54% COV

#### Analysis 761 - DSC

Material: PBT	Sample W29	223.83	Degrees Cel:	0.650% COV
	Sample W30	223.72	Degrees Cel:	0.589% COV

#### Analysis 762 - DSC

Material: PBT	Sample W29	45.654	Joules Per (	9.03% COV
	Sample W30	45.949	Joules Per (	10.8% COV

## Results Summary for Web Summary Report #95

### Plastics Interlaboratory Testing Program

#### Analysis 763 - DSC

Material: PBT	Sample W29	41.754	Joules Per (	14.0% COV
	Sample W30	41.805	Joules Per (	15.1% COV

#### Analysis 764 - DSC

Material: PET	Sample V29	109.20	Degrees Cel:	3.31% COV
	Sample V30	109.10	Degrees Cel:	3.64% COV

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

Material: LDPE	Sample B29	2,214.01	psi	36.4% COV
	Sample B30	2,225.95	psi	36.5% COV

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

Material: LDPE	Sample B29	3,284.36	psi	9.29% COV
	Sample B30	3,222.80	psi	10.1% COV

#### Analysis 772 - Elongation at Yield, Films

Material: LDPE	Sample B29	239.89	Percent	121% COV
	Sample B30	246.49	Percent	118% COV

#### Analysis 773 - Elongation at Break, Films

Material: LDPE	Sample B29	645.92	Percent	19.1% COV
	Sample B30	645.56	Percent	20.0% COV

#### Analysis 774 - Thickness of Film Specimens

Material: LDPE	Sample B29	4.2747	mils	3.44% COV
	Sample B30	4.2634	mils	3.25% COV

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

Material: LDPE	Sample B29	30,056.36	psi	10.5% COV
	Sample B30	29,344.67	psi	8.77% COV

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

Material: LDPE	Sample B29	26,573.05	psi	8.63% COV
	Sample B30	25,838.28	psi	7.63% COV

#### Analysis 780 - Static Friction

Material: LDPE	Sample P29	0.11248	COF	23.8% COV
	Sample P30	0.11583	COF	31.1% COV

#### Analysis 781 - Kinetic Friction

Material: LDPE	Sample P29	0.08221	COF	26.3% COV
	Sample P30	0.08167	COF	29.4% COV

#### Analysis 782 - Tear Resistance of Film

Material: LDPE	Sample Q29	603.76	grams-force	11.7% COV
	Sample Q30	626.26	grams-force	9.09% COV

#### Analysis 785 - Percent Haze

Material: LDPE	Sample D29	24.498	Percent	5.29% COV
	Sample D30	24.086	Percent	5.55% COV

## Results Summary for Web Summary Report #95

### Plastics Interlaboratory Testing Program

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#### Analysis 786 - Total Transmittance

Material: LDPE	Sample D29	92.579	Percent	1.26% COV
	Sample D30	92.594	Percent	1.23% COV

#### Analysis 790 - Notched Izod Impact

Material: HIPS	Sample S29	2.8577	ft.lbf/in	13.4% COV
	Sample S30	2.8766	ft.lbf/in	14.4% COV

#### Analysis 791 - Notched Izod Impact

Material: HIPS	Sample Z29	21.806	kJ/m <sup>2</sup>	3.16% COV
	Sample Z30	22.090	kJ/m <sup>2</sup>	2.75% COV

#### Analysis 792 - Notched Charpy Impact

Material: ABS/PC	Sample M29	18.400	kJ/m <sup>2</sup>	14.3% COV
	Sample M30	10.594	kJ/m <sup>2</sup>	15.8% COV



**Plastics Interlaboratory Testing Program**  
**Analysis 704**  
**Tensile Stress at Yield - psi**

WebCode	Data Flag	Sample F29			Sample F30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2D42DV		7,434.7	26.2	0.24	7,428.9	19.2	0.16
2FKNMU		7,324.2	-84.4	-0.78	7,336.9	-72.8	-0.62
2GRLNK	*	7,682.4	273.9	2.52	7,687.4	277.7	2.36
4FUUR4	X	7,084.5	-324.0	-2.98	7,314.8	-94.9	-0.81
4VKVMA	X	6,723.4	-685.1	-6.31	6,694.0	-715.7	-6.10
679FRD		7,419.6	11.0	0.10	7,354.0	-55.8	-0.48
6U2FLD		7,495.8	87.3	0.80	7,412.4	2.7	0.02
74NTZ4		7,336.1	-72.5	-0.67	7,320.7	-89.0	-0.76
7CA24D	*	7,266.5	-142.1	-1.31	7,371.5	-38.3	-0.33
7EVVUM	*	7,193.9	-214.6	-1.98	7,101.1	-308.6	-2.63
7VULNP	*	7,744.2	335.7	3.09	7,729.6	319.9	2.72
82GQWK		7,355.2	-53.3	-0.49	7,300.7	-109.1	-0.93
86GYZU		7,335.4	-73.1	-0.67	7,355.2	-54.5	-0.46
8JDFPT	*	7,191.1	-217.4	-2.00	7,103.0	-306.8	-2.61
943WTL		7,361.6	-46.9	-0.43	7,342.4	-67.3	-0.57
9A3BEM		7,249.4	-159.1	-1.46	7,232.0	-177.7	-1.51
9A49PJ		7,412.6	4.0	0.04	7,449.2	39.4	0.34
9BRWHK		7,519.6	111.1	1.02	7,518.0	108.3	0.92
9LWR4N		7,433.2	24.7	0.23	7,405.8	-3.9	-0.03
AC7B78		7,257.0	-151.5	-1.39	7,268.7	-141.0	-1.20
AHDX2W		7,360.8	-47.7	-0.44	7,348.0	-61.7	-0.53
B4GKDJ		7,199.7	-208.8	-1.92	7,199.7	-210.0	-1.79
BU39TZ		7,420.2	11.7	0.11	7,434.7	25.0	0.21
C8ALKK		7,513.0	104.5	0.96	7,516.4	106.7	0.91
CFB23K	X	7,132.6	-275.9	-2.54	7,262.2	-147.5	-1.26
CKFJMY		7,448.2	39.7	0.37	7,437.6	27.9	0.24
D386MG		7,314.6	-93.9	-0.86	7,288.6	-121.1	-1.03
D3RQB2		7,444.4	35.9	0.33	7,349.8	-59.9	-0.51
DF67WJ		7,496.5	87.9	0.81	7,486.6	76.9	0.65
DT7HVK		7,316.2	-92.3	-0.85	7,354.4	-55.3	-0.47
E9FNLA		7,416.1	7.6	0.07	7,418.2	8.4	0.07
EDKPHX		7,345.6	-62.9	-0.58	7,357.0	-52.8	-0.45

**Plastics Interlaboratory Testing Program**  
**Analysis 704**  
**Tensile Stress at Yield - psi**

WebCode	Data Flag	Sample F29			Sample F30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
FXXQNN	X	6,960.6	-447.9	-4.12	6,989.8	-419.9	-3.58
FYJ9CV		7,359.0	-49.5	-0.46	7,358.4	-51.3	-0.44
G4X6GX		7,442.2	33.7	0.31	7,431.5	21.8	0.19
GLGLTC		7,406.5	-2.0	-0.02	7,384.9	-24.9	-0.21
GNWTJD		7,413.6	5.1	0.05	7,430.9	21.2	0.18
H3XMT2		7,438.3	29.8	0.27	7,359.5	-50.2	-0.43
HMN69Y		7,466.0	57.5	0.53	7,540.0	130.3	1.11
HNM4Q8	X	6,808.8	-599.7	-5.52	6,783.6	-626.1	-5.33
HRXV8U		7,447.6	39.1	0.36	7,457.2	47.5	0.40
J7R3FF		7,504.2	95.7	0.88	7,522.0	112.3	0.96
JB24VR		7,477.2	68.7	0.63	7,474.6	64.9	0.55
JCEQFQ		7,361.2	-47.4	-0.44	7,357.3	-52.5	-0.45
JCPUDX		7,284.8	-123.7	-1.14	7,344.6	-65.1	-0.55
KBTTUC		7,431.0	22.4	0.21	7,444.2	34.5	0.29
KDVR66		7,474.2	65.7	0.60	7,467.4	57.7	0.49
KG4P7R		7,445.8	37.3	0.34	7,434.8	25.1	0.21
KJTWQN		7,517.4	108.9	1.00	7,528.6	118.9	1.01
KXDDFL		7,378.6	-29.9	-0.28	7,434.0	24.3	0.21
LPYR7H		7,513.0	104.5	0.96	7,455.0	45.3	0.39
N4YVUE		7,352.8	-55.7	-0.51	7,335.6	-74.1	-0.63
NAF4PJ		7,452.2	43.7	0.40	7,442.2	32.5	0.28
P6HBGR		7,408.0	-0.5	0.00	7,421.8	12.1	0.10
PX6DT8	X	7,591.6	183.1	1.68	7,313.2	-96.5	-0.82
Q26QEC		7,436.0	27.5	0.25	7,416.0	6.3	0.05
QGPEQ9		7,325.8	-82.7	-0.76	7,364.4	-45.3	-0.39
QT3EM3	X	7,562.0	153.5	1.41	7,422.8	13.1	0.11
QZYB9J		7,438.5	30.0	0.28	7,444.5	34.8	0.30
RCQ3PG		7,496.0	87.5	0.81	7,593.4	183.7	1.56
RFUQBY		7,212.2	-196.3	-1.81	7,170.4	-239.3	-2.04
RG9M4P		7,469.8	61.3	0.56	7,469.4	59.7	0.51
RYMR4G	*	7,318.8	-89.7	-0.83	7,447.0	37.3	0.32
TDALNR		7,366.0	-42.6	-0.39	7,420.8	11.0	0.09

**Plastics Interlaboratory Testing Program  
Analysis 704  
Tensile Stress at Yield - psi**

WebCode	Data Flag	Sample F29			Sample F30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
TFL9P6		7,344.4	-64.1	-0.59	7,344.2	-65.5	-0.56
TJNAP3		7,373.3	-35.3	-0.32	7,440.1	30.4	0.26
U2N2G2		7,342.6	-65.9	-0.61	7,340.4	-69.3	-0.59
UBLNUK		7,344.6	-63.9	-0.59	7,329.0	-80.7	-0.69
UTAPVH		7,438.0	29.5	0.27	7,458.0	48.3	0.41
VUCWRF		7,471.6	63.1	0.58	7,484.2	74.5	0.63
W388LB		7,324.0	-84.5	-0.78	7,358.0	-51.7	-0.44
WNWZUQ		7,286.8	-121.8	-1.12	7,248.2	-161.6	-1.38
X9H8NY		7,576.8	168.3	1.55	7,617.4	207.7	1.77
XAG6KE	*	7,699.0	290.4	2.67	7,701.9	292.1	2.49
XQWM7U		7,473.2	64.7	0.60	7,475.8	66.1	0.56
XUGHNT		7,327.8	-80.7	-0.74	7,355.8	-53.9	-0.46
Y3GYMQ		7,566.4	157.9	1.45	7,575.7	165.9	1.41
ZN4GGE		7,513.0	104.5	0.96	7,504.3	94.6	0.81

Summary Statistics	
Grand Means	7,408.54 psi      7,409.75 psi
Std Dev Btwn Labs	108.64 psi      117.41 psi
Statistics based on 71 of 78 reporting participants	

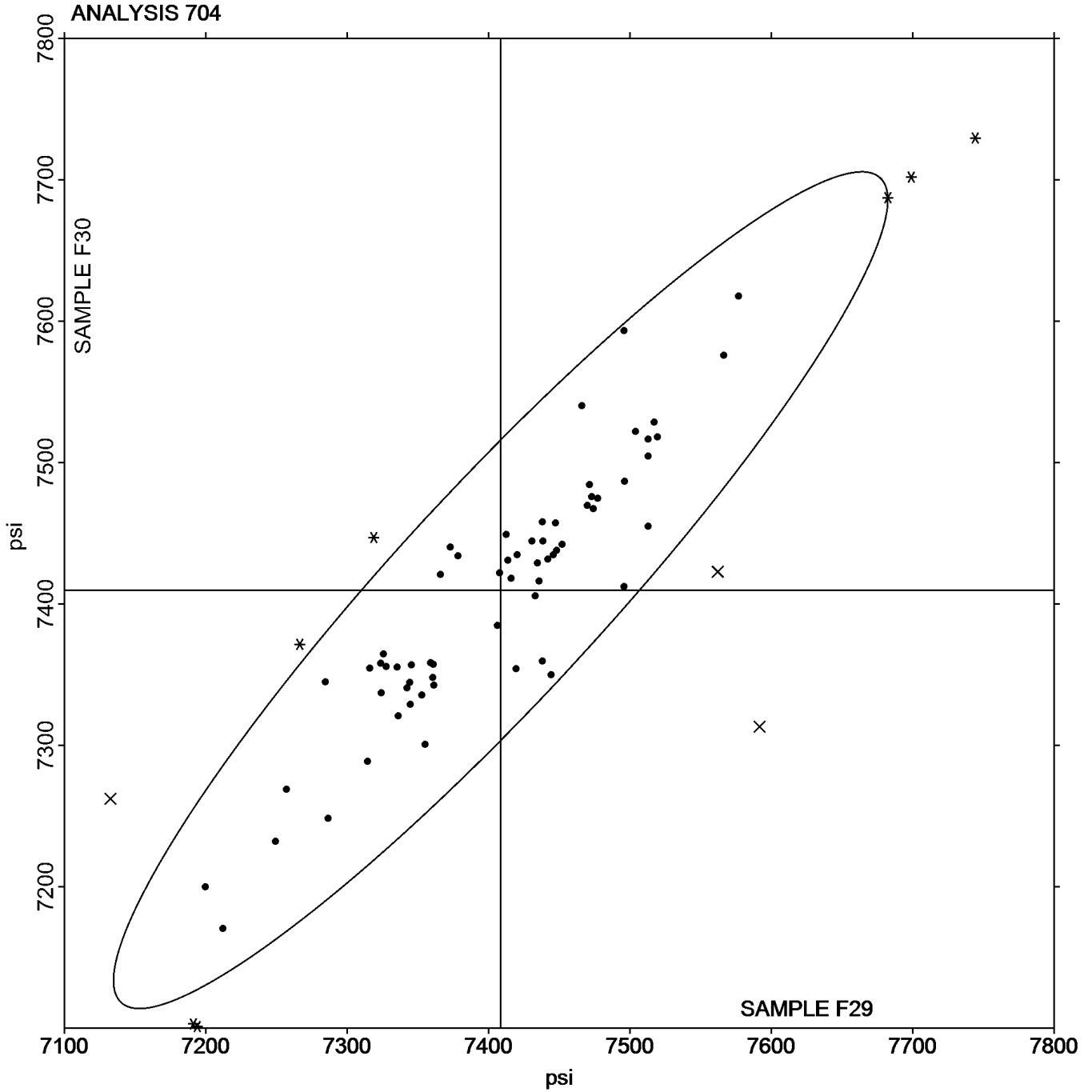
Sample F29: ABS & Sample F30: ABS

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

- 4FUUR4 (X) - Inconsistent in testing between samples, data for Sample F29 are low. Also inconsistent in testing within Sample F29.
- 4VKVMA (X) - Data for both samples are low.
- CFB23K (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.
- FXXQNN (X) - Data for both samples are low. Possible Systematic Error.
- HNM4Q8 (X) - Data for both samples are low.
- PX6DT8 (X) - Inconsistent in testing between samples.
- QT3EM3 (X) - Inconsistent in testing between samples.

Plastics Interlaboratory Testing Program  
Analysis 704  
Tensile Stress at Yield - psi

Grand Mean Sample F29: 7,408.54 psi    Grand Mean Sample F30: 7,409.75 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 705

## Tensile Stress at Break - psi

WebCode	Data Flag	Sample F29			Sample F30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2D42DV		5,505.7	230.1	1.40	5,494.1	203.4	1.22
2FKNMU	X	5,798.1	522.5	3.18	5,896.7	606.0	3.64
2GRLNK	*	4,877.8	-397.8	-2.42	5,170.4	-120.3	-0.72
4VKVMA	*	4,858.2	-417.4	-2.54	5,021.2	-269.5	-1.62
679FRD		5,287.1	11.5	0.07	5,196.2	-94.5	-0.57
6U2FLD	X	5,885.0	609.4	3.70	5,676.8	386.1	2.32
74NTZ4		5,163.1	-112.5	-0.68	5,155.0	-135.7	-0.82
7CA24D		5,123.1	-152.5	-0.93	5,125.1	-165.6	-1.00
7EVVUM		4,989.3	-286.2	-1.74	4,954.5	-336.2	-2.02
7VULNP		5,470.8	195.2	1.19	5,560.6	269.9	1.62
82GQWK		5,263.5	-12.1	-0.07	5,133.2	-157.5	-0.95
86GYZU		5,347.8	72.2	0.44	5,388.4	97.7	0.59
8JDFPT		5,145.9	-129.7	-0.79	5,003.7	-287.1	-1.73
943WTL		5,267.2	-8.4	-0.05	5,251.4	-39.3	-0.24
9A3BEM		5,390.8	115.2	0.70	5,444.0	153.3	0.92
9A49PJ		5,353.1	77.5	0.47	5,417.4	126.7	0.76
9BRWHK		5,397.8	122.2	0.74	5,386.0	95.3	0.57
9LWR4N		5,144.4	-131.2	-0.80	5,244.0	-46.7	-0.28
AC7B78	X	4,584.6	-691.0	-4.20	4,583.4	-707.3	-4.25
B4GKDJ		5,154.7	-120.9	-0.73	5,157.6	-133.1	-0.80
BU39TZ		5,151.8	-123.8	-0.75	5,230.1	-60.6	-0.36
C8ALKK		5,281.4	5.8	0.04	5,288.0	-2.7	-0.02
CFB23K	*	4,901.4	-374.2	-2.27	5,187.2	-103.5	-0.62
CKFJMY		5,273.2	-2.4	-0.01	5,315.0	24.3	0.15
D386MG		5,193.8	-81.8	-0.50	5,316.4	25.7	0.15
D3RQB2	*	5,241.0	-34.6	-0.21	4,999.0	-291.7	-1.75
DF67WJ		5,482.8	207.2	1.26	5,548.6	257.9	1.55
E9FNLA		5,171.5	-104.1	-0.63	5,177.6	-113.1	-0.68
EDKPHX		5,182.2	-93.3	-0.57	5,202.3	-88.5	-0.53
FXXQNN		5,126.4	-149.2	-0.91	5,334.6	43.9	0.26
FYJ9CV		5,020.0	-255.6	-1.55	5,080.0	-210.7	-1.27
G4X6GX		5,065.9	-209.7	-1.27	5,110.6	-180.1	-1.08

**Plastics Interlaboratory Testing Program**  
**Analysis 705**  
**Tensile Stress at Break - psi**

WebCode	Data Flag	Sample F29			Sample F30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
GC3A8T		5,402.0	126.4	0.77	5,326.0	35.3	0.21
GLGLTC		5,402.3	126.7	0.77	5,354.8	64.1	0.39
GNWTJD		5,209.0	-66.6	-0.40	5,191.4	-99.3	-0.60
H3XMT2		5,420.3	144.7	0.88	5,359.2	68.5	0.41
HMN69Y		5,120.0	-155.6	-0.95	5,022.0	-268.7	-1.62
HNM4Q8	*	4,895.8	-379.8	-2.31	4,857.4	-433.3	-2.61
HRXV8U		5,505.8	230.2	1.40	5,479.8	189.1	1.14
J7R3FF		5,328.6	53.0	0.32	5,342.2	51.5	0.31
JB24VR		5,274.0	-1.6	-0.01	5,153.0	-137.7	-0.83
JCEQFQ		5,386.7	111.1	0.68	5,376.1	85.4	0.51
KBTUC		5,399.7	124.2	0.75	5,315.7	25.0	0.15
KDVR66		5,260.8	-14.8	-0.09	5,263.6	-27.1	-0.16
KG4P7R		5,443.9	168.3	1.02	5,458.3	167.6	1.01
KJTWQN	X	5,985.0	709.4	4.31	5,901.6	610.9	3.67
KXDDFL		5,205.4	-70.2	-0.43	5,235.4	-55.3	-0.33
LPYR7H	*	5,279.4	3.8	0.02	5,569.5	278.8	1.68
N4YVUE		5,335.2	59.6	0.36	5,529.0	238.3	1.43
NAF4PJ		5,322.2	46.6	0.28	5,218.0	-72.7	-0.44
P6HBGR		5,344.6	69.0	0.42	5,339.0	48.3	0.29
PX6DT8		5,416.8	141.2	0.86	5,345.6	54.9	0.33
QGPEQ9		5,269.4	-6.2	-0.04	5,322.0	31.3	0.19
QT3EM3		5,489.7	214.1	1.30	5,350.2	59.5	0.36
QZYB9J		5,503.4	227.8	1.38	5,558.6	267.9	1.61
RCQ3PG		5,294.8	19.2	0.12	5,396.6	105.9	0.64
RFUQBY	*	5,479.6	204.0	1.24	5,184.9	-105.9	-0.64
RG9M4P		5,416.8	141.2	0.86	5,477.0	186.3	1.12
RYMR4G		5,322.8	47.2	0.29	5,338.2	47.5	0.29
TDALNR		5,621.4	345.8	2.10	5,593.9	303.1	1.82
TFL9P6		5,317.6	42.0	0.26	5,219.8	-70.9	-0.43
TJNAP3		5,270.0	-5.6	-0.03	5,309.0	18.3	0.11
U2N2G2		5,126.2	-149.4	-0.91	5,180.8	-109.9	-0.66
VUCWRF		5,313.8	38.2	0.23	5,300.0	9.3	0.06

**Plastics Interlaboratory Testing Program**  
**Analysis 705**  
**Tensile Stress at Break - psi**

WebCode	Data Flag	Sample F29			Sample F30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
X9H8NY		5,241.7	-33.9	-0.21	5,291.0	0.3	0.00
XAG6KE		5,549.5	273.9	1.66	5,581.7	291.0	1.75
XQWM7U		5,318.6	43.0	0.26	5,479.2	188.5	1.13
XUGHNT		5,354.6	79.0	0.48	5,554.4	263.7	1.59
Y3GYMQ		5,194.4	-81.2	-0.49	5,157.0	-133.7	-0.80
ZN4GGE		5,320.0	44.4	0.27	5,264.9	-25.8	-0.16

**Summary Statistics**

## Grand Means

5,275.58 psi

5,290.72 psi

## Std Dev Btwn Labs

164.56 psi

166.32 psi

Statistics based on 66 of 70 reporting participants

Sample F29: ABS &amp; Sample F30: ABS

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

2FKNMU (X) - Data for both samples are high.

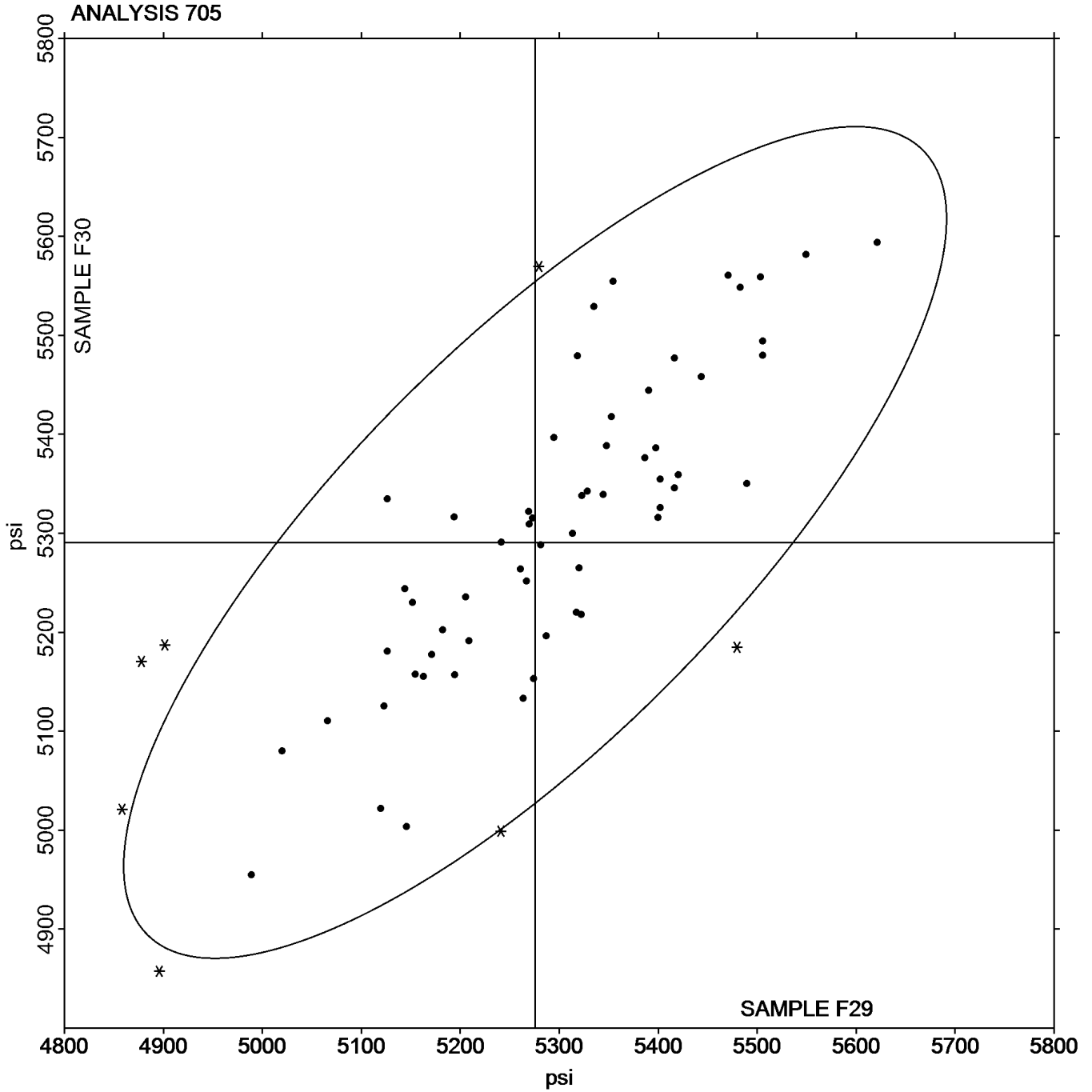
6U2FLD (X) - Inconsistent in testing between samples, data for Sample F29 are high.

AC7B78 (X) - Data for both samples are low. Also inconsistent in testing within both samples.

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

Plastics Interlaboratory Testing Program  
Analysis 705  
Tensile Stress at Break - psi

Grand Mean Sample F29: 5,275.58 psi      Grand Mean Sample F30: 5,290.72 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 F29			Sample F30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2D42DV		3.020	0.059	0.84	3.020	0.061	0.81
2FKNMU		2.996	0.035	0.50	2.992	0.033	0.44
2GRLNK	X	9.788	6.827	97.43	9.458	6.499	86.71
4FUUR4		2.958	-0.003	-0.05	2.936	-0.023	-0.31
6U2FLD	X	0.584	-2.377	-33.92	0.588	-2.371	-31.64
74NTZ4		2.934	-0.027	-0.38	3.010	0.051	0.68
7CA24D	X	2.116	-0.845	-12.06	2.332	-0.627	-8.37
7EVVUM		2.828	-0.133	-1.90	2.784	-0.175	-2.34
7VULNP		2.962	0.001	0.02	3.000	0.041	0.54
86GYZU		2.956	-0.005	-0.07	3.004	0.045	0.60
8JDFPT	X	1.600	-1.361	-19.42	1.600	-1.359	-18.14
943WTL		2.944	-0.017	-0.24	2.954	-0.005	-0.07
9A3BEM		2.924	-0.037	-0.53	2.972	0.013	0.17
9A49PJ	*	3.089	0.129	1.83	2.982	0.023	0.30
9BRWHK		3.004	0.043	0.62	3.002	0.043	0.57
9LWR4N		2.892	-0.069	-0.98	2.880	-0.079	-1.06
AC7B78	X	9.371	6.411	91.49	9.042	6.083	81.16
AHDX2W		2.936	-0.025	-0.36	2.926	-0.033	-0.44
B4GKDJ	X	6.452	3.491	49.82	6.570	3.611	48.18
BU39TZ		2.860	-0.101	-1.44	2.870	-0.089	-1.19
C8ALKK		2.896	-0.065	-0.93	2.902	-0.057	-0.76
CFB23K	X	2.216	-0.745	-10.63	2.322	-0.637	-8.50
CKFJMY		3.062	0.101	1.44	3.058	0.099	1.32
D386MG		3.002	0.041	0.59	3.068	0.109	1.45
D3RQB2	*	3.014	0.053	0.76	2.872	-0.087	-1.16
DF67WJ		2.880	-0.081	-1.15	2.880	-0.079	-1.06
DT7HVK		2.906	-0.055	-0.78	2.926	-0.033	-0.44
E9FNLA		3.020	0.059	0.84	3.002	0.043	0.57
FXXQNN	X	2.810	-0.151	-2.15	3.502	0.543	7.24
FYJ9CV		2.980	0.019	0.27	2.920	-0.039	-0.52
G4X6GX		3.002	0.041	0.59	2.976	0.017	0.22
GLGLTC	*	3.069	0.108	1.55	3.169	0.210	2.80

**Plastics Interlaboratory Testing Program**  
**Analysis 706**  
**Percent Elongation at Yield - Percent**

WebCode	Data Flag	Sample F29			Sample F30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
H3XMT2		2.895	-0.066	-0.94	2.881	-0.078	-1.04
HMN69Y		2.844	-0.117	-1.67	2.844	-0.115	-1.54
HNM4Q8	*	2.808	-0.153	-2.18	2.762	-0.197	-2.63
HRXV8U		3.004	0.043	0.62	2.968	0.009	0.12
J7R3FF		3.026	0.065	0.93	3.016	0.057	0.76
JB24VR		2.974	0.013	0.19	2.968	0.009	0.12
JCEQFQ		3.068	0.107	1.53	3.038	0.079	1.05
KBTTUC	X	4.000	1.039	14.83	4.000	1.041	13.89
KDVR66		2.924	-0.037	-0.53	2.924	-0.035	-0.47
KXDDFL		2.884	-0.077	-1.10	2.870	-0.089	-1.19
LPYR7H		2.950	-0.011	-0.16	2.976	0.017	0.22
NAF4PJ		2.840	-0.121	-1.73	2.898	-0.061	-0.82
P6HBGR	X	17.516	14.555	207.72	15.876	12.917	172.35
PX6DT8		2.980	0.019	0.27	3.066	0.107	1.42
Q26QEC		2.862	-0.099	-1.41	2.904	-0.055	-0.74
QGPEQ9		2.978	0.017	0.24	3.016	0.057	0.76
QZYB9J	X	10.312	7.351	104.91	6.410	3.451	46.04
RCQ3PG	X	3.220	0.259	3.70	3.284	0.325	4.33
RFUQBY		3.046	0.085	1.21	3.070	0.111	1.48
RG9M4P		3.014	0.053	0.76	2.944	-0.015	-0.20
RYMR4G		2.982	0.021	0.30	2.950	-0.009	-0.12
TDALNR		2.874	-0.087	-1.24	2.922	-0.037	-0.50
TFL9P6		3.002	0.041	0.59	2.972	0.013	0.17
TJNAP3		3.016	0.055	0.79	3.000	0.041	0.54
U2N2G2		2.988	0.027	0.39	2.970	0.011	0.14
VUCWRF		2.970	0.009	0.13	2.986	0.027	0.36
X9H8NY		2.900	-0.061	-0.87	2.900	-0.059	-0.79
XAG6KE		3.056	0.095	1.36	3.056	0.097	1.29
XQWM7U		3.050	0.089	1.27	3.008	0.049	0.65
XUGHNT		2.918	-0.043	-0.61	2.920	-0.039	-0.52
Y3GYMQ		3.018	0.057	0.82	2.988	0.029	0.38
ZN4GGE	X	5.846	2.885	41.17	5.218	2.259	30.14

**Plastics Interlaboratory Testing Program  
Analysis 706  
Percent Elongation at Yield - Percent**

		Summary Statistics	
Grand Means	2.9609 Percent	2.9593	Percent
Std Dev Btwn Labs	0.0701 Percent	0.0749	Percent
Statistics based on 51 of 64 reporting participants			

Sample F29: ABS & Sample F30: ABS

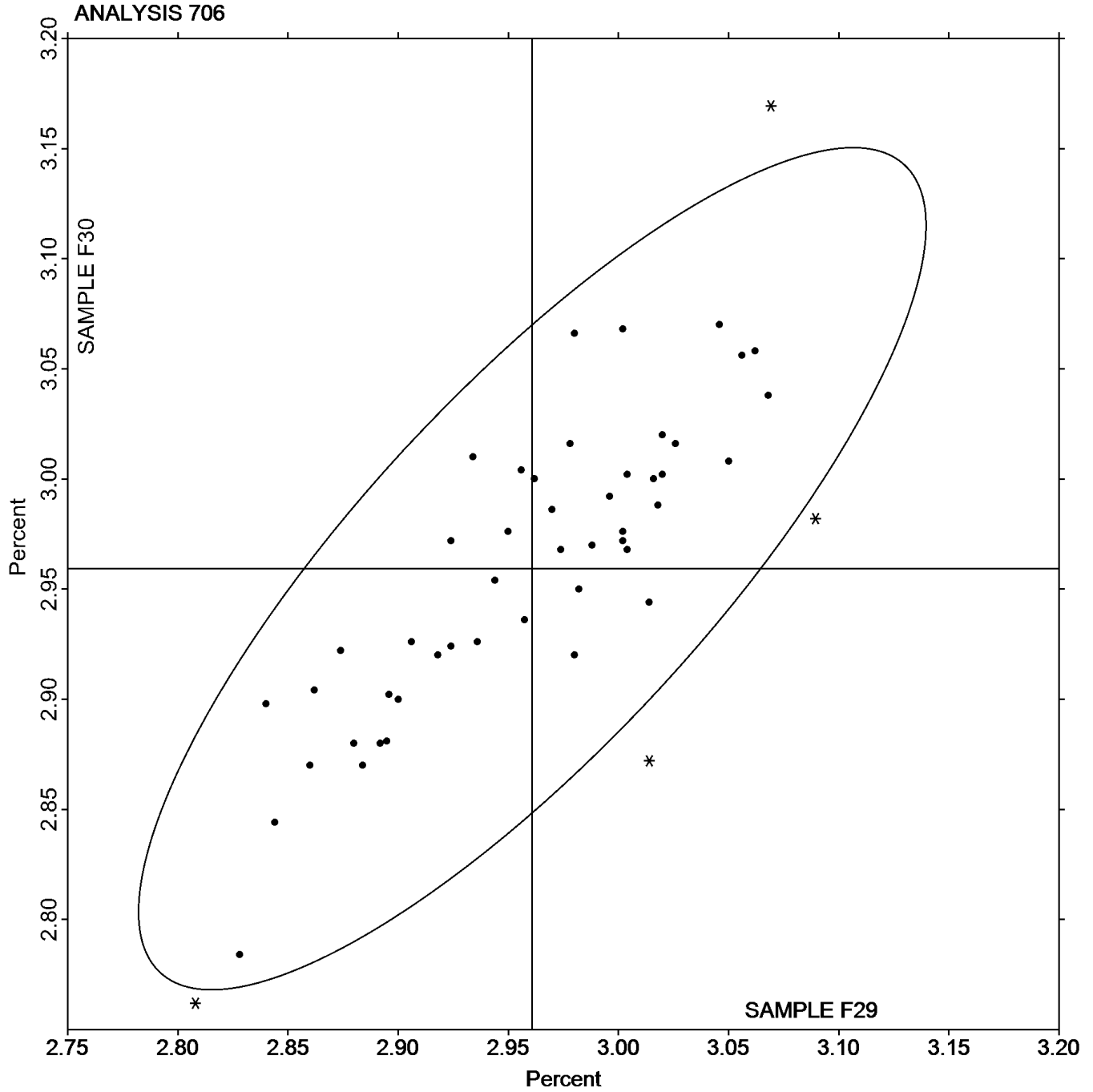
**Comments on assigned Data Flags for Test #706**

- 2GRLNK (X) - Data for both samples are high. Also inconsistent in testing within Sample F29.
- 6U2FLD (X) - Data for both samples are low.
- 7CA24D (X) - Data for both samples are low. Also inconsistent in testing within both samples.
- 8JDFPT (X) - Data for both samples are low.
- AC7B78 (X) - Data for both samples are high. Also inconsistent in testing within both samples.
- B4GKDJ (X) - Data for both samples are high.
- CFB23K (X) - Data for both samples are low. Also inconsistent in testing within both samples.
- FXXQNN (X) - Inconsistent in testing between samples, data for Sample F30 are high. Also inconsistent in testing within both samples.
- KBTTUC (X) - Data for both samples are high.
- P6HBGR (X) - Data for both samples are high. Also inconsistent in testing within both samples.
- QZYB9J (X) - Data for both samples are high. Also inconsistent in testing within both samples.
- RCQ3PG (X) - Data for both samples are high. Also inconsistent in testing within Sample F29.
- ZN4GGE (X) - Data for both samples are high. Also inconsistent in testing within Sample F29.

Plastics Interlaboratory Testing Program  
Analysis 706  
Percent Elongation at Yield - Percent

Grand Mean Sample F29: 2.9609 Percent

Grand Mean Sample F30: 2.9593 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 F29			Sample F30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2D42DV	*	369.27	16.54	1.09	351.86	0.90	0.06
2FKNMU	*	312.09	-40.64	-2.68	311.69	-39.28	-2.68
4FUUR4	*	381.93	29.19	1.92	387.76	36.79	2.51
6U2FLD	X	1,607.76	1,255.03	82.71	1,591.88	1,240.91	84.73
74NTZ4		337.39	-15.34	-1.01	333.94	-17.03	-1.16
7CA24D	X	431.53	78.80	5.19	411.71	60.74	4.15
7EVVUM	X	3.64	-349.09	-23.01	3.93	-347.03	-23.70
7VULNP		345.37	-7.36	-0.48	336.49	-14.48	-0.99
86GYZU		343.24	-9.49	-0.63	332.76	-18.21	-1.24
943WTL		335.14	-17.59	-1.16	335.00	-15.97	-1.09
9A3BEM		340.18	-12.55	-0.83	350.52	-0.45	-0.03
9A49PJ		334.01	-18.72	-1.23	339.47	-11.50	-0.79
9BRWHK		351.24	-1.49	-0.10	348.10	-2.87	-0.20
AC7B78	X	113.68	-239.05	-15.75	117.51	-233.46	-15.94
AHDX2W		359.72	6.99	0.46	345.92	-5.05	-0.34
B4GKDJ	X	153.45	-199.28	-13.13	148.87	-202.10	-13.80
BU39TZ		352.65	-0.08	-0.01	350.56	-0.41	-0.03
C8ALKK		356.07	3.33	0.22	356.83	5.86	0.40
CFB23K		363.58	10.85	0.71	355.44	4.48	0.31
CKFJMY		350.02	-2.71	-0.18	348.78	-2.19	-0.15
D386MG		338.42	-14.31	-0.94	332.40	-18.57	-1.27
D3RQB2		374.18	21.45	1.41	361.42	10.45	0.71
DF67WJ		349.46	-3.28	-0.22	350.65	-0.32	-0.02
DT7HVK		365.42	12.69	0.84	357.68	6.71	0.46
E9FNLA		344.41	-8.32	-0.55	343.60	-7.37	-0.50
FXXQNN	X	174.64	-178.09	-11.74	170.14	-180.83	-12.35
FYJ9CV		339.60	-13.13	-0.87	343.00	-7.97	-0.54
G4X6GX		355.72	2.99	0.20	351.26	0.29	0.02
GLGLTC	X	338.46	-14.27	-0.94	308.26	-42.71	-2.92
H3XMT2		371.53	18.80	1.24	368.88	17.92	1.22
HMN69Y		365.60	12.87	0.85	362.80	11.83	0.81
HNM4Q8		349.70	-3.03	-0.20	353.02	2.05	0.14

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

WebCode	Data Flag	Sample F29			Sample F30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
J7R3FF		348.42	-4.31	-0.28	348.44	-2.53	-0.17
JB24VR		338.67	-14.06	-0.93	339.20	-11.76	-0.80
JCEQFQ		325.31	-27.42	-1.81	325.46	-25.51	-1.74
KBTUC	*	380.82	28.09	1.85	388.36	37.40	2.55
KDVR66		347.62	-5.11	-0.34	346.76	-4.21	-0.29
KXDDFL		372.67	19.94	1.31	371.72	20.75	1.42
LPYR7H		365.32	12.59	0.83	356.91	5.95	0.41
NAF4PJ		327.18	-25.55	-1.68	331.68	-19.29	-1.32
PX6DT8		357.28	4.55	0.30	356.58	5.61	0.38
Q26QEC		374.20	21.47	1.41	367.80	16.83	1.15
QGPEQ9		362.40	9.67	0.64	360.56	9.59	0.66
QZYB9J	X	656.28	303.55	20.00	552.97	202.00	13.79
RCQ3PG		370.18	17.45	1.15	372.08	21.11	1.44
RFUQBY		352.56	-0.17	-0.01	347.54	-3.42	-0.23
RG9M4P		358.74	6.01	0.40	354.26	3.29	0.22
TDALNR		362.21	9.48	0.62	364.90	13.94	0.95
TFL9P6		347.10	-5.63	-0.37	343.74	-7.23	-0.49
TJNAP3		355.94	3.21	0.21	359.60	8.63	0.59
U2N2G2		356.52	3.79	0.25	354.47	3.51	0.24
UBLNUK		365.47	12.74	0.84	364.47	13.51	0.92
VUCWRF		340.22	-12.51	-0.82	345.40	-5.57	-0.38
X9H8NY		324.08	-28.66	-1.89	325.29	-25.67	-1.75
XAG6KE		366.10	13.37	0.88	361.27	10.30	0.70
XQWM7U		338.60	-14.13	-0.93	342.20	-8.77	-0.60
XUGHNT		355.77	3.04	0.20	353.22	2.26	0.15
Y3GYMQ		346.52	-6.22	-0.41	346.70	-4.27	-0.29
Y9GMVH		363.50	10.77	0.71	360.80	9.83	0.67
ZN4GGE	X	152.00	-200.73	-13.23	158.38	-192.58	-13.15

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

**Summary Statistics**

## Grand Means

352.732 ksi

350.965 ksi

## Std Dev Btwn Labs

15.174 ksi

14.645 ksi

Statistics based on 51 of 60 reporting participants

Sample F29: ABS &amp; Sample F30: ABS

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

6U2FLD (X) - Data for both samples are high. Also inconsistent in testing within both samples.

7CA24D (X) - Data for both samples are high. Also inconsistent in testing within both samples.

7EVVUM (X) - Data for both samples are low.

AC7B78 (X) - Data for both samples are low.

B4GKDJ (X) - Data for both samples are low.

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

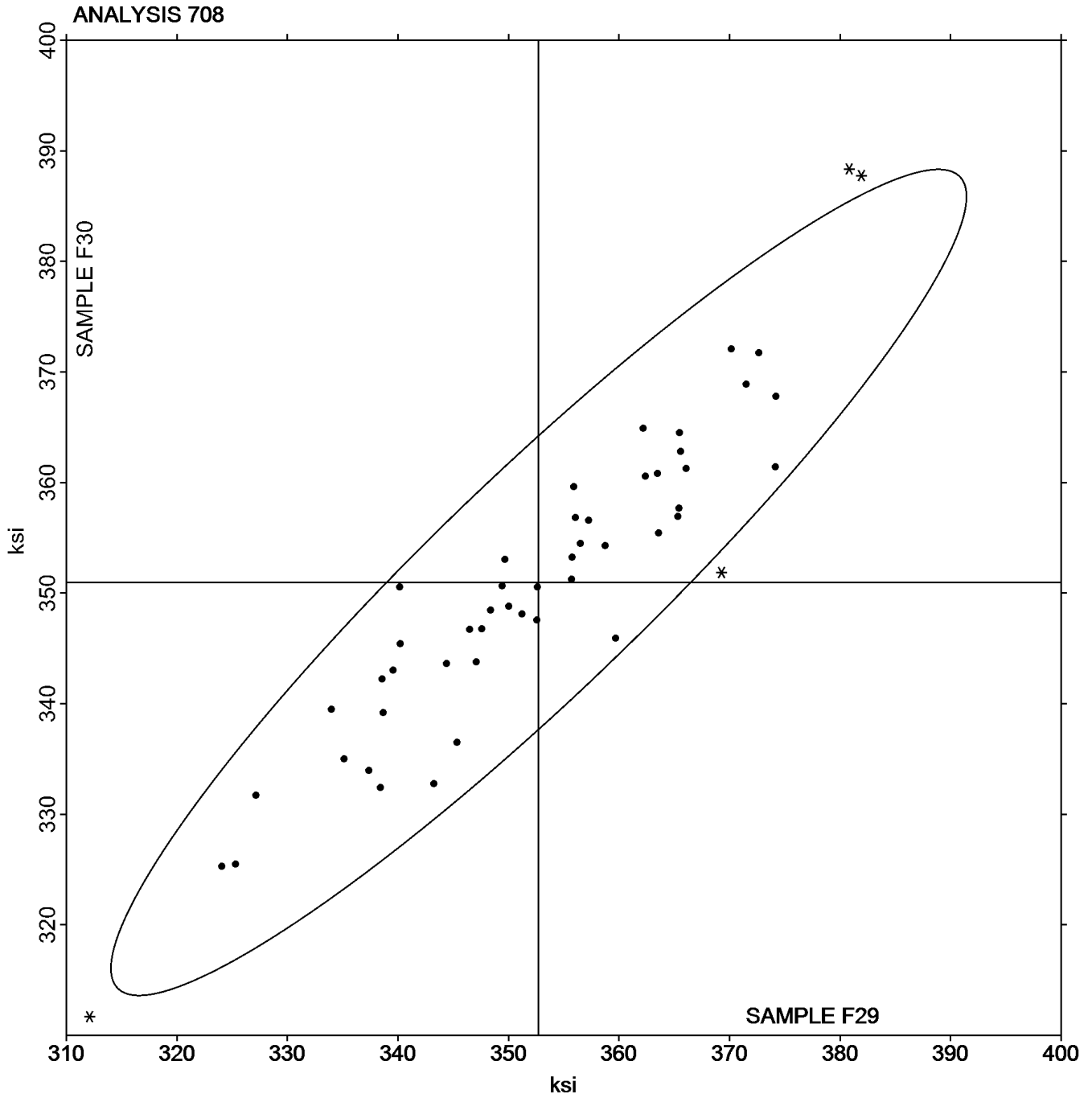
GLGLTC (X) - Inconsistent in testing between samples, data for Sample F30 are low. Also inconsistent in testing within both samples.

QZYB9J (X) - Data for both samples are high. Also inconsistent in testing within both samples.

ZN4GGE (X) - Data for both samples are low.

Plastics Interlaboratory Testing Program  
Analysis 708  
Modulus of Elasticity - ksi

Grand Mean Sample F29: 352.73 ksi    Grand Mean Sample F30: 350.97 ksi



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 730**  
**Tensile Stress at Yield - MPa**

WebCode	Data Flag	Sample C29			Sample C30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
26TR8F		66.33	1.02	1.26	66.89	1.55	2.04
2BLP6K		64.67	-0.64	-0.79	64.94	-0.40	-0.52
4EHK3H		64.49	-0.82	-1.02	64.76	-0.58	-0.76
4VKVMA		65.98	0.67	0.83	66.24	0.90	1.18
6CNL46		65.71	0.40	0.49	65.81	0.47	0.61
74NTZ4		64.02	-1.29	-1.59	64.46	-0.88	-1.15
8FV466		65.28	-0.03	-0.03	65.16	-0.18	-0.24
943WTL		64.72	-0.59	-0.73	64.50	-0.84	-1.10
9BRWHK		65.62	0.31	0.39	65.26	-0.08	-0.10
AR3TW7		65.91	0.60	0.75	65.97	0.63	0.83
BGDG4P		65.14	-0.17	-0.21	65.14	-0.20	-0.27
BU39TZ		65.74	0.43	0.54	66.26	0.92	1.21
D2DEG3	X	65.64	0.33	0.41	68.66	3.32	4.36
E4XQRR		65.26	-0.05	-0.06	65.31	-0.03	-0.04
E9FNLA		66.05	0.74	0.92	65.81	0.47	0.61
EFDBFU		65.84	0.53	0.66	65.56	0.22	0.28
ER4A4C		64.83	-0.47	-0.59	64.37	-0.97	-1.28
F4FYFM		67.05	1.74	2.16	67.00	1.66	2.18
FMLB43		65.76	0.45	0.56	65.86	0.52	0.68
FX99BV		66.10	0.79	0.98	65.66	0.32	0.42
G4X6GX		65.72	0.41	0.51	65.74	0.40	0.53
G9FPW6		64.68	-0.63	-0.78	64.81	-0.53	-0.70
G9W2B4		65.45	0.14	0.17	65.50	0.16	0.22
GHTM7V		65.23	-0.08	-0.10	65.32	-0.02	-0.03
GNVXYL		64.99	-0.32	-0.39	65.11	-0.23	-0.31
GNWTJD		65.70	0.40	0.49	65.39	0.05	0.06
HCKPVU		64.29	-1.02	-1.26	64.52	-0.82	-1.07
HMN69Y		66.15	0.84	1.05	66.53	1.19	1.56
HRXV8U		66.02	0.71	0.88	66.23	0.89	1.17
J2FW3U		66.23	0.92	1.14	65.80	0.46	0.60
KCBPQB		63.94	-1.37	-1.69	63.67	-1.67	-2.20
KUAPWP		65.65	0.34	0.42	65.90	0.56	0.74

**Plastics Interlaboratory Testing Program**  
**Analysis 730**  
**Tensile Stress at Yield - MPa**

WebCode	Data Flag	Sample C29			Sample C30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
LFFZRB		64.90	-0.41	-0.50	64.91	-0.43	-0.56
MAEQPH		66.16	0.85	1.05	66.10	0.76	0.99
MXL8AC		65.19	-0.12	-0.14	65.51	0.17	0.22
NDBY9H		64.55	-0.76	-0.94	64.95	-0.39	-0.52
NTCZCQ	X	60.80	-4.51	-5.58	60.40	-4.94	-6.49
P6HBGR		65.10	-0.21	-0.26	65.60	0.26	0.34
PMPDEY	*	63.25	-2.06	-2.55	64.17	-1.17	-1.53
PUPURQ		65.22	-0.09	-0.11	64.94	-0.40	-0.53
QMK47Z	*	62.95	-2.36	-2.92	63.12	-2.22	-2.91
RCQ3PG		65.97	0.67	0.82	65.91	0.57	0.75
REVNKU		64.52	-0.78	-0.97	64.92	-0.42	-0.56
RYMR4G		64.62	-0.68	-0.85	65.16	-0.18	-0.24
T2J3BZ		64.36	-0.95	-1.17	64.38	-0.96	-1.26
U4TNWQ		65.96	0.65	0.81	65.44	0.10	0.13
UL8L7J		65.58	0.27	0.34	66.06	0.72	0.95
VUYFGM		65.22	-0.09	-0.11	65.00	-0.34	-0.45
W4GGA2		66.86	1.55	1.92	66.28	0.94	1.24
WQFLFF		65.61	0.30	0.37	65.49	0.15	0.20
XBWMJD		66.26	0.95	1.17	66.18	0.84	1.10
XEU29N	*	65.21	-0.10	-0.12	64.35	-0.99	-1.30
XFNRE4		65.37	0.06	0.07	65.21	-0.13	-0.17
XZPWF		65.54	0.23	0.28	65.59	0.25	0.33
Y3GYMQ		65.78	0.47	0.59	65.58	0.24	0.32
Y7H64H		64.56	-0.75	-0.93	64.26	-1.08	-1.42
YWBCQG		64.66	-0.65	-0.80	65.14	-0.20	-0.26

**Plastics Interlaboratory Testing Program**  
**Analysis 730**  
**Tensile Stress at Yield - MPa**

**Summary Statistics**

Grand Means

65.308 MPa

65.340 MPa

Std Dev Btwn Labs

0.807 MPa

0.761 MPa

Statistics based on 55 of 57 reporting participants

Sample C29: ABS/PC &amp; Sample C30: ABS/PC

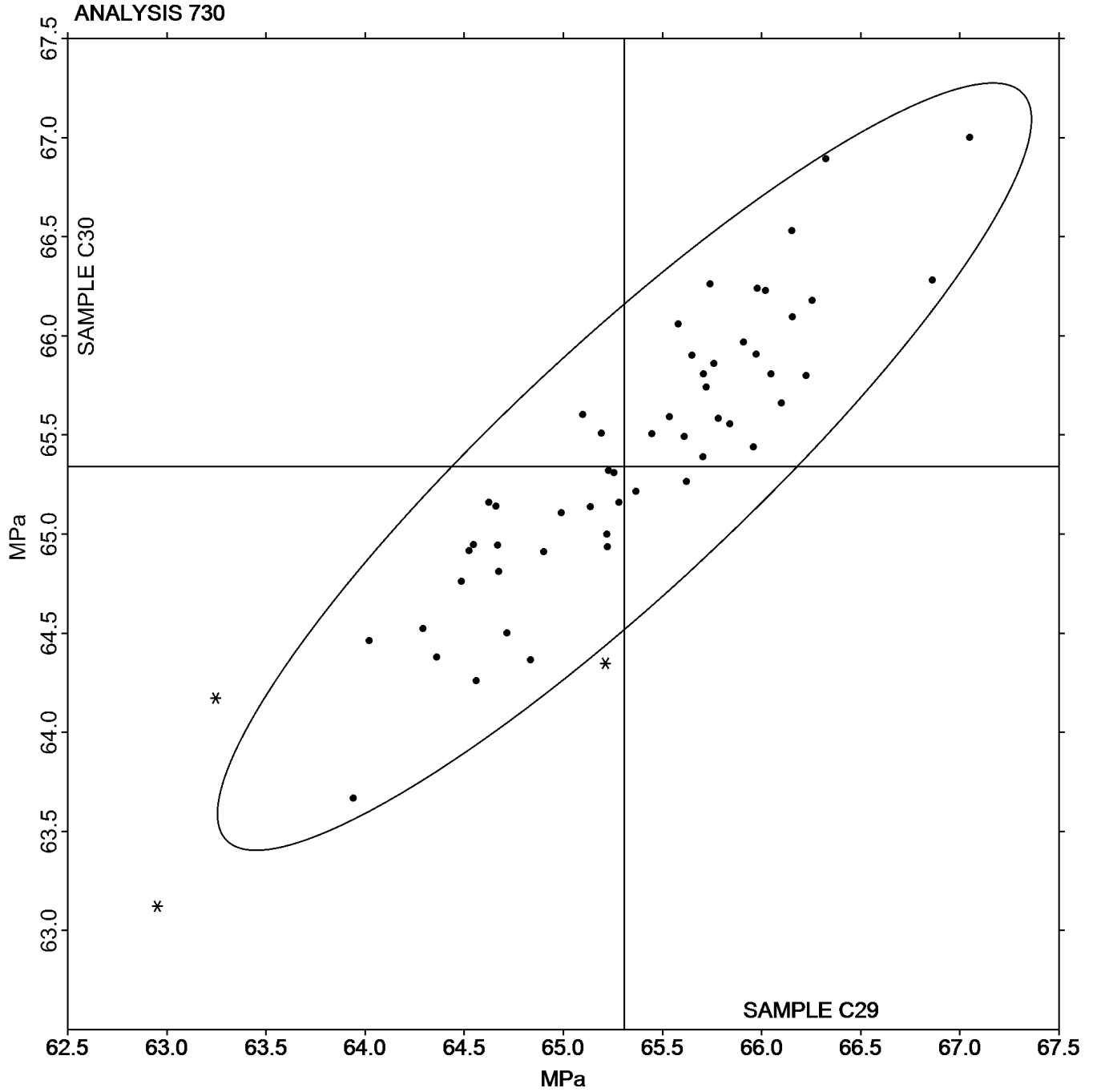
**Comments on assigned Data Flags for Test #730**

D2DEG3 (X) - Inconsistent in testing between samples, data for Sample C30 are high.

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

Plastics Interlaboratory Testing Program  
Analysis 730  
Tensile Stress at Yield - MPa

Grand Mean Sample C29: 65.308 MPa      Grand Mean Sample C30: 65.340 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 731**  
**Tensile Stress at Break - MPa**

WebCode	Data Flag	Sample C29			Sample C30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
26TR8F		47.04	-0.56	-0.56	49.00	1.46	1.48
4EHK3H		46.90	-0.70	-0.70	46.57	-0.96	-0.97
4VKVMA		48.50	0.90	0.90	48.34	0.81	0.82
6CNL46		48.37	0.77	0.77	47.27	-0.26	-0.27
74NTZ4		45.96	-1.63	-1.64	45.72	-1.81	-1.84
8FV466		45.70	-1.90	-1.90	46.52	-1.01	-1.03
943WTL		46.23	-1.37	-1.37	47.40	-0.13	-0.13
9BRWHK		47.47	-0.12	-0.12	47.36	-0.17	-0.17
AR3TW7		47.66	0.06	0.06	48.23	0.70	0.71
BU39TZ		48.66	1.06	1.06	48.22	0.69	0.70
D2DEG3	*	48.10	0.50	0.50	50.32	2.79	2.83
E4XQRR	*	45.15	-2.45	-2.46	45.46	-2.07	-2.10
E9FNLA		48.02	0.42	0.42	47.78	0.25	0.25
EFDBFU		47.89	0.29	0.29	47.84	0.31	0.31
ER4A4C		49.34	1.74	1.74	48.47	0.94	0.95
F4FYFM		48.63	1.04	1.04	49.46	1.93	1.95
FMLB43		47.18	-0.42	-0.42	47.40	-0.13	-0.13
FX99BV	*	50.40	2.80	2.81	47.88	0.35	0.35
G4X6GX		48.38	0.78	0.78	47.40	-0.13	-0.13
G9FPW6		47.30	-0.30	-0.30	46.45	-1.09	-1.10
G9W2B4		46.64	-0.96	-0.96	47.40	-0.14	-0.14
GHTM7V		48.46	0.86	0.86	48.35	0.81	0.82
GNVXYL		48.06	0.46	0.46	48.15	0.62	0.63
GNWTJD		47.36	-0.24	-0.24	47.97	0.44	0.44
HCKPVU		47.01	-0.59	-0.59	46.46	-1.07	-1.09
HMN69Y		47.60	0.01	0.01	47.77	0.24	0.24
HRXV8U		48.38	0.78	0.79	47.73	0.20	0.20
J2FW3U		48.41	0.81	0.81	48.32	0.79	0.80
KCBPQB		46.61	-0.99	-0.99	47.40	-0.13	-0.13
KUAPWP		48.17	0.57	0.57	48.18	0.65	0.66
LFFZRB		47.06	-0.54	-0.54	46.94	-0.59	-0.60
MAEQPH	*	47.52	-0.08	-0.08	45.08	-2.45	-2.48

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

WebCode	Data Flag	Sample C29			Sample C30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
MXL8AC		48.15	0.55	0.56	48.74	1.21	1.23
NDBY9H	X	47.54	-0.06	-0.06	52.91	5.37	5.45
P6HBGR		48.05	0.45	0.45	47.38	-0.15	-0.15
PMPDEY		46.04	-1.55	-1.56	45.77	-1.76	-1.78
PUPURQ		47.52	-0.08	-0.08	47.57	0.04	0.04
QMK47Z	X	43.76	-3.84	-3.85	44.27	-3.26	-3.31
RCQ3PG		46.66	-0.94	-0.94	47.96	0.43	0.43
REVNKU		47.23	-0.37	-0.37	47.98	0.45	0.46
RYMR4G		48.64	1.05	1.05	47.96	0.43	0.43
T2J3BZ		46.27	-1.32	-1.33	47.35	-0.18	-0.18
U4TNWQ		47.76	0.16	0.16	47.70	0.17	0.17
UL8L7J		47.92	0.32	0.32	47.82	0.29	0.29
VUYFGM		46.13	-1.47	-1.47	46.88	-0.66	-0.67
W4GGA2	X	66.86	19.26	19.30	66.58	19.05	19.31
WQFLFF		48.41	0.81	0.82	47.06	-0.48	-0.48
XBWMJD	*	48.46	0.87	0.87	45.77	-1.76	-1.79
XEU29N		48.29	0.69	0.69	47.92	0.39	0.39
XZPWF		47.11	-0.49	-0.49	46.74	-0.79	-0.80
Y3GYMQ		46.82	-0.78	-0.78	48.08	0.55	0.55
Y7H64H		47.72	0.12	0.12	47.98	0.45	0.45
YWBCQG		48.58	0.98	0.98	47.14	-0.39	-0.40

Summary Statistics	
Grand Means	47.598 MPa                      47.533 MPa
Std Dev Btwn Labs	0.998 MPa                              0.986 MPa
Statistics based on 50 of 53 reporting participants	

Sample C29: ABS/PC & Sample C30: ABS/PC

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

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

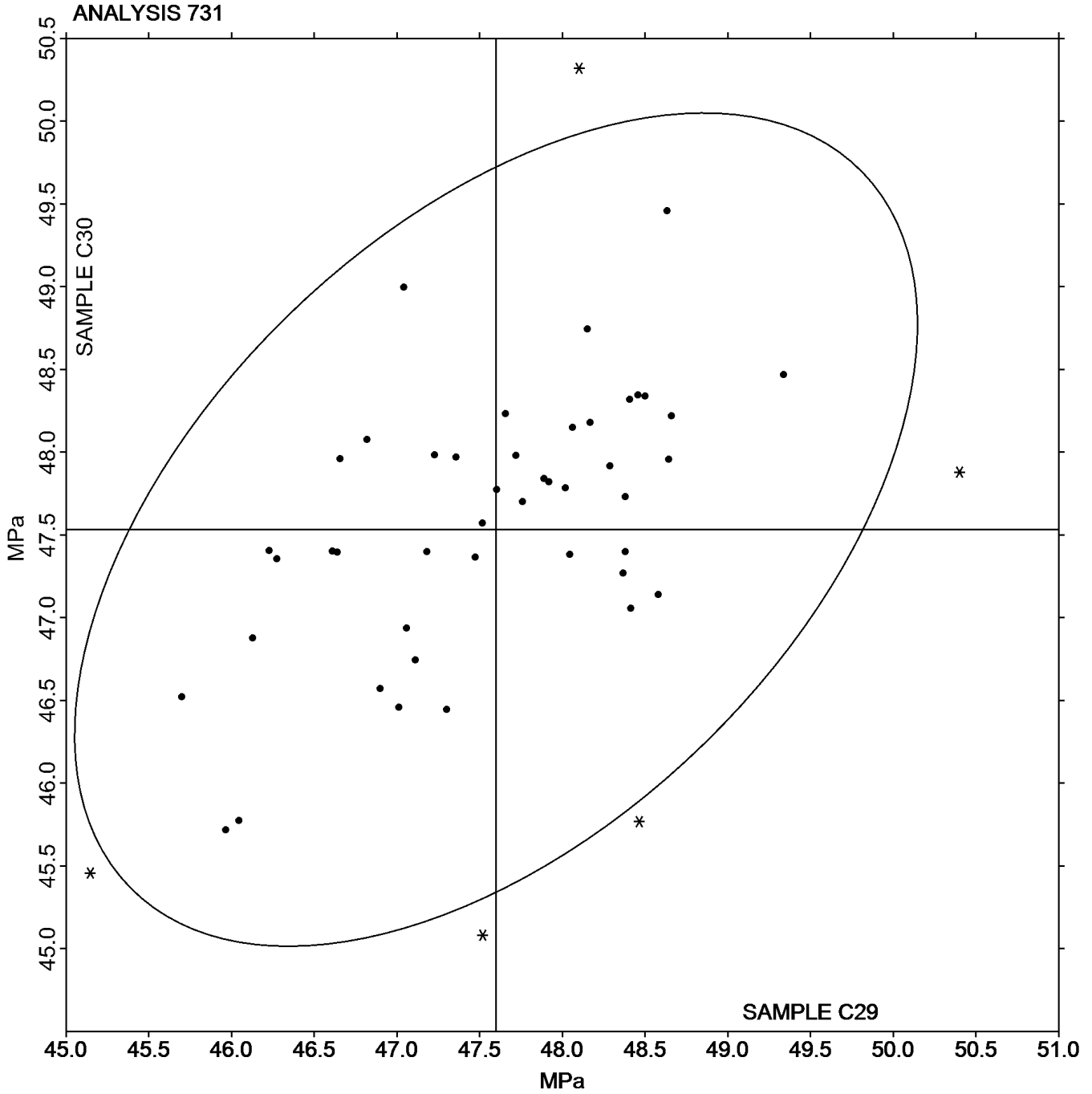
NDBY9H (X) - Data for Sample C30 are high. Also inconsistent in testing within Sample C30.

QMK47Z (X) - Data for both samples are low.

W4GGA2 (X) - Data for both samples are high.

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

Grand Mean Sample C29: 47.598 MPa      Grand Mean Sample C30: 47.533 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 732**  
**Percent Strain at Yield**

WebCode	Data Flag	Sample C29			Sample C30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
26TR8F		3.636	0.077	0.95	3.664	0.104	1.33
2BLP6K		3.506	-0.053	-0.65	3.516	-0.044	-0.56
4EHK3H		3.636	0.077	0.95	3.640	0.080	1.02
4VKVMA		3.474	-0.085	-1.04	3.508	-0.052	-0.66
6CNL46		3.546	-0.013	-0.16	3.546	-0.014	-0.18
74NTZ4	*	3.388	-0.171	-2.09	3.454	-0.106	-1.35
8FV466		3.594	0.035	0.43	3.600	0.040	0.51
943WTL		3.606	0.047	0.58	3.554	-0.006	-0.08
9BRWHK		3.644	0.085	1.05	3.676	0.116	1.48
AR3TW7		3.564	0.005	0.07	3.564	0.004	0.05
BGDG4P		3.578	0.019	0.24	3.620	0.060	0.77
BU39TZ		3.460	-0.099	-1.21	3.478	-0.082	-1.05
D2DEG3		3.612	0.053	0.65	3.604	0.044	0.56
E4XQRR		3.624	0.065	0.80	3.616	0.056	0.72
E9FNLA		3.666	0.107	1.32	3.650	0.090	1.15
EFDBFU		3.738	0.179	2.20	3.702	0.142	1.82
ER4A4C		3.428	-0.131	-1.60	3.398	-0.162	-2.07
F4FYFM		3.610	0.051	0.62	3.646	0.086	1.10
FMLB43		3.638	0.079	0.97	3.628	0.068	0.87
FX99BV		3.534	-0.025	-0.30	3.538	-0.022	-0.28
G4X6GX		3.592	0.033	0.41	3.580	0.020	0.26
G9FPW6	X	4.012	0.453	5.56	4.074	0.514	6.57
G9W2B4	X	3.642	0.083	1.02	3.780	0.220	2.81
GHTM7V		3.562	0.003	0.04	3.576	0.016	0.21
GNVXYL		3.559	0.000	0.00	3.561	0.001	0.02
HCKPVU		3.618	0.059	0.73	3.584	0.024	0.31
HMN69Y		3.474	-0.085	-1.04	3.462	-0.098	-1.25
HRXV8U		3.614	0.055	0.68	3.580	0.020	0.26
J2FW3U		3.712	0.153	1.88	3.732	0.172	2.20
KCBPQB		3.450	-0.109	-1.33	3.460	-0.100	-1.28
KUAPWP		3.451	-0.108	-1.32	3.447	-0.113	-1.44
LFFZRB		3.508	-0.051	-0.62	3.516	-0.044	-0.56

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

WebCode	Data Flag	Sample C29			Sample C30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
MAEQPH		3.646	0.087	1.07	3.644	0.084	1.08
MXL8AC		3.496	-0.063	-0.77	3.510	-0.050	-0.64
NDBY9H	*	3.464	-0.095	-1.16	3.541	-0.019	-0.24
NTCZCQ	X	3.020	-0.539	-6.61	3.000	-0.560	-7.16
P6HBGR	X	10.430	6.871	84.31	10.620	7.060	90.25
PMPDEY		3.509	-0.050	-0.61	3.507	-0.053	-0.68
PUPURQ		3.482	-0.077	-0.94	3.500	-0.060	-0.77
QMK47Z		3.485	-0.074	-0.91	3.508	-0.052	-0.66
RCQ3PG		3.426	-0.133	-1.63	3.420	-0.140	-1.79
REVNKU		3.514	-0.045	-0.55	3.498	-0.062	-0.79
RYMR4G		3.472	-0.087	-1.06	3.464	-0.096	-1.23
T2J3BZ		3.500	-0.059	-0.72	3.482	-0.078	-1.00
U4TNWQ		3.560	0.001	0.02	3.532	-0.028	-0.36
UL8L7J		3.500	-0.059	-0.72	3.500	-0.060	-0.77
VUYFGM		3.741	0.182	2.23	3.710	0.150	1.92
W4GGA2		3.606	0.047	0.58	3.576	0.016	0.21
XBWMJD		3.626	0.067	0.83	3.644	0.084	1.08
XEU29N		3.564	0.005	0.07	3.608	0.048	0.61
XFNRE4		3.620	0.061	0.75	3.620	0.060	0.77
XZPWF		3.590	0.031	0.38	3.560	0.000	0.00
Y3GYMQ		3.572	0.013	0.16	3.570	0.010	0.13
Y7H64H		3.500	-0.059	-0.72	3.460	-0.100	-1.28
YWBCQG		3.600	0.041	0.51	3.600	0.040	0.51

Summary Statistics			
Grand Means	3.5587	Percent	3.5599
			Percent
Std Dev Btwn Labs	0.0815	Percent	0.0782
			Percent
Statistics based on 51 of 55 reporting participants			

Sample C29: ABS/PC & Sample C30: ABS/PC

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

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

G9FPW6 (X) - Data for both samples are high. Also inconsistent in testing within Sample C29.

G9W2B4 (X) - Inconsistent in testing between samples, data for Sample C30 are high. Also inconsistent in testing within Sample C29.

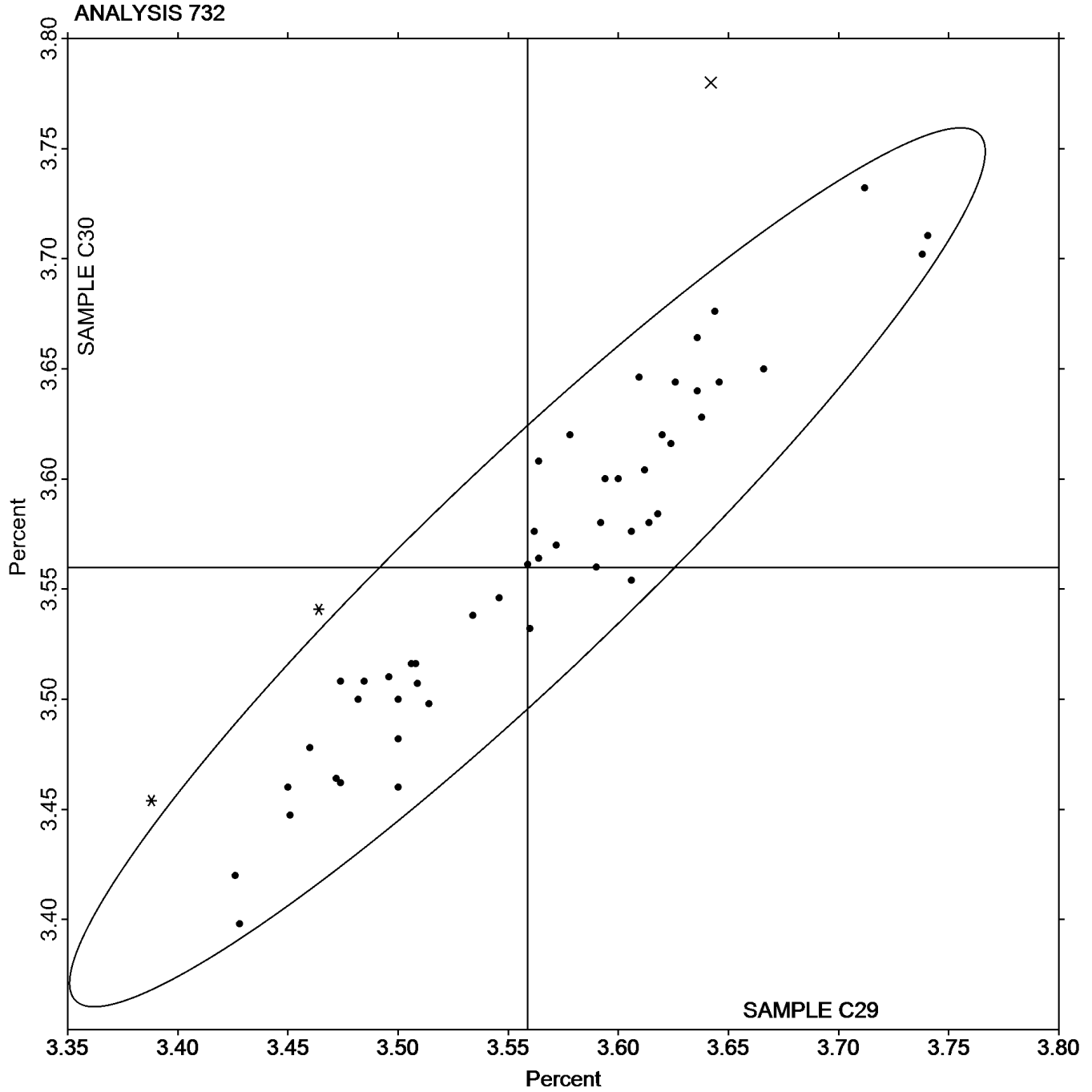
NTCZCQ (X) - Data for both samples are low.

P6HBGR (X) - Data for both samples are high. Also inconsistent in testing within both samples.

Plastics Interlaboratory Testing Program  
Analysis 732  
Percent Strain at Yield

Grand Mean Sample C29: 3.5587 Percent

Grand Mean Sample C30: 3.5599 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 734**  
**Modulus of Elasticity - MPa**

WebCode	Data Flag	Sample C29			Sample C30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
26TR8F		2,656	-137	-1.98	2,706	-87	-1.42
2BLP6K		2,818	25	0.37	2,884	92	1.51
4EHK3H		2,662	-131	-1.89	2,642	-150	-2.47
4VKVMA		2,879	87	1.25	2,899	107	1.75
6CNL46		2,747	-45	-0.66	2,739	-53	-0.88
74NTZ4		2,829	37	0.53	2,819	26	0.43
8FV466		2,721	-71	-1.03	2,680	-112	-1.84
943WTL		2,778	-15	-0.22	2,757	-35	-0.58
9BRWHK		2,733	-60	-0.86	2,739	-54	-0.88
AR3TW7		2,780	-13	-0.18	2,796	3	0.06
BGDG4P		2,804	11	0.16	2,785	-7	-0.11
BU39TZ		2,794	1	0.02	2,821	28	0.47
D2DEG3		2,807	14	0.21	2,802	9	0.15
E4XQRR		2,770	-22	-0.32	2,811	18	0.30
E9FNLA		2,777	-16	-0.23	2,758	-34	-0.56
EFDBFU		2,739	-54	-0.78	2,777	-15	-0.25
ER4A4C		2,886	94	1.36	2,851	58	0.95
F4FYFM		2,887	94	1.36	2,847	55	0.90
FMLB43		2,837	44	0.64	2,857	65	1.06
FX99BV	X	3,201	408	5.90	3,382	590	9.67
G4X6GX		2,796	4	0.06	2,788	-4	-0.07
G9FPW6		2,872	79	1.14	2,807	15	0.24
G9W2B4	X	2,890	97	1.41	3,030	237	3.89
GHTM7V		2,867	74	1.07	2,865	73	1.19
GNVXYL		2,772	-20	-0.29	2,783	-9	-0.15
HCKPVU		2,870	77	1.12	2,852	59	0.97
HMN69Y		2,860	67	0.97	2,838	46	0.75
KCBPQB		2,797	5	0.07	2,756	-36	-0.60
KUAPWP	X	4,420	1,628	23.51	4,635	1,843	30.21
LFFZRB		2,756	-37	-0.53	2,754	-39	-0.64
MAEQPH	X	2,417	-375	-5.42	2,127	-665	-10.90
MXL8AC		2,648	-145	-2.09	2,727	-65	-1.07

**Plastics Interlaboratory Testing Program**  
**Analysis 734**  
**Modulus of Elasticity - MPa**

WebCode	Data Flag	Sample C29			Sample C30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
NDBY9H		2,897	104	1.50	2,862	69	1.13
NTCZCQ		2,702	-91	-1.31	2,722	-70	-1.15
PMPDEY		2,869	76	1.10	2,844	52	0.85
PUPURQ		2,759	-34	-0.49	2,790	-2	-0.04
QMK47Z	X	3,013	220	3.18	3,054	261	4.29
RCQ3PG	X	3,124	331	4.79	3,145	353	5.79
REVNKU		2,882	89	1.29	2,870	78	1.27
T2J3BZ		2,738	-55	-0.79	2,788	-4	-0.07
U4TNWQ		2,765	-28	-0.40	2,723	-70	-1.14
UL8L7J		2,774	-19	-0.27	2,799	7	0.11
VUYFGM		2,724	-68	-0.98	2,800	8	0.12
W4GGA2		2,719	-74	-1.06	2,674	-118	-1.94
XBWMJD		2,837	44	0.64	2,845	53	0.87
XEU29N		2,776	-16	-0.23	2,809	17	0.27
XFNRE4		2,781	-12	-0.17	2,739	-53	-0.88
XZPWF	X	2,944	151	2.19	3,005	213	3.49
Y3GYMQ		2,800	8	0.11	2,767	-25	-0.41
Y7H64H		2,961	169	2.44	2,911	119	1.94
YWBCQG		2,748	-45	-0.64	2,780	-12	-0.20

Summary Statistics	
Grand Means	2,792.6 MPa
Std Dev Btwn Labs	69.2 MPa
	2,792.4 MPa
	61.0 MPa
Statistics based on 44 of 51 reporting participants	

Sample C29: ABS/PC & Sample C30: ABS/PC

**Plastics Interlaboratory Testing Program**  
**Analysis 734**  
**Modulus of Elasticity - MPa**

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

FX99BV (X) - Data for both samples are high. Also inconsistent in testing within Sample C30.

G9W2B4 (X) - Inconsistent in testing between samples, data for Sample C30 are high. Also inconsistent in testing within both samples.

KUAPWP (X) - Data for both samples are high. Also inconsistent in testing within both samples.

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

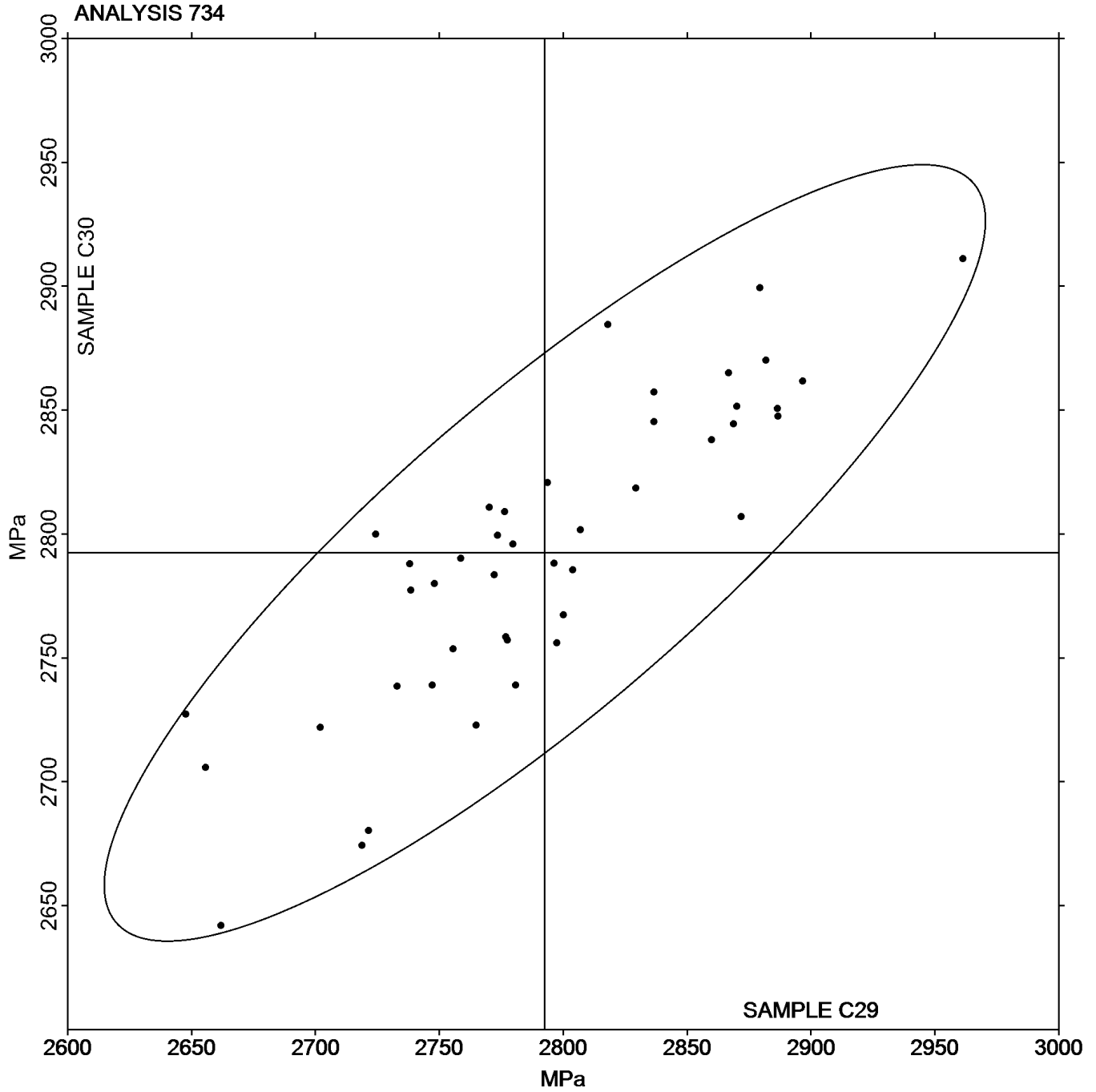
QMK47Z (X) - Data for both samples are high. Also inconsistent in testing within Sample C30.

RCQ3PG (X) - Data for both samples are high.

XZPWFP (X) - Inconsistent in testing between samples, data for Sample C30 are high.

Plastics Interlaboratory Testing Program  
Analysis 734  
Modulus of Elasticity - MPa

Grand Mean Sample C29: 2,792.55 MPa      Grand Mean Sample C30: 2,792.39 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 J29			Sample J30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2FKNMU	X	333.5	-91.3	-4.96	328.5	-96.4	-5.25
2GRLNK		409.2	-15.6	-0.85	411.6	-13.3	-0.73
2JGR7V		434.6	9.7	0.53	433.5	8.5	0.46
4FUUR4		430.9	6.1	0.33	427.4	2.5	0.13
4QMFQ8		418.7	-6.2	-0.34	416.8	-8.1	-0.44
4VKVMA		407.6	-17.3	-0.94	404.8	-20.2	-1.10
679FRD		439.1	14.2	0.77	434.9	10.0	0.54
6CNL46		427.2	2.3	0.13	428.5	3.5	0.19
6TKDAL		400.9	-23.9	-1.30	395.8	-29.2	-1.59
74NTZ4	*	479.6	54.7	2.97	476.9	51.9	2.83
7JHDLX		425.7	0.8	0.05	426.7	1.7	0.10
943WTL		424.0	-0.9	-0.05	439.0	14.1	0.77
9A3BEM		440.5	15.6	0.85	434.9	9.9	0.54
9BRWHK		438.2	13.3	0.72	439.1	14.1	0.77
9LWR4N		423.7	-1.2	-0.07	432.0	7.1	0.39
AHDX2W		453.6	28.7	1.56	445.4	20.5	1.11
BU39TZ		406.1	-18.8	-1.02	407.1	-17.9	-0.97
BVK6HE		414.6	-10.3	-0.56	414.4	-10.6	-0.57
C8ALKK		411.7	-13.2	-0.72	413.8	-11.2	-0.61
CFB23K		414.8	-10.0	-0.54	403.9	-21.0	-1.14
CJJ4B3		395.6	-29.3	-1.59	407.6	-17.3	-0.94
CKFJMY		409.0	-15.9	-0.86	403.6	-21.3	-1.16
D3RQB2		434.5	9.6	0.52	430.9	6.0	0.33
DF67WJ		424.5	-0.4	-0.02	428.9	4.0	0.22
DT7HVK		444.2	19.3	1.05	432.6	7.7	0.42
E9FNLA		442.1	17.2	0.94	442.4	17.5	0.95
FYJ9CV		395.4	-29.5	-1.60	394.6	-30.3	-1.65
G4X6GX		426.5	1.6	0.09	428.2	3.2	0.18
GNWTJD		420.4	-4.4	-0.24	430.9	5.9	0.32
H3XMT2		438.2	13.3	0.72	441.6	16.7	0.91
HNM4Q8		440.4	15.5	0.84	440.1	15.2	0.83
HRXV8U		441.4	16.5	0.90	452.5	27.5	1.50

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

WebCode	Data Flag	Sample J29			Sample J30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
J7R3FF		427.3	2.5	0.13	426.2	1.3	0.07
JB24VR		427.6	2.7	0.15	430.5	5.6	0.30
JCEQFQ		415.2	-9.6	-0.52	428.4	3.5	0.19
KBTUC		430.8	5.9	0.32	425.2	0.3	0.02
KDVR66		431.5	6.6	0.36	431.8	6.8	0.37
KKMK8Y	X	2.4	-422.5	-22.94	2.9	-422.1	-22.97
L98CKW		430.6	5.7	0.31	428.4	3.5	0.19
LFFZRB		410.1	-14.7	-0.80	408.9	-16.1	-0.87
LPYR7H		431.4	6.6	0.36	427.1	2.1	0.12
N4YVUE	*	396.5	-28.3	-1.54	382.1	-42.9	-2.33
NAF4PJ		427.4	2.5	0.14	432.9	8.0	0.44
P6HBGR		427.0	2.1	0.12	430.5	5.6	0.30
PX6DT8		420.0	-4.9	-0.27	420.7	-4.2	-0.23
Q26QEC		409.4	-15.5	-0.84	411.8	-13.1	-0.71
QGPEQ9		411.8	-13.0	-0.71	411.9	-13.0	-0.71
QZYB9J	X	394.5	-30.3	-1.65	383.8	-41.2	-2.24
R2YW8B		464.9	40.1	2.17	461.5	36.6	1.99
RG9M4P		422.7	-2.2	-0.12	423.6	-1.3	-0.07
RYMR4G		448.0	23.1	1.25	447.0	22.1	1.20
TDALNR		398.5	-26.3	-1.43	400.0	-24.9	-1.36
TFL9P6		425.1	0.3	0.02	425.6	0.7	0.04
TJNAP3	X	221.8	-203.1	-11.03	221.6	-203.3	-11.07
U2N2G2	*	368.8	-56.1	-3.05	367.6	-57.3	-3.12
UBLNUK		433.1	8.3	0.45	420.1	-4.8	-0.26
UTAPVH		429.1	4.2	0.23	430.3	5.4	0.29
VUCWRF		462.1	37.2	2.02	458.0	33.1	1.80
X9H8NY		400.7	-24.2	-1.31	402.3	-22.7	-1.23
XQWM7U		430.0	5.1	0.28	429.0	4.1	0.22
Y3GYMQ		428.3	3.5	0.19	428.0	3.0	0.17
Y9GMVH		426.2	1.4	0.08	426.4	1.4	0.08
ZN4GGE	*	410.5	-14.4	-0.78	426.4	1.5	0.08
ZTC34Q		434.1	9.2	0.50	433.7	8.7	0.47

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

**Summary Statistics**

Grand Means

424.85 ksi

424.93 ksi

Std Dev Btwn Labs

18.42 ksi

18.37 ksi

Statistics based on 60 of 64 reporting participants

Sample J29: ABS/PC &amp; Sample J30: ABS/PC

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

2FKNMU (X) - Data for both samples are low.

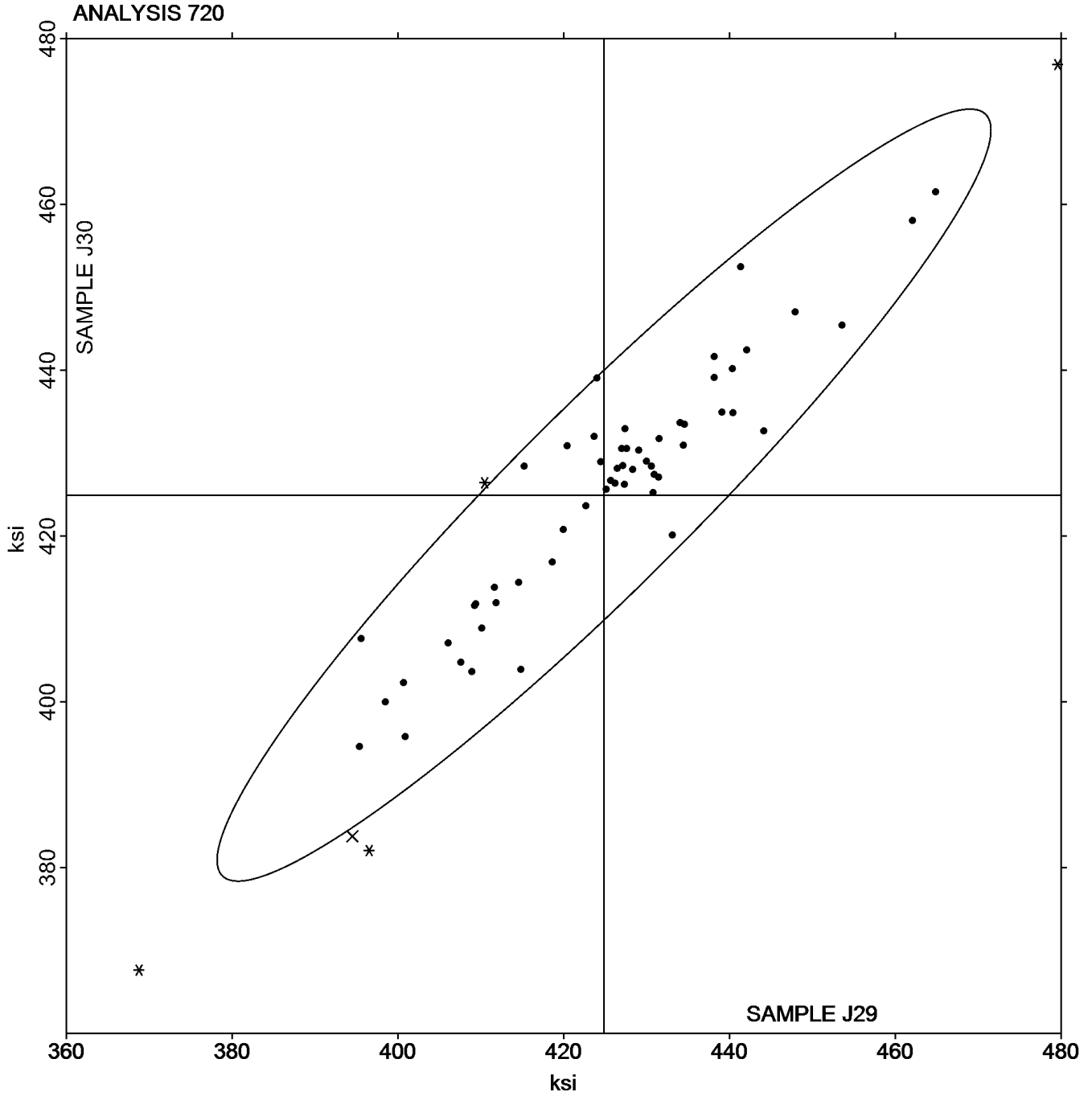
KKMK8Y (X) - Data for both samples are low.

QZYB9J (X) - Lab tested under wrong test method.

TJNAP3 (X) - Data for both samples are low.

Plastics Interlaboratory Testing Program  
Analysis 720  
Flexural Modulus- ksi

Grand Mean Sample J29: 424.85 ksi    Grand Mean Sample J30: 424.93 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 J29			Sample J30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2FKNMU		13,522	-871	-1.83	13,457	-920	-1.91
4FUUR4		13,941	-452	-0.95	13,938	-440	-0.91
4QMFQ8		13,947	-446	-0.94	13,980	-398	-0.82
4VKVMA		13,950	-443	-0.93	13,886	-491	-1.02
6CNL46		14,537	145	0.30	14,560	183	0.38
6TKDAL		13,690	-702	-1.48	13,625	-752	-1.56
74NTZ4	*	15,824	1,431	3.01	15,719	1,342	2.78
7JHDLX		14,577	184	0.39	14,637	260	0.54
943WTL		14,889	497	1.04	14,605	227	0.47
9A3BEM		14,034	-358	-0.75	13,821	-556	-1.15
9BRWHK		15,076	684	1.44	15,077	699	1.45
9LWR4N	*	14,103	-289	-0.61	14,392	15	0.03
AHDX2W		14,666	273	0.57	14,399	22	0.04
BU39TZ		13,970	-422	-0.89	13,924	-454	-0.94
BVK6HE		14,119	-274	-0.58	14,045	-333	-0.69
C8ALKK		14,525	132	0.28	14,592	215	0.44
CFB23K		13,809	-583	-1.23	13,615	-762	-1.58
CJJ4B3		13,910	-483	-1.02	14,114	-264	-0.55
CKFJMY		14,162	-231	-0.49	14,065	-312	-0.65
D3RQB2		14,377	-16	-0.03	14,262	-116	-0.24
DT7HVK		14,720	327	0.69	14,798	421	0.87
E9FNLA		14,661	268	0.56	14,580	202	0.42
FYJ9CV		14,270	-123	-0.26	14,264	-113	-0.24
G4X6GX		14,583	190	0.40	14,583	206	0.43
H3XMT2		14,120	-273	-0.57	14,140	-237	-0.49
HNM4Q8		15,193	801	1.68	15,201	823	1.71
HRXV8U	*	14,767	375	0.79	15,036	658	1.36
J7R3FF		14,757	365	0.77	14,763	386	0.80
JB24VR		14,217	-176	-0.37	14,375	-3	-0.01
JCEQFQ		14,506	113	0.24	14,598	220	0.46
KBTTUC		13,782	-611	-1.28	13,723	-654	-1.36
KKMK8Y	X	581	-13,812	-29.04	675	-13,702	-28.39

**Plastics Interlaboratory Testing Program  
Analysis 721  
Flexural Stress at 5% Strain - psi**

WebCode	Data Flag	Sample J29			Sample J30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
L98CKW		14,180	-213	-0.45	14,180	-197	-0.41
LFFZRB		14,078	-315	-0.66	14,095	-283	-0.59
N4YVUE		14,787	394	0.83	14,772	394	0.82
NAF4PJ		13,714	-678	-1.43	13,731	-646	-1.34
P6HBGR	X	635	-13,757	-28.93	634	-13,744	-28.48
PX6DT8		14,668	275	0.58	14,708	331	0.68
QGPEQ9		14,442	49	0.10	14,429	52	0.11
QZYB9J	X	5	-14,388	-30.25	5	-14,373	-29.78
RG9M4P		14,718	326	0.69	14,452	75	0.15
RYMR4G		15,115	722	1.52	15,212	835	1.73
TDALNR		13,802	-590	-1.24	13,778	-600	-1.24
TFL9P6		14,431	38	0.08	14,382	5	0.01
TJNAP3	X	7,116	-7,276	-15.30	7,139	-7,239	-15.00
U2N2G2		14,721	329	0.69	14,725	348	0.72
UBLNUK		14,724	332	0.70	14,542	164	0.34
VUCWRF		14,913	521	1.10	14,852	474	0.98
X9H8NY		13,541	-852	-1.79	13,587	-790	-1.64
XQWM7U		14,779	386	0.81	14,844	466	0.97
Y3GYMQ		14,481	89	0.19	14,442	64	0.13
Y9GMVH		14,178	-214	-0.45	14,255	-122	-0.25
ZN4GGE	X	14,051	-341	-0.72	14,556	179	0.37
ZTC34Q		14,761	368	0.77	14,738	361	0.75

Summary Statistics	
Grand Means	14,392.6 psi                      14,377.5 psi
Stnd Dev Btwn Labs	475.6 psi                                      482.6 psi
Statistics based on 49 of 54 reporting participants	

Sample J29: ABS/PC & Sample J30: ABS/PC

**Plastics Interlaboratory Testing Program**  
**Analysis 721**  
**Flexural Stress at 5% Strain - psi**

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

KKMK8Y (X) - Data for both samples are low.

P6HBGR (X) - Data for both samples are low.

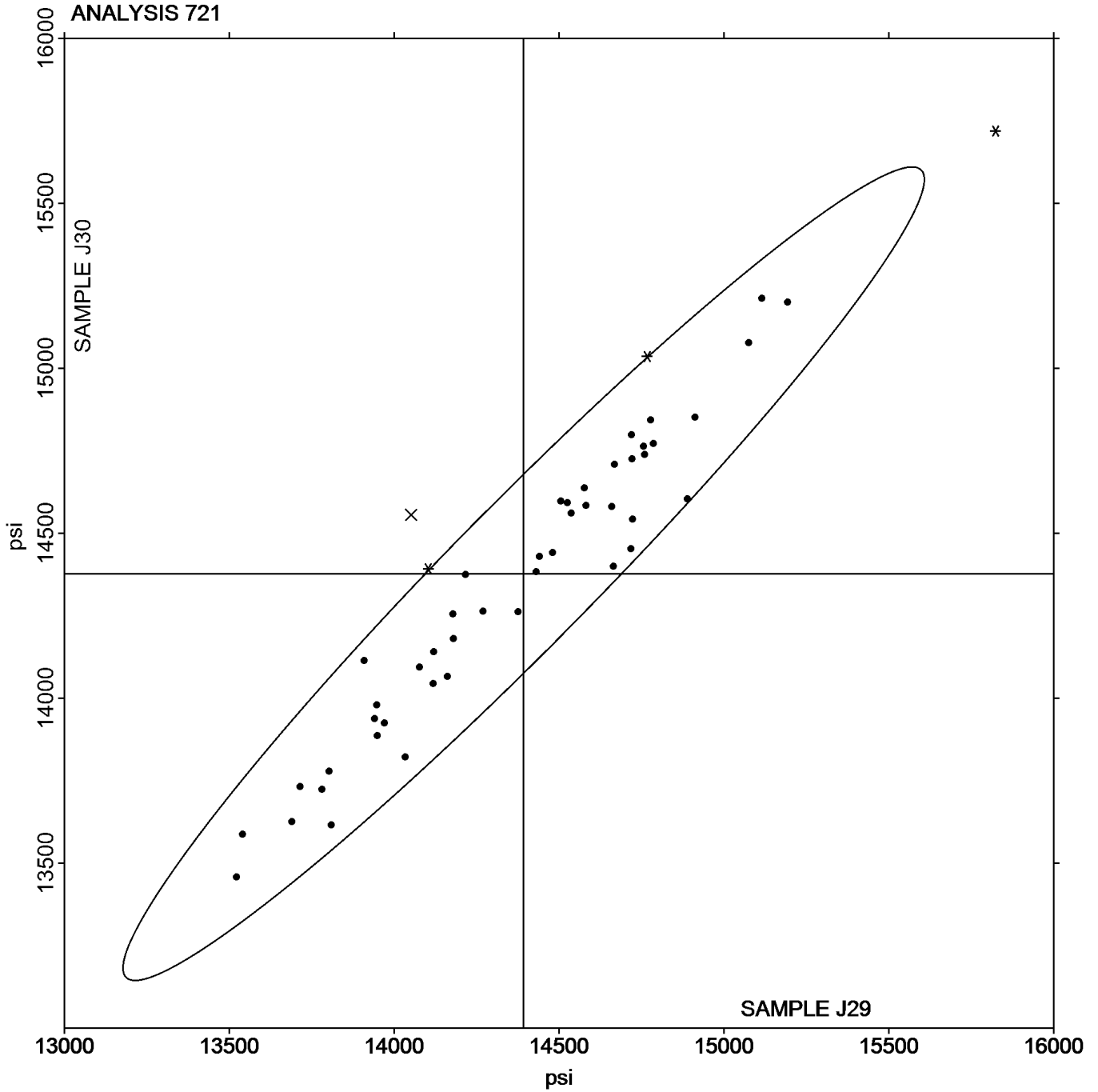
QZYB9J (X) - Data for both samples are low.

TJNAP3 (X) - Data for both samples are low.

ZN4GGE (X) - Inconsistent in testing between samples.

Plastics Interlaboratory Testing Program  
Analysis 721  
Flexural Stress at 5% Strain - psi

Grand Mean Sample J29: 14,392.59 psi      Grand Mean Sample J30: 14,377.50 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 J29			Sample J30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2FKNMU		13,624	-711	-1.70	13,593	-754	-1.82
2GRLNK		13,986	-348	-0.83	13,990	-357	-0.86
2JGR7V		14,312	-22	-0.05	14,350	3	0.01
4FUUR4		13,964	-370	-0.88	13,959	-388	-0.94
4QMFQ8		13,966	-368	-0.88	13,989	-358	-0.87
679FRD	X	12,143	-2,191	-5.23	11,830	-2,517	-6.09
6CNL46		14,543	209	0.50	14,564	217	0.53
6TKDAL		13,690	-644	-1.54	13,625	-722	-1.75
943WTL		14,890	556	1.33	14,646	299	0.72
9A3BEM		14,036	-298	-0.71	13,862	-485	-1.17
9BRWHK		15,085	751	1.80	15,088	741	1.79
9LWR4N		14,114	-220	-0.53	14,403	56	0.14
BU39TZ		13,979	-355	-0.85	13,927	-420	-1.02
BVK6HE		14,168	-166	-0.40	14,112	-235	-0.57
C8ALKK		14,534	200	0.48	14,599	252	0.61
CFB23K		13,864	-470	-1.12	13,669	-678	-1.64
CJJ4B3		13,924	-410	-0.98	14,114	-233	-0.56
CKFJMY		14,172	-162	-0.39	14,088	-259	-0.63
D3RQB2		14,404	70	0.17	14,289	-58	-0.14
DF67WJ		14,373	39	0.09	14,570	223	0.54
DT7HVK		14,599	265	0.63	14,830	483	1.17
E9FNLA		14,632	298	0.71	14,595	248	0.60
FYJ9CV		14,284	-50	-0.12	14,338	-9	-0.02
G4X6GX		14,571	237	0.57	14,621	274	0.66
GNWTJD		14,137	-197	-0.47	14,376	29	0.07
H3XMT2		14,140	-194	-0.46	14,200	-147	-0.36
J7R3FF		14,770	436	1.04	14,789	442	1.07
JB24VR		14,220	-114	-0.27	14,379	32	0.08
JCEQFQ		14,514	180	0.43	14,603	256	0.62
KBTTUC		13,782	-552	-1.32	13,723	-624	-1.51
KDVR66		15,074	740	1.77	15,044	697	1.69
KKMK8Y		13,816	-518	-1.24	14,207	-140	-0.34

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

WebCode	Data Flag	Sample J29			Sample J30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
L98CKW		14,200	-134	-0.32	14,220	-127	-0.31
LFFZRB		14,069	-265	-0.63	14,090	-257	-0.62
LPYR7H		14,736	402	0.96	14,649	302	0.73
N4YVUE		14,823	489	1.17	14,828	481	1.16
NAF4PJ		13,728	-606	-1.45	13,742	-605	-1.46
P6HBGR	X	16,307	1,973	4.71	16,310	1,963	4.75
PX6DT8		14,696	362	0.86	14,735	388	0.94
Q26QEC		14,080	-254	-0.61	14,120	-227	-0.55
QZYB9J	X	13,152	-1,182	-2.82	12,975	-1,372	-3.32
R2YW8B		14,588	254	0.61	14,251	-96	-0.23
RG9M4P		14,763	429	1.02	14,523	176	0.43
RYMR4G		15,150	816	1.95	15,277	930	2.25
TDALNR		13,837	-497	-1.19	13,810	-537	-1.30
TFL9P6		14,438	104	0.25	14,395	48	0.12
TJNAP3	X	7,131	-7,203	-17.21	7,174	-7,173	-17.35
U2N2G2		14,742	408	0.98	14,755	408	0.99
UBLNUK	*	14,877	543	1.30	14,484	137	0.33
VUCWRF		14,922	588	1.40	14,861	514	1.24
X9H8NY		13,541	-793	-1.90	13,587	-760	-1.84
Y3GYMQ		14,511	177	0.42	14,492	145	0.35
ZN4GGE	*	14,068	-266	-0.64	14,594	247	0.60
ZTC34Q		14,765	431	1.03	14,796	449	1.08

Summary Statistics	
Grand Means	14,334.0 psi
Std Dev Btwn Labs	418.5 psi
	14,347.0 psi
	413.5 psi
Statistics based on 50 of 54 reporting participants	

Sample J29: ABS/PC & Sample J30: ABS/PC

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

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

679FRD (X) - Data for both samples are low.

P6HBGR (X) - Data for both samples are high.

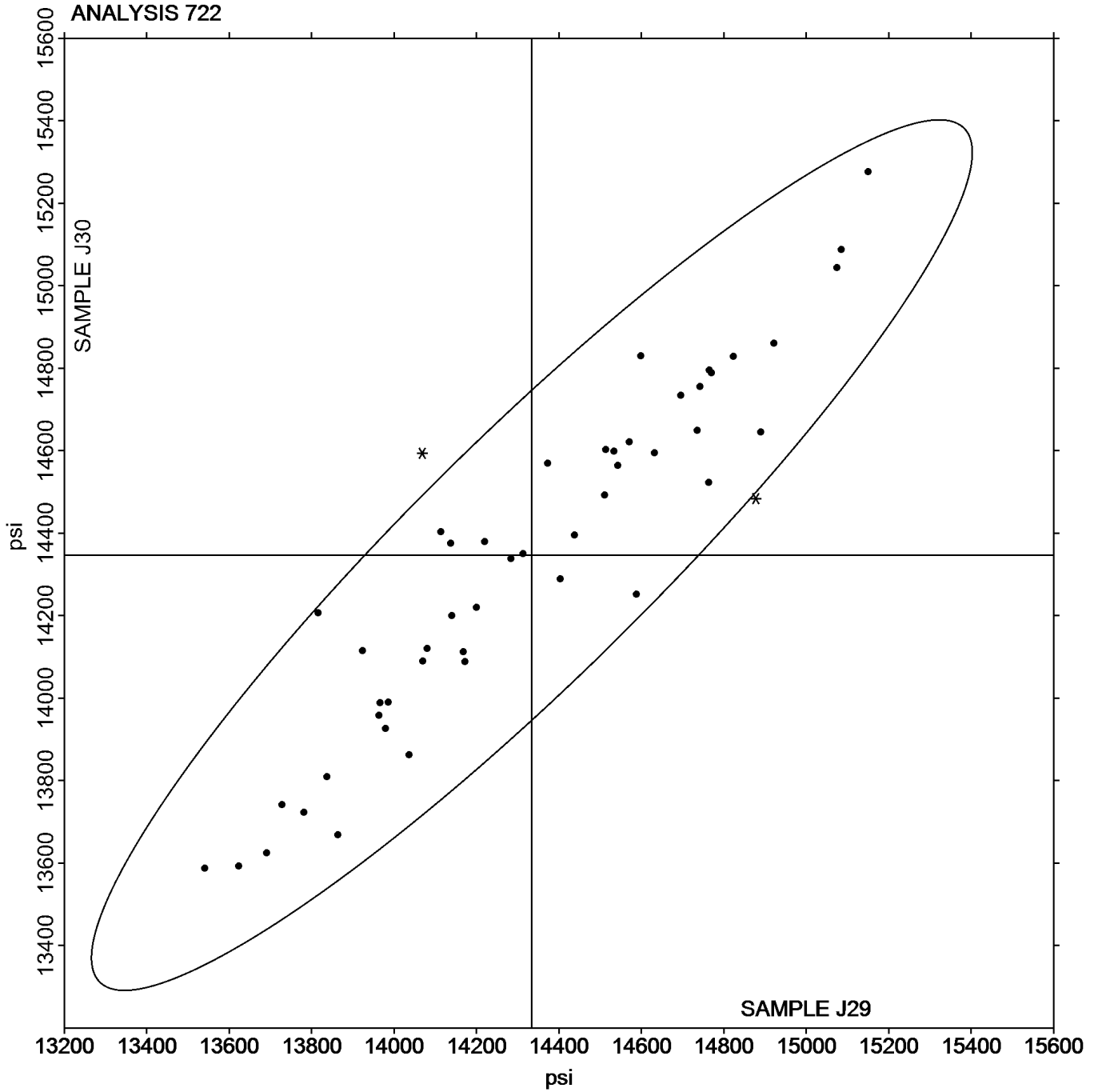
QZYB9J (X) - Data for both samples are low.

TJNAP3 (X) - Data for both samples are low.

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

Grand Mean Sample J29: 14,334.02 psi

Grand Mean Sample J30: 14,347.04 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 K29			Sample K30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
26TR8F		2,925	87	0.86	2,909	80	0.81
2AQ83H		2,810	-27	-0.27	2,764	-65	-0.66
2BLP6K		2,810	-27	-0.27	2,806	-23	-0.24
4VKVMA		2,854	17	0.16	2,853	24	0.24
6CNL46		2,856	19	0.19	2,866	37	0.38
74NTZ4		3,059	222	2.17	3,044	216	2.18
79ZRF4	X	5,850	3,012	29.45	5,877	3,048	30.84
8FV466		2,721	-116	-1.13	2,770	-58	-0.59
943WTL	*	2,938	100	0.98	2,852	23	0.24
9BRWHK		2,867	30	0.30	2,863	34	0.35
AR3TW7	*	2,574	-263	-2.57	2,577	-251	-2.54
BGDG4P		2,818	-19	-0.19	2,806	-23	-0.23
BU39TZ		2,756	-81	-0.80	2,759	-70	-0.71
D2DEG3		2,953	116	1.13	2,951	122	1.24
E4XQRR		2,893	56	0.55	2,880	51	0.52
E9FNLA		2,816	-21	-0.20	2,803	-26	-0.26
EFDBFU		2,932	95	0.93	2,933	105	1.06
ER4A4C		2,821	-16	-0.15	2,816	-13	-0.13
F4FYFM		2,979	142	1.39	2,921	92	0.93
FMLB43		2,814	-23	-0.22	2,810	-18	-0.19
FMQT22		3,022	185	1.81	3,006	178	1.80
G4X6GX		2,871	34	0.33	2,873	44	0.45
G9FPW6		2,973	136	1.33	2,985	157	1.58
G9W2B4		2,946	109	1.07	2,956	128	1.29
GHTM7V		2,823	-14	-0.14	2,820	-9	-0.09
GNVXYL		2,839	2	0.02	2,820	-9	-0.09
GNWTJD		2,939	102	1.00	2,935	106	1.07
HRXV8U		2,811	-26	-0.25	2,803	-25	-0.26
J2FW3U		2,748	-89	-0.87	2,747	-82	-0.83
KCBPQB		2,769	-68	-0.67	2,738	-91	-0.92
KUAPWP		2,822	-15	-0.15	2,812	-17	-0.17
KXDDFL		2,828	-9	-0.09	2,864	35	0.35

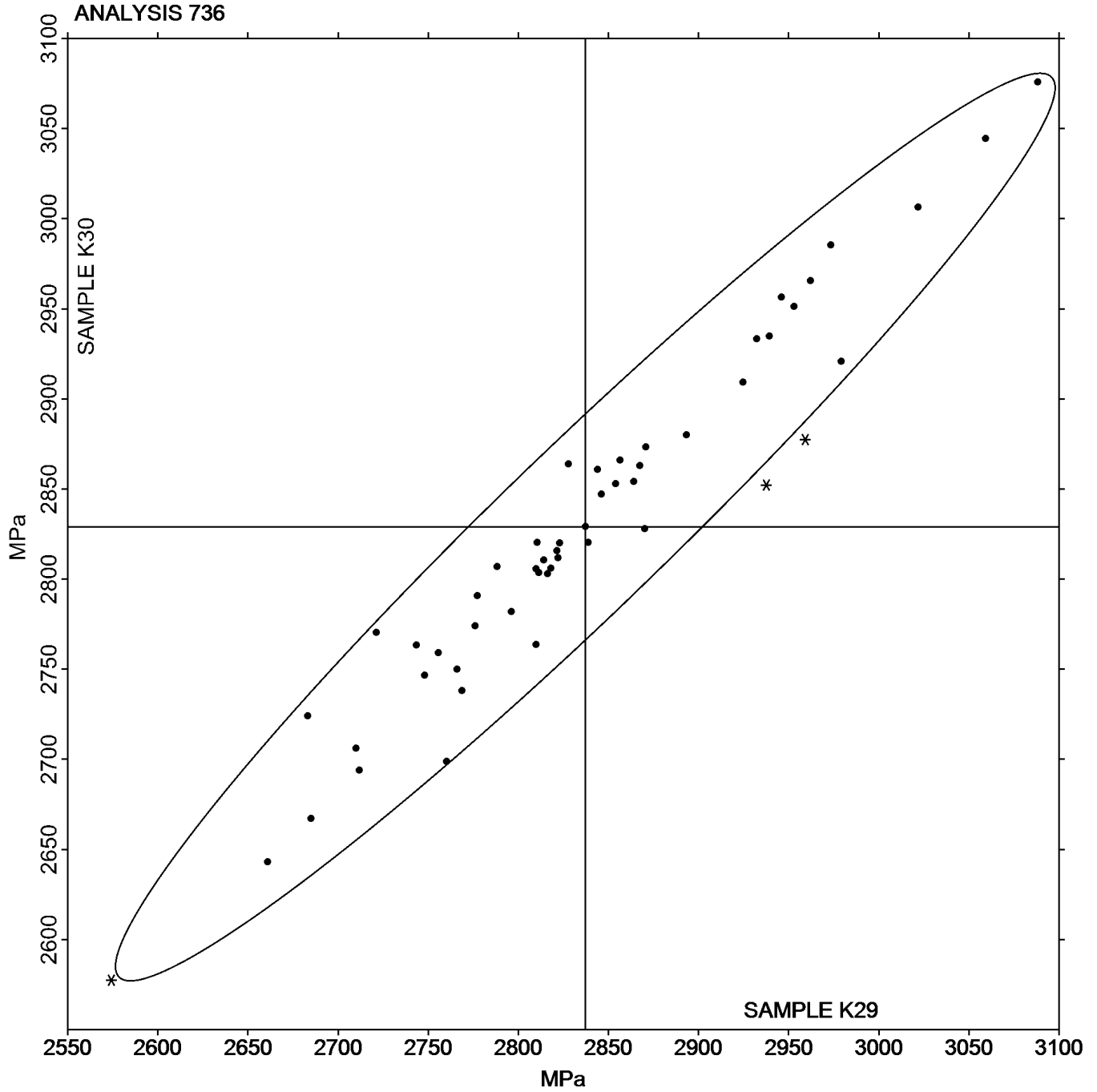


**Plastics Interlaboratory Testing Program**  
**Analysis 736**  
**Flexural Modulus - MPa**

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Plastics Interlaboratory Testing Program  
Analysis 736  
Flexural Modulus - MPa

Grand Mean Sample K29: 2,837.13 MPa      Grand Mean Sample K30: 2,828.88 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 K29			Sample K30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
26TR8F		93.44	2.39	0.91	93.56	2.54	1.02
2AQ83H		90.92	-0.14	-0.05	90.90	-0.12	-0.05
2BLP6K		91.52	0.46	0.18	91.68	0.66	0.26
4VKVMA		89.77	-1.28	-0.49	89.75	-1.27	-0.51
6CNL46		89.84	-1.22	-0.46	90.39	-0.63	-0.25
74NTZ4		96.16	5.10	1.94	95.94	4.92	1.99
8FV466		90.80	-0.26	-0.10	90.60	-0.42	-0.17
943WTL		92.14	1.09	0.41	91.65	0.63	0.26
9BRWHK		91.77	0.71	0.27	91.56	0.54	0.22
AR3TW7		88.62	-2.43	-0.93	88.53	-2.49	-1.01
BGDG4P		89.55	-1.50	-0.57	89.55	-1.47	-0.59
BU39TZ		90.00	-1.06	-0.40	90.08	-0.94	-0.38
D2DEG3		93.04	1.98	0.76	93.18	2.16	0.87
E4XQRR		90.26	-0.79	-0.30	90.14	-0.88	-0.36
E9FNLA		92.47	1.42	0.54	92.46	1.44	0.58
EFDBFU		90.78	-0.28	-0.10	91.58	0.56	0.23
ER4A4C		88.98	-2.08	-0.79	88.87	-2.15	-0.87
F4FYFM		94.06	3.00	1.14	92.82	1.80	0.73
FMLB43		91.68	0.63	0.24	91.78	0.76	0.31
FMQT22		93.47	2.41	0.92	93.63	2.61	1.06
G4X6GX		89.68	-1.38	-0.52	89.93	-1.09	-0.44
G9FPW6		91.91	0.86	0.33	92.28	1.26	0.51
G9W2B4		92.36	1.31	0.50	92.40	1.38	0.56
GHTM7V		90.65	-0.41	-0.16	90.80	-0.22	-0.09
GNVXYL		93.12	2.06	0.79	93.11	2.09	0.84
HRXV8U		95.06	4.01	1.52	94.95	3.93	1.59
J2FW3U		89.92	-1.13	-0.43	89.77	-1.25	-0.50
KCBPQB	*	87.22	-3.84	-1.46	86.38	-4.65	-1.88
KUAPWP		89.19	-1.86	-0.71	89.30	-1.73	-0.70
KXDDFL		89.05	-2.01	-0.76	89.88	-1.14	-0.46
LFFZRB		88.25	-2.80	-1.07	88.91	-2.11	-0.85
MAEQPH		92.50	1.45	0.55	92.77	1.75	0.71

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

WebCode	Data Flag	Sample K29			Sample K30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
MXL8AC	*	93.99	2.93	1.12	92.49	1.47	0.59
NDBY9H		89.21	-1.85	-0.70	88.13	-2.89	-1.17
NTCZCQ	*	97.60	6.54	2.49	96.06	5.04	2.04
P6HBGR	X	2.26	-88.80	-33.80	2.25	-88.77	-35.87
REVNKU		88.95	-2.10	-0.80	89.40	-1.63	-0.66
RFUQBY		88.74	-2.32	-0.88	88.34	-2.68	-1.08
RHBF8G		93.59	2.53	0.96	93.72	2.70	1.09
RYMR4G		94.89	3.83	1.46	95.11	4.08	1.65
T2J3BZ	X	88.21	-2.85	-1.08	85.59	-5.43	-2.19
UL8L7J		88.46	-2.60	-0.99	88.96	-2.06	-0.83
VUYFGM		87.19	-3.86	-1.47	87.43	-3.59	-1.45
W4GGA2		87.17	-3.88	-1.48	88.20	-2.82	-1.14
WMCV7F		92.13	1.08	0.41	92.33	1.30	0.53
XBWMJD		92.38	1.32	0.50	91.88	0.86	0.35
Y3GYMQ		89.56	-1.49	-0.57	89.23	-1.80	-0.73
Y7H64H	*	83.82	-7.23	-2.75	84.02	-7.01	-2.83
YWBCQG		93.72	2.66	1.01	93.59	2.56	1.04

Summary Statistics	
Grand Means	91.056 MPa      91.022 MPa
Std Dev Btwn Labs	2.627 MPa      2.475 MPa
Statistics based on 47 of 49 reporting participants	

Sample K29: ABS/PC & Sample K30: ABS/PC

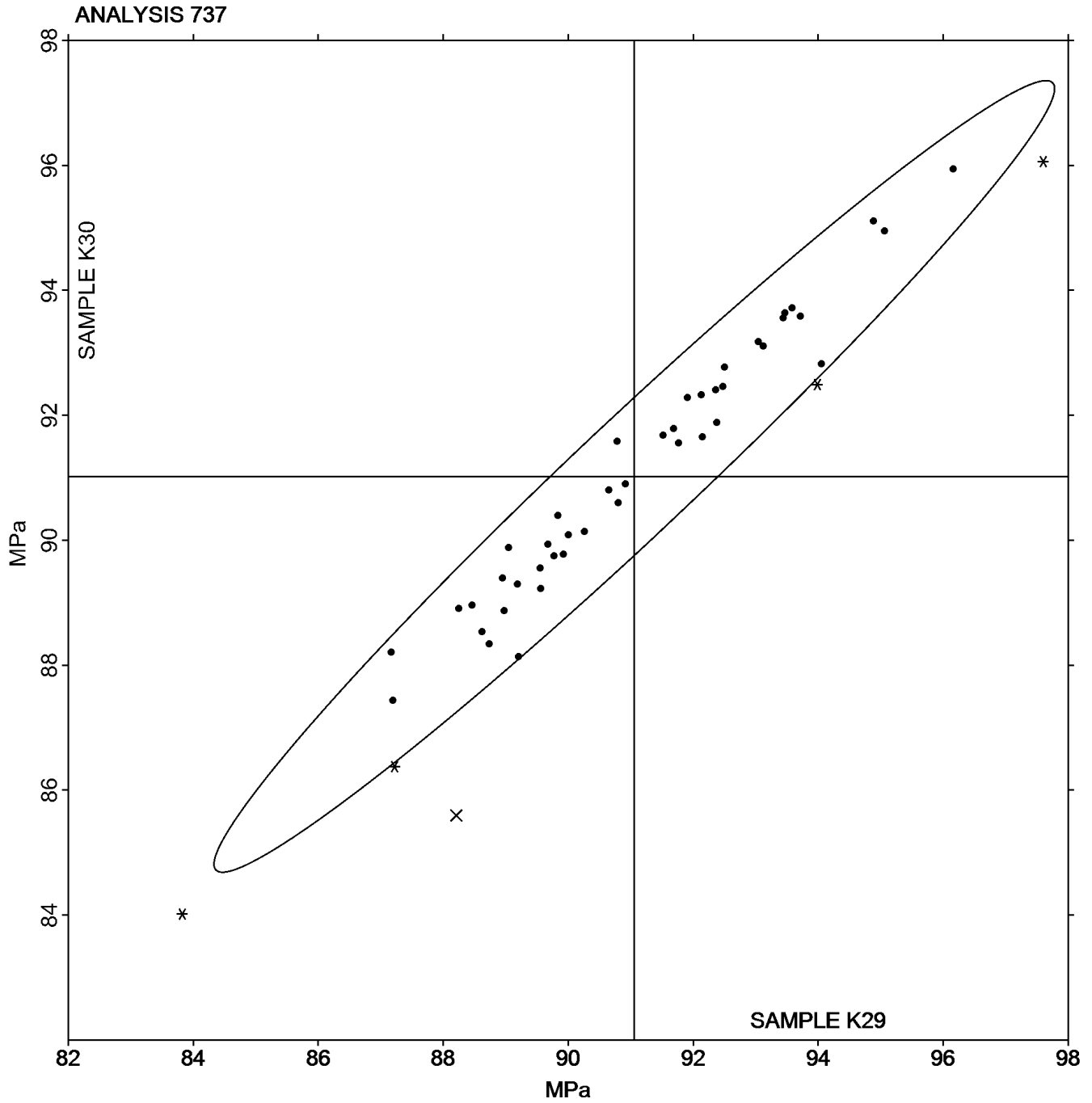
**Comments on assigned Data Flags for Test #737**

P6HBGR (X) - Data for both samples are low.

T2J3BZ (X) - Inconsistent in testing between samples and inconsistent in testing within Sample K30.

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

Grand Mean Sample K29: 91.056 MPa      Grand Mean Sample K30: 91.022 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 K29			Sample K30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2AQ83H		100.07	0.69	0.31	99.77	0.33	0.15
6CNL46		98.81	-0.56	-0.25	99.36	-0.07	-0.03
79ZRF4	X	135.88	36.50	16.27	136.47	37.03	17.14
8FV466		99.16	-0.21	-0.10	100.04	0.60	0.28
943WTL		102.00	2.63	1.17	101.16	1.72	0.80
9BRWHK		101.96	2.59	1.15	101.59	2.15	0.99
AR3TW7		97.41	-1.96	-0.87	97.37	-2.07	-0.96
BGDG4P		98.28	-1.09	-0.49	98.32	-1.11	-0.51
BU39TZ		98.94	-0.43	-0.19	99.28	-0.16	-0.07
D2DEG3		101.04	1.67	0.74	101.50	2.06	0.95
E4XQRR	*	92.89	-6.48	-2.89	92.70	-6.74	-3.12
E9FNLA		101.27	1.89	0.84	100.90	1.46	0.68
EFDBFU		101.17	1.80	0.80	101.01	1.57	0.73
ER4A4C		97.38	-2.00	-0.89	97.55	-1.89	-0.87
F4FYFM		103.69	4.31	1.92	102.67	3.23	1.50
FMLB43		101.11	1.73	0.77	101.37	1.94	0.90
FMQT22		100.58	1.20	0.54	101.04	1.60	0.74
G9FPW6		97.89	-1.48	-0.66	98.07	-1.37	-0.63
G9W2B4		98.35	-1.02	-0.45	98.28	-1.15	-0.53
GHTM7V		98.14	-1.23	-0.55	98.37	-1.07	-0.50
GNVXYL		102.98	3.61	1.61	102.93	3.49	1.61
GNWTJD		98.76	-0.62	-0.27	99.19	-0.24	-0.11
J2FW3U		98.60	-0.78	-0.35	98.59	-0.84	-0.39
KCBPQB		96.24	-3.13	-1.40	95.45	-3.99	-1.85
KXDDFL		97.18	-2.19	-0.98	97.98	-1.45	-0.67
LFFZRB		97.97	-1.41	-0.63	99.09	-0.34	-0.16
MAEQPH		101.28	1.90	0.85	101.85	2.42	1.12
MXL8AC		100.85	1.47	0.66	99.69	0.25	0.12
P6HBGR		99.78	0.41	0.18	99.81	0.38	0.17
REVNKU		97.84	-1.53	-0.68	99.02	-0.42	-0.19
RFUQBY		97.96	-1.41	-0.63	97.36	-2.07	-0.96
RYMR4G		102.15	2.78	1.24	102.11	2.67	1.24

**Plastics Interlaboratory Testing Program**  
**Analysis 738**  
**Flexural Stress at Yield - MPa**

WebCode	Data Flag	Sample K29			Sample K30		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
T2J3BZ	X	95.87	-3.51	-1.56	91.44	-8.00	-3.70
UL8L7J		97.38	-1.99	-0.89	97.40	-2.04	-0.94
W4GGA2	X	87.17	-12.20	-5.44	88.20	-11.23	-5.20
WMCV7F		100.40	1.02	0.46	100.98	1.54	0.71
XBWMJD		100.86	1.49	0.66	100.93	1.49	0.69
Y3GYMQ		98.43	-0.94	-0.42	98.11	-1.32	-0.61
Y7H64H		95.76	-3.61	-1.61	96.32	-3.12	-1.44
YWBCQG		102.26	2.88	1.28	102.00	2.57	1.19

**Summary Statistics**

## Grand Means

99.373 MPa

99.437 MPa

## Std Dev Btwn Labs

2.244 MPa

2.161 MPa

Statistics based on 37 of 40 reporting participants

Sample K29: ABS/PC &amp; Sample K30: ABS/PC

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

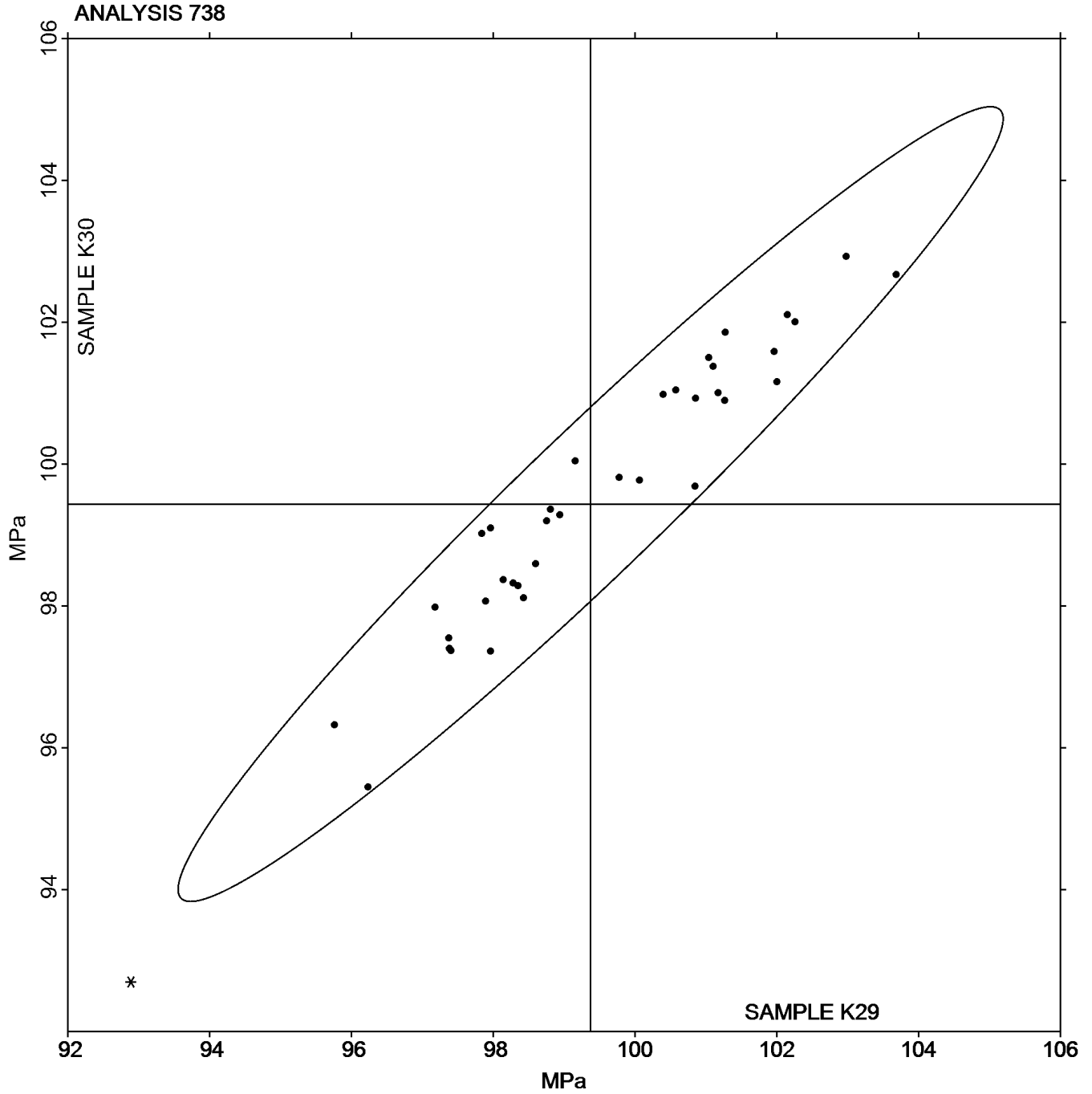
79ZRF4 (X) - Data for both samples are high.

T2J3BZ (X) - Inconsistent in testing between samples, data for Sample K30 are low. Also inconsistent in testing within both samples.

W4GGA2 (X) - Data for both samples are low.

Plastics Interlaboratory Testing Program  
Analysis 738  
Flexural Stress at Yield - MPa

Grand Mean Sample K29: 99.373 MPa      Grand Mean Sample K30: 99.437 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 790**  
**Notched Izod Impact - ft.lbf/in**

WebCode	Data Flag	Sample S29			Sample S30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2APATM		2.72	-0.13	-0.35	2.90	0.02	0.06	BA
2FKNMU		2.96	0.10	0.27	2.94	0.07	0.17	CE
2GRLNK		2.66	-0.19	-0.51	2.68	-0.20	-0.48	TM
2JGR7V		2.81	-0.04	-0.12	3.03	0.16	0.38	WZ
4FUUR4		2.83	-0.02	-0.06	2.77	-0.11	-0.26	TO
4XNP27		2.75	-0.11	-0.28	2.90	0.03	0.06	TM
679FRD		3.35	0.49	1.29	2.89	0.01	0.03	TO
74NTZ4		2.92	0.06	0.17	2.88	0.00	0.01	CE
7NEZG8		3.37	0.51	1.33	3.15	0.27	0.66	TM
943WTL		2.99	0.14	0.36	2.89	0.01	0.02	CE
9BRWHK		2.74	-0.12	-0.30	2.54	-0.34	-0.82	TM
9LWR4N		2.69	-0.16	-0.43	3.09	0.22	0.52	TM
B4GKDJ		3.10	0.24	0.64	3.06	0.18	0.44	TO
BU39TZ		2.59	-0.27	-0.69	2.66	-0.22	-0.52	TY
C7EX4B		3.12	0.27	0.70	3.05	0.17	0.41	TM
C89NAP		2.96	0.11	0.28	3.18	0.30	0.74	TM
C8ALKK	*	2.76	-0.10	-0.26	3.48	0.60	1.46	WZ
CFB23K		3.58	0.72	1.89	3.35	0.47	1.14	TO
CKEMC4		2.71	-0.15	-0.39	2.94	0.06	0.15	TO
CKFJMY		2.80	-0.06	-0.16	2.82	-0.06	-0.14	TO
DF67WJ		2.60	-0.26	-0.68	2.68	-0.20	-0.49	TM
DT7HVK		2.70	-0.15	-0.40	3.13	0.25	0.61	TO
E4XQRR		2.22	-0.64	-1.68	2.25	-0.63	-1.52	TO
E9FNLA		2.58	-0.28	-0.73	2.62	-0.25	-0.61	WZ
EFDBFU	*	3.51	0.65	1.70	2.96	0.08	0.20	CS
G4X6GX		2.44	-0.42	-1.09	2.45	-0.42	-1.02	CE
GCPK3V	*	3.48	0.62	1.63	3.98	1.11	2.68	TO
GNWTJD		2.63	-0.23	-0.61	2.66	-0.22	-0.52	CE
HMN69Y		2.94	0.08	0.21	2.61	-0.26	-0.63	WZ
HRXV8U		2.62	-0.23	-0.61	2.61	-0.26	-0.64	CE
J7R3FF		2.86	0.01	0.02	2.65	-0.23	-0.56	TO
JB24VR	*	1.85	-1.01	-2.64	1.98	-0.89	-2.16	TO

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

WebCode	Data Flag	Sample S29			Sample S30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
JCEQFQ		2.24	-0.62	-1.63	2.27	-0.61	-1.47	XX
JV34LB		3.21	0.35	0.93	3.30	0.42	1.02	XX
KDVR66		2.43	-0.43	-1.11	2.73	-0.14	-0.35	XX
L6QUGU	*	2.91	0.05	0.13	2.31	-0.57	-1.38	TO
LFFZRB		2.57	-0.29	-0.75	2.48	-0.40	-0.96	TO
LPYR7H		2.99	0.14	0.36	3.15	0.27	0.65	TO
NAF4PJ		2.77	-0.09	-0.22	2.88	0.00	0.01	CE
P6HBGR		2.88	0.02	0.05	2.63	-0.24	-0.59	TO
PJGT6Y		2.57	-0.29	-0.75	2.46	-0.41	-1.00	TM
Q26QEC		3.17	0.31	0.82	3.15	0.27	0.66	TM
QGPEQ9		3.08	0.22	0.57	3.06	0.19	0.45	TM
QZYB9J	X	0.55	-2.31	-6.04	0.54	-2.34	-5.66	TM
REVNKU		2.97	0.11	0.29	2.93	0.06	0.14	TO
RFUQBY		2.09	-0.76	-2.00	2.08	-0.80	-1.93	DY
RYMR4G		2.22	-0.64	-1.68	2.21	-0.66	-1.60	TO
TDALNR		3.35	0.50	1.30	3.46	0.59	1.42	XX
TJNAP3	*	3.60	0.74	1.94	4.02	1.15	2.78	TO
UBLNUK		2.68	-0.18	-0.46	2.45	-0.43	-1.03	TM
VUCWRF		3.75	0.89	2.34	3.64	0.76	1.84	CE
X9H8NY		2.67	-0.18	-0.48	2.77	-0.11	-0.26	WZ
XBWMJD		2.99	0.13	0.34	3.34	0.46	1.12	CE
XFNRE4		2.90	0.04	0.11	2.97	0.10	0.24	TO
XGZ9RG		3.11	0.25	0.65	3.08	0.20	0.48	TO
XQWM7U		3.25	0.39	1.03	3.07	0.20	0.48	XX
YWBCQG		2.76	-0.10	-0.26	2.84	-0.04	-0.09	CE



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

Summary Statistics	
Grand Means	
2.858 ft.lbf/in	2.877 ft.lbf/in
Stnd Dev Btwn Labs	
0.383 ft.lbf/in	0.413 ft.lbf/in
Statistics based on 56 of 57 reporting participants	

Sample S29: HIPS & Sample S30: HIPS

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

QZYB9J (X) - Data for both samples are low.

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

(BA) - Baldwin

(CE) - Ceast

(CS) - CSI

(DY) - Dynatup

(TM) - TMI

(TO) - Tinius Olsen

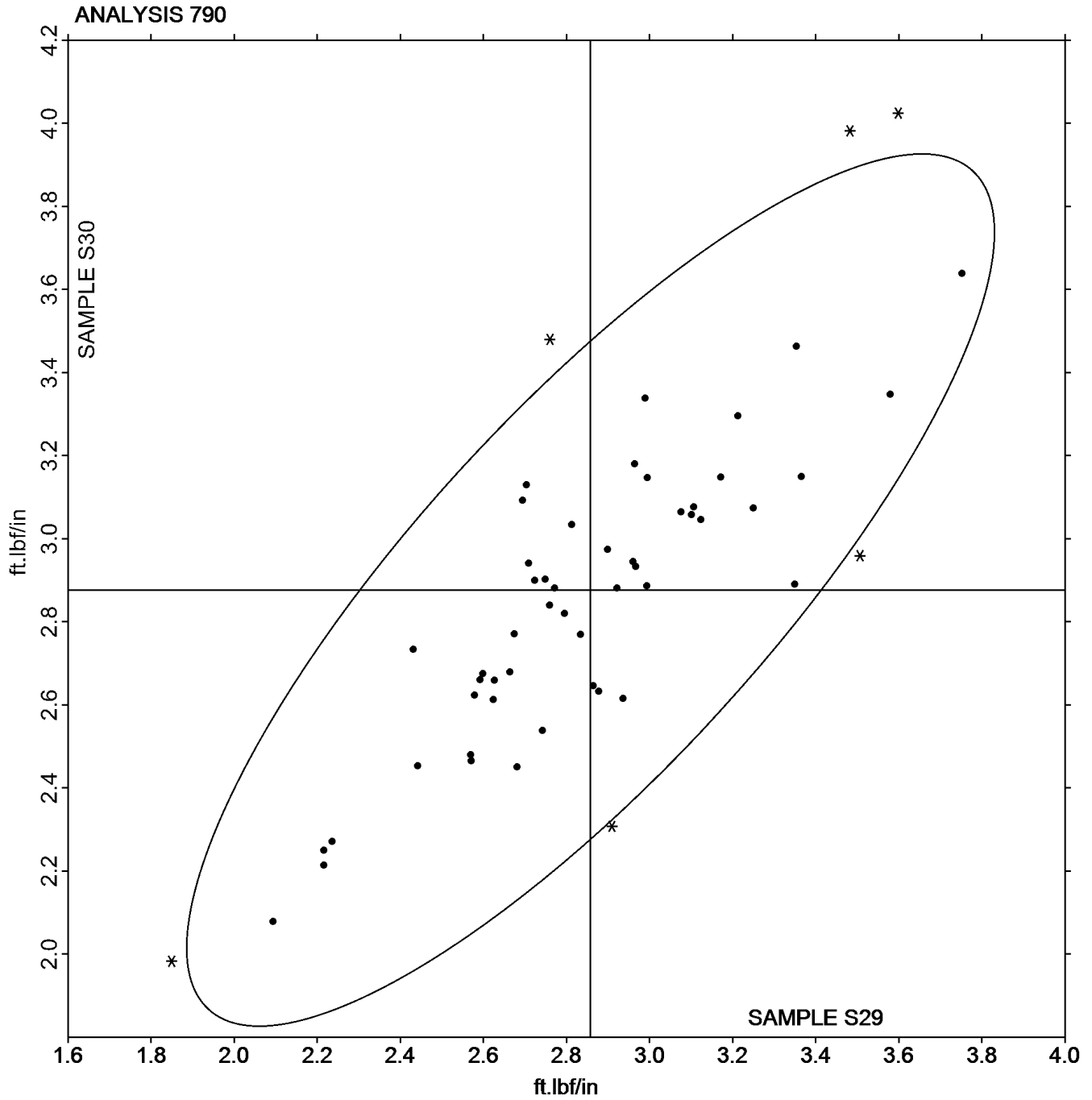
(TY) - Toyoseiki

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample S29: 2.8577 ft.lbf/in      Grand Mean Sample S30: 2.8766 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.

**Plastics Interlaboratory Testing Program**  
**Analysis 791**  
**Notched Izod Impact - kJ/m<sup>2</sup>**

WebCode	Data Flag	Sample Z29			Sample Z30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
BU39TZ		21.28000	-0.52631	-0.76	21.68400	-0.40565	-0.67	XX
D2DEG3		20.82200	-0.98431	-1.43	21.54400	-0.54565	-0.90	IN
E9FNLA		21.96400	0.15769	0.23	22.30800	0.21835	0.36	WZ
ER4A4C		22.39600	0.58969	0.85	22.01200	-0.07765	-0.13	WZ
F4FYFM		22.14000	0.33369	0.48	22.40000	0.31035	0.51	TO
FX99BV		23.00000	1.19369	1.73	22.88000	0.79035	1.30	XX
G9FPW6		22.19600	0.38969	0.56	22.25400	0.16435	0.27	XX
G9W2B4		22.34800	0.54169	0.79	22.37600	0.28635	0.47	XX
GHTM7V		22.28400	0.47769	0.69	22.34600	0.25635	0.42	TO
GNVXYL		21.66000	-0.14631	-0.21	22.28000	0.19035	0.31	CE
HRXV8U		21.62000	-0.18631	-0.27	22.38000	0.29035	0.48	CE
J2FVEB	*	20.24000	-1.56631	-2.27	20.30000	-1.78965	-2.94	CE
J2FW3U		21.19800	-0.60831	-0.88	21.74400	-0.34565	-0.57	TO
KUAPWP		21.82060	0.01429	0.02	21.79940	-0.29025	-0.48	CE
NDBY9H		21.87000	0.06369	0.09	22.25200	0.16235	0.27	XX
P6HBGR		21.28000	-0.52631	-0.76	21.88000	-0.20965	-0.34	TO
QJWAVL		21.08000	-0.72631	-1.05	21.80000	-0.28965	-0.48	XX
RHBF8G		22.76000	0.95369	1.38	22.62400	0.53435	0.88	CE
RYMR4G		22.08000	0.27369	0.40	22.28000	0.19035	0.31	TO
T2J3BZ	X	21.10400	-0.70231	-1.02	20.20000	-1.88965	-3.11	XX
UL8L7J		21.12000	-0.68631	-0.99	21.62000	-0.46965	-0.77	WZ
UWEJKT		22.56000	0.75369	1.09	23.02000	0.93035	1.53	TM
W388LB		20.68000	-1.12631	-1.63	20.78000	-1.30965	-2.15	XX
W4GGA2		21.63660	-0.16971	-0.25	21.81820	-0.27145	-0.45	CE
XE8KPM		21.93420	0.12789	0.19	22.69020	0.60055	0.99	TM
Y3GYMQ		22.28460	0.47829	0.69	22.55300	0.46335	0.76	TM
Y7H64H		22.71000	0.90369	1.31	22.70600	0.61635	1.01	XX

**Plastics Interlaboratory Testing Program**  
**Analysis 791**  
**Notched Izod Impact - kJ/m<sup>2</sup>**

**Summary Statistics**

## Grand Means

21.806308 kJ/m<sup>2</sup>22.089646 kJ/m<sup>2</sup>

## Std Dev Btwn Labs

0.689902 kJ/m<sup>2</sup>0.608111 kJ/m<sup>2</sup>

Statistics based on 26 of 27 reporting participants

Sample Z29: HIPS &amp; Sample Z30: HIPS

**Comments on assigned Data Flags for Test #791**

T2J3BZ (X) - Inconsistent in testing between samples, data for Sample Z30 are low.

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

(CE) - Ceast

(IN) - Instron

(TM) - TMI

(TO) - Tinius Olsen

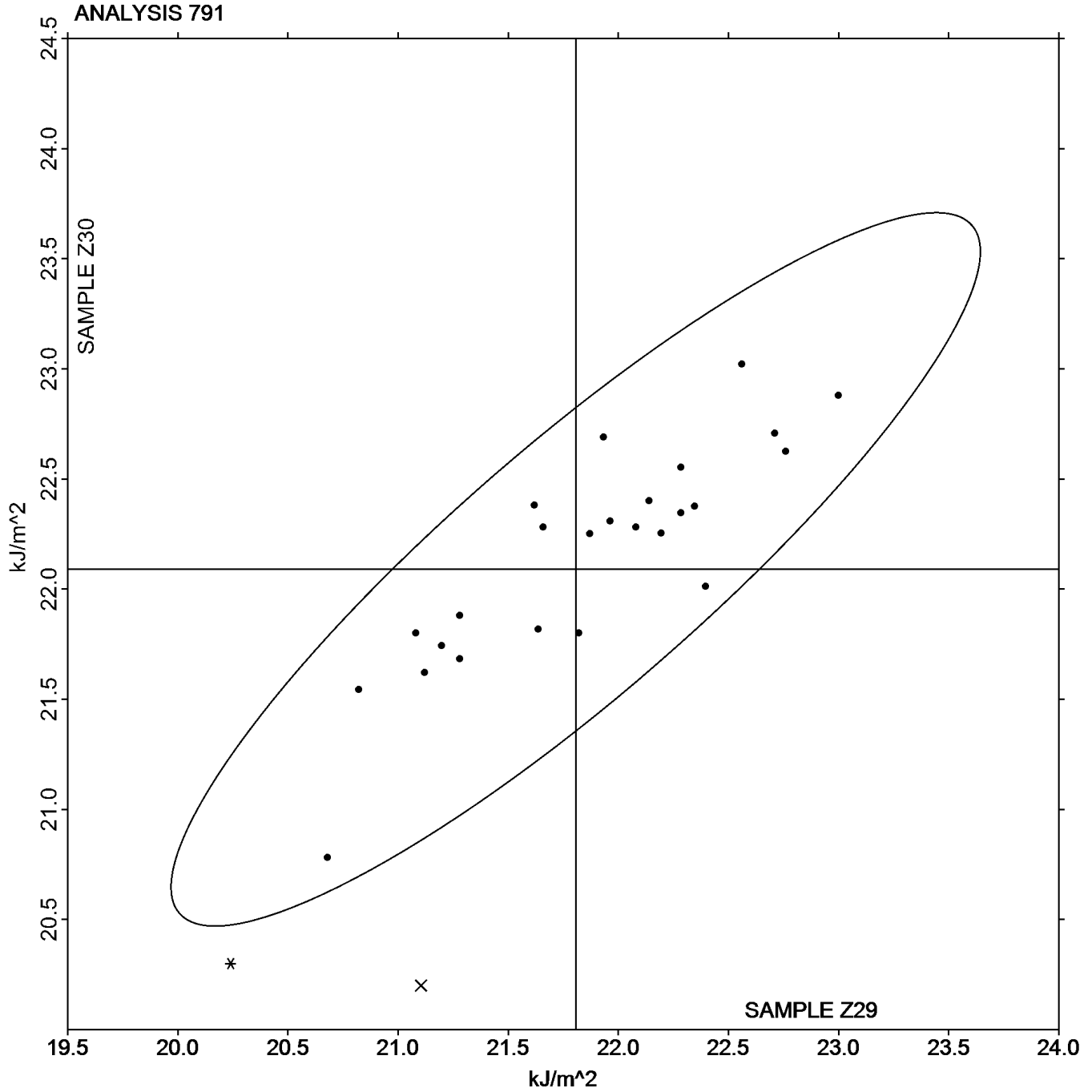
(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 791  
Notched Izod Impact -  $\text{kJ/m}^2$

Grand Mean Sample Z29: 21.806  $\text{kJ/m}^2$

Grand Mean Sample Z30: 22.090  $\text{kJ/m}^2$



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 792

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

WebCode	Data Flag	Sample M29			Sample M30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
26TR8F		16.78	-1.62	-0.61	11.38	0.79	0.47	WZ
2BLP6K	X	29.67	11.27	4.28	16.66	6.07	3.63	CE
4EHK3H		16.50	-1.90	-0.72	10.99	0.40	0.24	CE
4VKVMA		24.34	5.94	2.25	12.44	1.85	1.10	CE
4XNP27		15.17	-3.23	-1.23	10.31	-0.28	-0.17	TM
7EPCL6		20.93	2.53	0.96	10.13	-0.47	-0.28	WZ
8FV466		18.00	-0.40	-0.15	9.24	-1.35	-0.81	XX
AR3TW7		16.63	-1.77	-0.67	12.83	2.23	1.33	WZ
BGDG4P		17.29	-1.11	-0.42	9.08	-1.51	-0.90	TM
BU39TZ		18.65	0.25	0.09	9.88	-0.71	-0.43	TY
C89NAP		14.67	-3.73	-1.41	9.89	-0.71	-0.42	TM
C8ALKK		18.16	-0.24	-0.09	13.84	3.24	1.94	TM
DT7HVK		23.96	5.56	2.11	10.88	0.29	0.17	XX
E9FNLA		16.81	-1.59	-0.61	10.46	-0.13	-0.08	WZ
ER4A4C		19.98	1.58	0.60	12.97	2.38	1.42	WZ
FMLB43		18.52	0.12	0.04	11.39	0.79	0.47	XX
G4X6GX		21.29	2.89	1.10	10.09	-0.50	-0.30	CE
G9FPW6		16.21	-2.19	-0.83	8.15	-2.44	-1.46	TO
G9W2B4		16.23	-2.17	-0.83	7.75	-2.85	-1.70	TO
GNWTJD		20.32	1.92	0.73	10.84	0.25	0.15	CE
HMN69Y		13.91	-4.49	-1.70	9.28	-1.31	-0.78	WZ
HRXV8U		17.06	-1.34	-0.51	9.84	-0.75	-0.45	CE
J2FW3U		17.65	-0.75	-0.29	12.03	1.43	0.86	TO
KUAPWP		20.18	1.78	0.68	11.17	0.57	0.34	CE
LPYR7H		15.49	-2.91	-1.10	10.23	-0.36	-0.22	TO
MAEQPH		16.82	-1.58	-0.60	11.05	0.45	0.27	IN
MXL8AC		23.73	5.33	2.02	11.31	0.72	0.43	TO
NDBY9H		19.03	0.63	0.24	10.70	0.11	0.07	XX
NTCZCQ		13.20	-5.20	-1.97	8.04	-2.55	-1.53	TO
PUPURQ		20.97	2.57	0.97	11.75	1.16	0.69	TO
RYMR4G		18.26	-0.14	-0.05	7.24	-3.36	-2.01	TO
T2J3BZ		20.06	1.66	0.63	7.33	-3.27	-1.95	XX

**Plastics Interlaboratory Testing Program**  
**Analysis 792**  
**Notched Charpy Impact - kJ/m<sup>2</sup>**

WebCode	Data Flag	Sample M29			Sample M30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
T8R6EG		19.61	1.21	0.46	14.38	3.79	2.27	TM
TDALNR		19.49	1.09	0.42	11.63	1.04	0.62	XX
U8DG68		17.29	-1.11	-0.42	10.66	0.07	0.04	TO
UL8L7J		16.26	-2.14	-0.81	9.84	-0.75	-0.45	WZ
W4GGA2		17.77	-0.63	-0.24	12.44	1.84	1.10	CE
WMCV7F		15.68	-2.72	-1.03	10.61	0.02	0.01	TO
XBWMJD		22.24	3.84	1.46	13.34	2.75	1.64	CE
XZPWF		21.11	2.71	1.03	10.42	-0.17	-0.10	CE
Y3GYMQ		18.04	-0.36	-0.14	8.98	-1.62	-0.97	TM
YWBCQG		20.12	1.72	0.65	9.54	-1.05	-0.63	WZ

**Summary Statistics**

## Grand Means

18.400 kJ/m<sup>2</sup>10.594 kJ/m<sup>2</sup>

## Std Dev Btwn Labs

2.635 kJ/m<sup>2</sup>1.673 kJ/m<sup>2</sup>

Statistics based on 41 of 42 reporting participants

Sample M29: ABS/PC &amp; Sample M30: ABS/PC

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

2BLP6K (X) - Data for both samples are high.

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

(CE) - Ceast

(IN) - Instron

(TM) - TMI

(TO) - Tinius Olsen

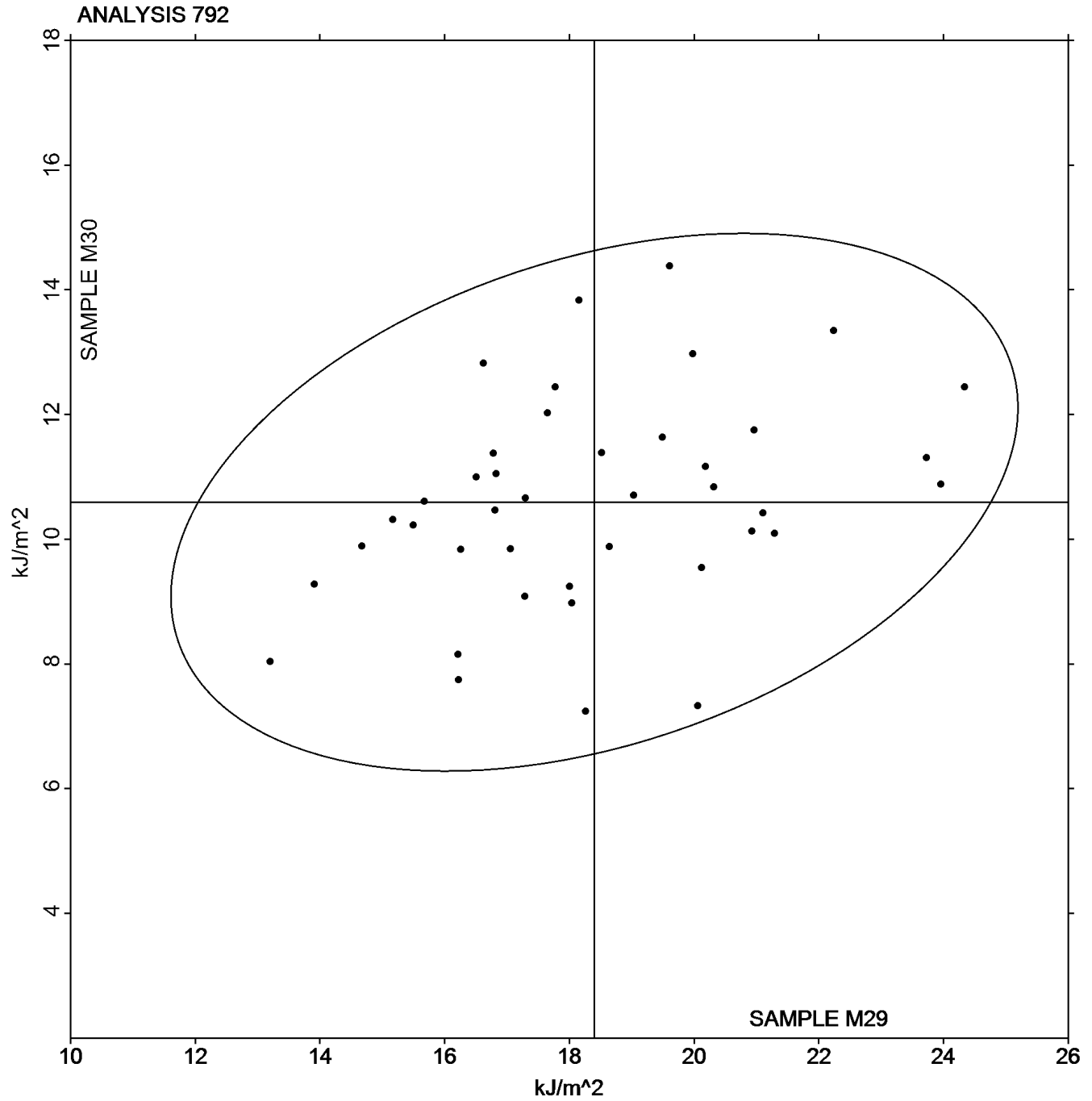
(TY) - Toyoseiki

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 792  
Notched Charpy Impact -  $\text{kJ/m}^2$

Grand Mean Sample M29: 18.400  $\text{kJ/m}^2$     Grand Mean Sample M30: 10.594  $\text{kJ/m}^2$



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 E29			Sample E30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2FKNMU		102.85	-3.21	-1.52	102.68	-3.90	-1.61	CE
74NTZ4		104.53	-1.53	-0.72	104.98	-1.60	-0.66	CE
9BRWHK	*	106.15	0.09	0.04	111.33	4.75	1.96	TO
BGDG4P		104.90	-1.16	-0.55	105.48	-1.10	-0.45	CE
BU39TZ		106.55	0.49	0.23	106.58	0.00	0.00	TY
C89NAP		105.63	-0.43	-0.21	106.45	-0.12	-0.05	CE
C8ALKK		105.45	-0.61	-0.29	106.38	-0.20	-0.08	TO
CKFJMY		105.80	-0.26	-0.12	105.40	-1.17	-0.48	DN
DF67WJ		107.13	1.07	0.50	109.05	2.48	1.02	AT
DT7HVK		107.08	1.02	0.48	104.15	-2.42	-1.00	TO
E9FNLA		107.25	1.19	0.56	107.50	0.93	0.38	AT
EFDBFU		105.83	-0.23	-0.11	105.20	-1.37	-0.57	TO
FYJ9CV		106.35	0.29	0.14	107.70	1.13	0.46	XX
GNWTJD		106.41	0.35	0.16	106.69	0.12	0.05	TO
HRXV8U		108.28	2.22	1.05	109.40	2.83	1.16	DN
J7R3FF		107.30	1.24	0.59	106.60	0.03	0.01	TO
JB24VR		102.23	-3.83	-1.81	103.15	-3.42	-1.41	TO
KDVR66		110.38	4.32	2.04	110.63	4.05	1.67	CE
LFFZRB		103.40	-2.66	-1.26	101.90	-4.67	-1.93	DN
LPYR7H		106.00	-0.06	-0.03	105.80	-0.77	-0.32	RO
MAEQPH		104.60	-1.46	-0.69	104.85	-1.72	-0.71	XA
TDALNR		101.13	-4.93	-2.33	103.85	-2.72	-1.12	XX
TJNAP3		107.05	0.99	0.47	106.53	-0.05	-0.02	CE
VUCWRF		109.35	3.29	1.55	110.53	3.95	1.63	CF
X9H8NY	X	86.70	-19.36	-9.14	86.98	-19.60	-8.08	CE
XBWMJD		108.00	1.94	0.92	107.83	1.25	0.52	CE
XQWM7U		105.14	-0.92	-0.44	107.78	1.20	0.50	XX
Y3GYMQ		108.90	2.84	1.34	109.13	2.55	1.05	AT

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

**Summary Statistics**

Grand Means

106.060 Degrees C

106.574 Degrees C

Std Dev Btwn Labs

2.117 Degrees C

2.427 Degrees C

Statistics based on 27 of 28 reporting participants

Sample E29: ABS/PC &amp; Sample E30: ABS/PC

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

X9H8NY (X) - Data for both samples are low.

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

(AT) - Atlas

(CE) - Ceast

(CF) - Coesfeld

(DN) - DYNISCO

(RO) - Rosand

(TO) - Tinius Olsen

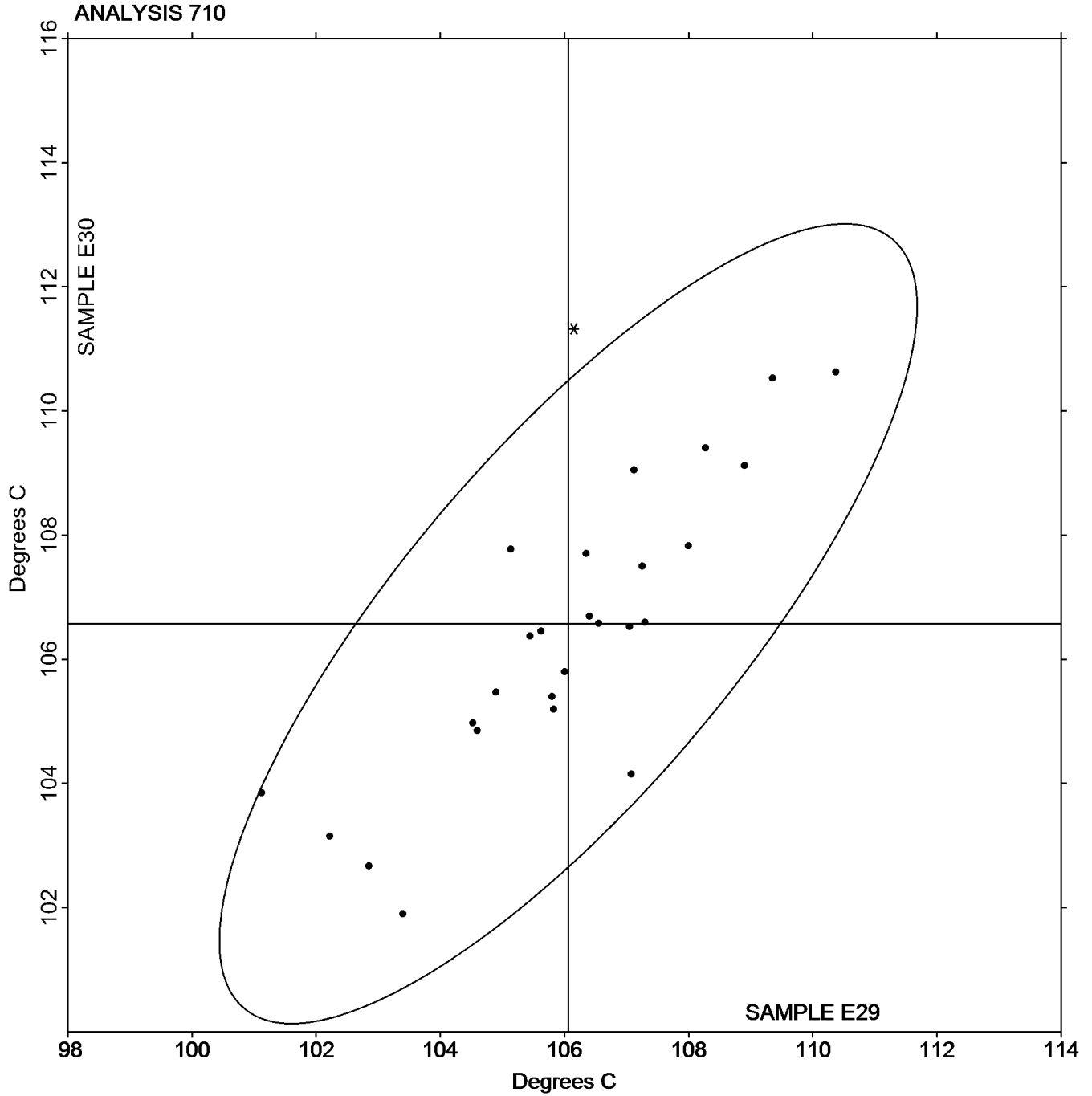
(TY) - Toyoseiki

(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 E29: 106.06 Degrees C      Grand Mean Sample E30: 106.57 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 G29			Sample G30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
C89NAP		81.8	-1.1	-0.37	81.6	-1.3	-0.50	CE
C8ALKK		79.8	-3.1	-1.05	79.9	-3.0	-1.16	TO
DT7HVK		82.1	-0.8	-0.29	82.0	-0.9	-0.34	TO
FYJ9CV		83.7	0.8	0.27	84.8	1.9	0.72	XX
GNWTJD		80.4	-2.5	-0.85	79.7	-3.2	-1.21	TO
JB24VR		81.4	-1.5	-0.52	80.9	-2.0	-0.77	TO
KDVR66		87.6	4.7	1.60	88.5	5.6	2.13	CE
KG4P7R		78.7	-4.2	-1.45	81.3	-1.6	-0.62	XX
QJWAVL		85.6	2.7	0.92	84.2	1.3	0.51	XX
W388LB		80.7	-2.2	-0.75	81.4	-1.5	-0.58	XX
XBWMJD		82.7	-0.2	-0.06	82.3	-0.6	-0.23	CE
XQWM7U		87.8	4.9	1.67	85.8	2.9	1.12	XX
YWBCQG		85.5	2.6	0.87	85.4	2.5	0.93	CE

Summary Statistics			
Grand Means	82.89	Degrees C	82.90
			Degrees C
Std Dev Btwn Labs	2.93	Degrees C	2.63
			Degrees C
Statistics based on 13 of 13 reporting participants			

Sample G29: PP & Sample G30: PP

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

(CE) - Ceast

(TO) - Tinius Olsen

(XX) - Instrument manufacturer not specified by lab



## Analysis 712

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

WebCode	Data Flag	Sample N29			Sample N30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2AQ83H		80.85	0.41	0.43	80.85	0.40	0.44	XX
4VKVMA		81.13	0.68	0.73	81.13	0.67	0.74	AT
79ZRF4		80.55	0.11	0.11	80.63	0.17	0.19	TO
AR3TW7		80.50	0.06	0.06	80.88	0.42	0.47	CF
BU39TZ		81.95	1.51	1.61	81.88	1.42	1.57	TY
C89NAP	*	79.20	-1.24	-1.33	79.95	-0.50	-0.56	CE
E4XQRR		79.63	-0.82	-0.87	79.45	-1.00	-1.11	CE
E9FNLA		81.15	0.71	0.75	81.08	0.62	0.69	AT
ER4A4C		79.83	-0.62	-0.66	79.86	-0.59	-0.65	CE
F4FYFM		79.78	-0.67	-0.71	79.95	-0.50	-0.56	AT
FMLB43		81.35	0.91	0.97	81.48	1.02	1.13	XX
G4X6GX		81.86	1.41	1.51	81.78	1.32	1.46	ZW
G9FPW6		80.18	-0.27	-0.29	80.10	-0.35	-0.39	CE
G9W2B4		80.15	-0.29	-0.31	80.00	-0.45	-0.50	CE
GHTM7V		81.60	1.16	1.23	81.18	0.72	0.80	DN
GNVXYL		81.10	0.66	0.70	81.13	0.67	0.74	CE
GNWTJD	*	77.72	-2.73	-2.91	77.55	-2.90	-3.21	TO
J2FW3U	*	79.48	-0.97	-1.03	80.18	-0.28	-0.31	AT
JB24VR		80.95	0.51	0.54	80.98	0.52	0.58	TO
KUAPWP		79.20	-1.24	-1.33	79.20	-1.25	-1.39	CE
LFFZRB		80.68	0.23	0.25	80.13	-0.33	-0.36	DN
NDBY9H		81.28	0.83	0.89	81.28	0.82	0.91	AT
REVNKU		80.08	-0.37	-0.39	80.15	-0.30	-0.34	AT
RHBF8G		79.40	-1.04	-1.11	79.33	-1.13	-1.25	AT
UL8L7J		81.05	0.61	0.65	80.98	0.52	0.58	CF
W4GGA2	X	75.28	-5.17	-5.51	77.15	-3.30	-3.66	CE
WMCV7F		79.98	-0.47	-0.50	79.95	-0.50	-0.56	RO
WQFLFF		79.60	-0.84	-0.90	79.55	-0.90	-1.00	CE
XFNRE4		81.50	1.06	1.13	81.33	0.87	0.97	CE
Y3GYMQ		81.23	0.78	0.83	81.28	0.82	0.91	AT
Y7H64H		80.35	-0.09	-0.10	80.38	-0.08	-0.09	RO
YWBCQG		80.53	0.09	0.09	80.53	0.08	0.09	CF

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

Summary Statistics	
Grand Means	
80.445 Degrees C	80.453 Degrees C
Stnd Dev Btwn Labs	
0.938 Degrees C	0.903 Degrees C
Statistics based on 31 of 32 reporting participants	

Sample N29: HIPS & Sample N30: HIPS

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

W4GGA2 (X) - Data for both samples 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

(RO) - Rosand

(TO) - Tinius Olsen

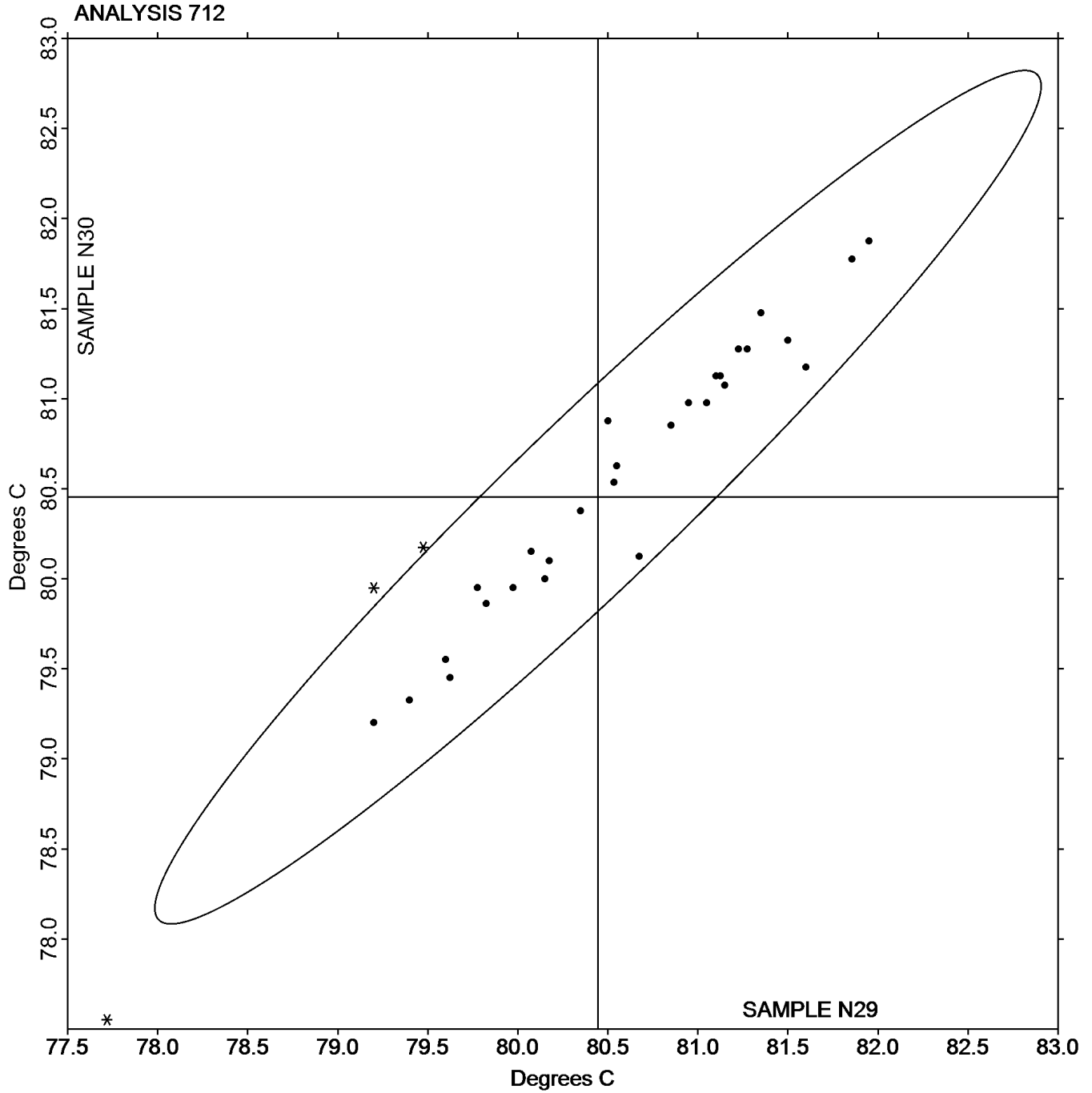
(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

(ZW) - Zwick

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

Grand Mean Sample N29: 80.445 Degrees C    Grand Mean Sample N30: 80.453 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 H29			Sample H30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2FKNMU	X	99.00	-0.04	-0.04	97.92	-1.14	-1.32	CE
2H6ZA9		100.63	1.59	1.77	100.43	1.38	1.59	TO
6DML4B		98.30	-0.74	-0.82	98.47	-0.59	-0.68	TO
BU39TZ		98.75	-0.29	-0.32	98.70	-0.36	-0.41	TY
C89NAP		98.13	-0.91	-1.01	98.15	-0.91	-1.05	CE
CKFJMY	*	97.65	-1.39	-1.54	97.38	-1.67	-1.93	DN
E9FNLA		100.15	1.11	1.23	100.27	1.21	1.40	CF
G4X6GX		100.68	1.64	1.83	100.52	1.46	1.69	WZ
GCPK3V		98.40	-0.64	-0.71	98.33	-0.72	-0.83	CE
J2FW3U		97.88	-1.16	-1.28	97.85	-1.21	-1.39	AT
JB24VR		98.17	-0.87	-0.97	98.30	-0.76	-0.87	TO
KXDDFL		98.40	-0.64	-0.71	98.55	-0.51	-0.58	TO
LPYR7H		98.87	-0.17	-0.19	98.83	-0.22	-0.26	RO
QCAQBH		99.83	0.79	0.88	99.97	0.91	1.05	CE
QGPEQ9		98.45	-0.59	-0.65	98.68	-0.37	-0.43	CE
QV4EMY		99.05	0.01	0.01	98.93	-0.12	-0.14	CE
T8R6EG		98.83	-0.21	-0.23	98.77	-0.29	-0.33	CE
TDALNR		99.73	0.69	0.77	99.83	0.78	0.90	XX
U8DG68		100.87	1.83	2.03	100.62	1.56	1.80	TO
UL8L7J		98.87	-0.17	-0.19	99.03	-0.02	-0.03	CF
WMCV7F		98.05	-0.99	-1.10	98.50	-0.56	-0.64	RO
X9H8NY	X	98.40	-0.64	-0.71	99.73	0.68	0.78	CE
XBWMJD		98.70	-0.34	-0.38	98.65	-0.41	-0.47	CE
XGZ9RG		99.17	0.13	0.14	99.10	0.04	0.05	CE
Y3GYMQ		99.43	0.39	0.44	99.60	0.54	0.63	AT
Y7H64H		99.74	0.70	0.78	99.87	0.81	0.94	RO
YWBCQG		99.23	0.19	0.22	99.07	0.01	0.01	CF

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

Summary Statistics	
Grand Means	99.039 Degrees C
Stnd Dev Btwn Labs	0.901 Degrees C

Statistics based on 25 of 27 reporting participants

Sample H29: ABS/PC & Sample H30: ABS/PC

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

2FKNMU (X) - Inconsistent in testing between samples and inconsistent in testing within Sample H29.

X9H8NY (X) - Inconsistent in testing between samples.

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

(AT) - Atlas

(CF) - Coesfeld

(RO) - Rosand

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

(CE) - Ceast

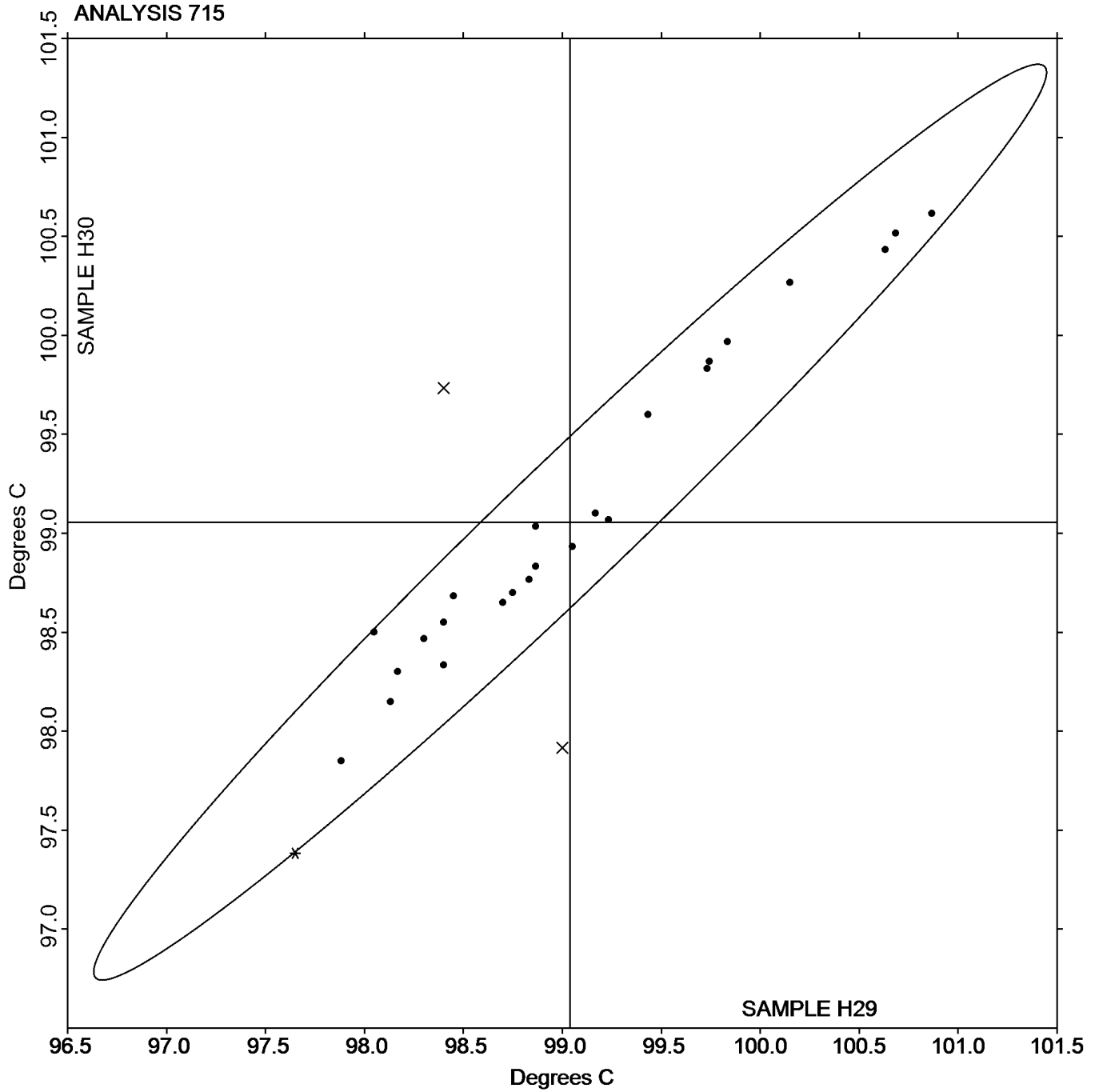
(DN) - DYNISCO

(TO) - Tinius Olsen

(WZ) - Zwick

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

Grand Mean Sample H29: 99.039 Degrees C    Grand Mean Sample H30: 99.056 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 R29			Sample R30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2FKNMU	X	101.85	0.69	0.77	100.23	-0.91	-0.92	XX
2H6ZA9	*	98.87	-2.29	-2.53	98.40	-2.74	-2.79	TO
6DML4B		100.20	-0.96	-1.06	99.98	-1.16	-1.18	TO
8ULBGJ		101.23	0.08	0.08	101.27	0.13	0.13	CE
BU39TZ		101.32	0.16	0.18	101.33	0.19	0.20	TY
CKFJMY		102.23	1.08	1.19	101.97	0.83	0.84	DN
E9FNLA		102.03	0.88	0.97	101.90	0.76	0.77	CF
G4X6GX		102.19	1.03	1.14	102.13	0.99	1.01	WZ
GCPK3V		100.87	-0.29	-0.32	100.80	-0.34	-0.35	CE
GNWTJD		101.14	-0.02	-0.02	101.02	-0.12	-0.13	TO
J2FW3U		100.27	-0.89	-0.99	100.48	-0.66	-0.67	AT
JB24VR		100.42	-0.74	-0.82	100.32	-0.82	-0.84	TO
KDVR66		100.92	-0.24	-0.27	101.07	-0.07	-0.07	CE
KXDDFL		100.50	-0.66	-0.73	100.40	-0.74	-0.75	TO
LPYR7H		101.38	0.23	0.25	101.35	0.21	0.21	RO
QGPEQ9		100.67	-0.49	-0.54	100.90	-0.24	-0.24	CE
QVM48F		99.75	-1.41	-1.56	99.53	-1.61	-1.63	TO
T8R6EG		100.67	-0.49	-0.54	100.60	-0.54	-0.55	CE
TDALNR	X	102.78	1.63	1.80	102.15	1.01	1.02	XX
U8DG68		102.92	1.76	1.95	103.03	1.89	1.93	TO
UL8L7J		101.95	0.79	0.88	101.87	0.73	0.74	CF
WMCV7F		100.65	-0.51	-0.56	100.70	-0.44	-0.45	RO
X9H8NY		101.95	0.79	0.88	102.32	1.18	1.20	CE
XBWMJD		100.80	-0.36	-0.40	100.87	-0.27	-0.28	CE
XGZ9RG		101.33	0.18	0.20	101.35	0.21	0.21	CE
Y3GYMQ		102.13	0.98	1.08	102.15	1.01	1.03	AT
Y7H64H		102.10	0.94	1.04	102.20	1.06	1.08	RO
YWBCQG		101.60	0.44	0.49	101.70	0.56	0.57	CF

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

**Summary Statistics**

Grand Means

101.157 Degrees C

101.140 Degrees C

Std Dev Btwn Labs

0.904 Degrees C

0.984 Degrees C

Statistics based on 26 of 28 reporting participants

Sample R29: ABS/PC &amp; Sample R30: ABS/PC

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

2FKNMU (X) - Inconsistent in testing between samples and inconsistent in testing within Sample R29.

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

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

(AT) - Atlas

(CE) - Ceast

(CF) - Coesfeld

(DN) - DYNISCO

(RO) - Rosand

(TO) - Tinius Olsen

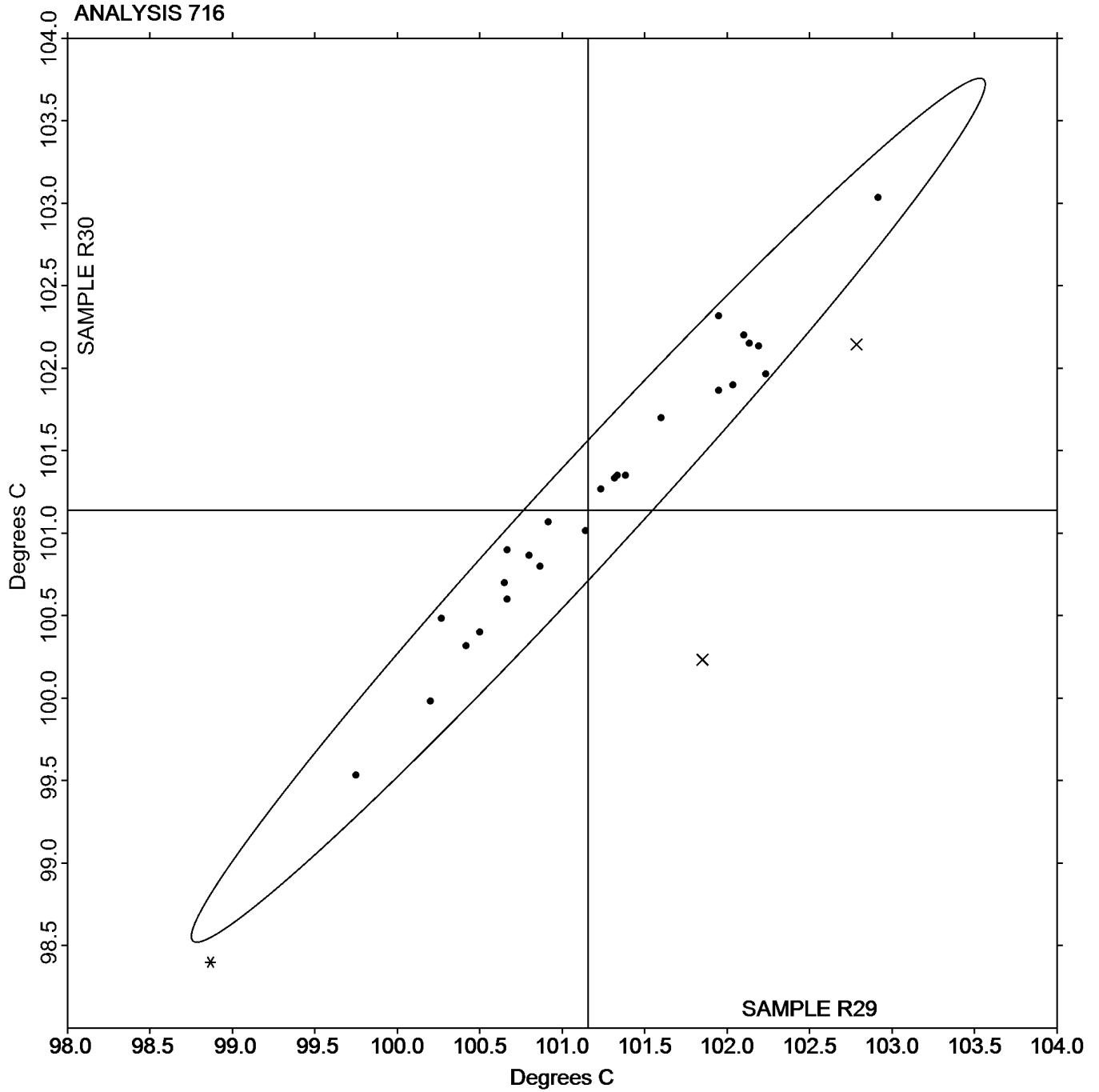
(TY) - Toyoseiki

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample R29: 101.16 Degrees C    Grand Mean Sample R30: 101.14 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 X29			Sample X30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
26TR8F		7.02	-0.01	-0.04	6.03	0.15	0.62	DY
2APATM		6.62	-0.41	-1.34	5.91	0.02	0.08	TO
2AQ83H		7.09	0.05	0.17	6.10	0.21	0.88	XX
2FKNMU		6.33	-0.71	-2.31	5.32	-0.57	-2.40	CE
2JGR7V		7.32	0.28	0.92	6.03	0.14	0.61	WZ
2T6LHR		6.95	-0.08	-0.27	5.70	-0.19	-0.79	TO
4QC2RJ		6.49	-0.54	-1.76	5.60	-0.29	-1.21	CE
679FRD	X	2.37	-4.67	-15.21	2.09	-3.80	-16.08	TO
6ERGM9		6.60	-0.43	-1.41	5.40	-0.49	-2.06	TO
74NTZ4		7.16	0.13	0.42	5.88	-0.01	-0.05	DY
7CA24D		6.57	-0.47	-1.52	5.64	-0.25	-1.05	XX
7NEZG8		6.77	-0.27	-0.87	5.96	0.07	0.31	TO
7Z9G79		7.38	0.34	1.12	5.85	-0.04	-0.18	TO
8JDFPT	X	12.90	5.87	19.13	11.90	6.01	25.48	TY
93VW6D	X	6.73	-0.30	-0.98	5.06	-0.83	-3.50	TM
96XD7J		6.97	-0.06	-0.20	5.90	0.02	0.07	CE
AR3TW7		7.03	0.00	-0.01	5.81	-0.08	-0.34	GO
BU39TZ		7.27	0.24	0.77	6.13	0.24	1.01	TY
C7EX4B		7.32	0.28	0.92	5.94	0.05	0.20	TO
C89NAP		7.04	0.00	0.01	5.83	-0.06	-0.26	TO
C8ALKK		7.03	-0.01	-0.02	5.89	0.01	0.02	TO
CKEMC4		6.55	-0.48	-1.57	5.55	-0.34	-1.43	TO
CVE9MA	X	5.99	-1.04	-3.40	5.98	0.09	0.39	DY
D2DEG3		7.05	0.02	0.06	5.75	-0.14	-0.58	TO
DT7HVK	X	6.08	-0.96	-3.11	5.76	-0.13	-0.54	CS
E32AEV		7.10	0.07	0.22	6.05	0.16	0.69	DY
E4XQRR		6.75	-0.28	-0.92	5.80	-0.09	-0.37	TO
E9FNLA		7.08	0.04	0.14	5.86	-0.03	-0.11	TO
EFDBFU		7.40	0.37	1.20	6.10	0.21	0.90	AT
ER4A4C		7.29	0.26	0.85	6.04	0.16	0.66	GO
F4FYFM		7.36	0.33	1.08	6.21	0.32	1.37	WZ
FMLB43		7.37	0.33	1.08	6.03	0.14	0.59	XX

## Analysis 750

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

WebCode	Data Flag	Sample X29			Sample X30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
FX99BV	*	7.60	0.57	1.85	5.90	0.01	0.06	TO
FYJ9CV		7.02	-0.01	-0.03	6.05	0.16	0.69	KA
G4X6GX		7.03	-0.01	-0.02	5.87	-0.02	-0.07	GO
G9FPW6		7.01	-0.03	-0.09	6.05	0.16	0.69	TO
G9W2B4		7.05	0.01	0.04	5.96	0.07	0.29	TO
GFCUF9		7.13	0.09	0.31	6.07	0.18	0.77	TO
GHTM7V		6.85	-0.18	-0.60	5.65	-0.24	-1.00	DY
GNVXYL		6.77	-0.27	-0.87	5.87	-0.02	-0.09	WZ
GNWTJD		6.94	-0.10	-0.32	5.80	-0.09	-0.37	TO
HJ4QFD		7.00	-0.04	-0.12	5.91	0.02	0.08	DY
HRXV8U		7.10	0.07	0.22	5.90	0.01	0.06	DY
J2FW3U		6.95	-0.08	-0.27	5.85	-0.04	-0.16	TO
J8T6U6		6.64	-0.40	-1.30	5.76	-0.13	-0.54	XX
JCEQFQ		6.90	-0.13	-0.43	5.80	-0.09	-0.37	XX
JNQZ3G		6.58	-0.46	-1.48	5.69	-0.20	-0.83	CE
JV34LB		6.51	-0.52	-1.70	5.82	-0.07	-0.30	TO
KDVR66		7.01	-0.03	-0.09	6.07	0.18	0.76	CE
KUAPWP	X	7.84	0.81	2.65	6.95	1.07	4.51	TO
L2HLU3		6.99	-0.04	-0.14	5.78	-0.11	-0.45	CS
L6QUGU		7.07	0.04	0.12	5.85	-0.04	-0.17	TO
LFFZRB		7.05	0.02	0.06	5.90	0.01	0.06	TO
LPYR7H		7.30	0.27	0.87	5.95	0.06	0.27	TO
LRFEFG		7.10	0.07	0.22	6.20	0.31	1.33	DY
NDBY9H		6.96	-0.07	-0.22	5.60	-0.29	-1.21	TO
NN4HDX		7.21	0.17	0.57	5.82	-0.07	-0.30	CE
P6HBGR	*	7.74	0.71	2.31	6.52	0.63	2.69	TO
PGF8MZ		7.24	0.21	0.68	6.23	0.34	1.45	DY
PJFVRH		7.10	0.06	0.20	5.97	0.08	0.33	DY
Q26QEC		6.72	-0.32	-1.04	5.38	-0.51	-2.15	TO
Q7WZFX		6.62	-0.42	-1.36	5.39	-0.50	-2.13	XX
Q8GKY2		6.85	-0.18	-0.60	5.80	-0.09	-0.37	KA
QGPEQ9		7.45	0.42	1.36	6.15	0.26	1.12	TO



## Analysis 750

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

WebCode	Data Flag	Sample X29			Sample X30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
QMK47Z		6.84	-0.19	-0.63	5.72	-0.17	-0.73	WZ
QVM48F		7.30	0.27	0.87	5.75	-0.14	-0.58	TO
QZYB9J		7.29	0.25	0.82	6.01	0.12	0.50	TO
RCQ3PG		7.15	0.12	0.38	6.10	0.21	0.90	TO
REY89X	X	5.96	-1.07	-3.50	5.44	-0.45	-1.91	TO
RHBF8G		7.25	0.22	0.71	6.15	0.26	1.12	DY
RW362Z		6.82	-0.22	-0.71	5.66	-0.23	-0.98	CE
RYMR4G	*	7.82	0.78	2.56	6.32	0.43	1.83	KA
T2J3BZ		6.80	-0.23	-0.76	5.65	-0.24	-1.00	TO
TBQJZL	X	5.65	-1.38	-4.51	5.65	-0.24	-1.00	DY
TDALNR		6.92	-0.11	-0.37	5.96	0.07	0.31	XX
TJNAP3		7.68	0.65	2.10	6.35	0.46	1.96	TO
U4TNWQ		6.76	-0.27	-0.89	5.83	-0.06	-0.24	TO
U8DG68		7.35	0.32	1.03	6.10	0.21	0.90	TO
UL8L7J		6.87	-0.16	-0.53	5.90	0.01	0.04	WZ
UTAPVH		7.00	-0.03	-0.11	5.95	0.06	0.27	TO
VGVLAP		6.76	-0.27	-0.89	5.90	0.02	0.07	TO
VUCWRF		6.68	-0.36	-1.17	5.66	-0.23	-0.96	DY
WMVVRW		7.02	-0.01	-0.04	5.81	-0.08	-0.35	TO
WNWZUQ	X	17.34	10.30	33.58	12.16	6.27	26.56	XX
X9H8NY	*	7.67	0.63	2.06	6.01	0.12	0.50	GO
XAG6KE		7.18	0.15	0.48	6.07	0.18	0.77	DY
XBWMJD		7.15	0.12	0.38	5.97	0.08	0.35	DY
XHV6ZB		6.94	-0.09	-0.30	5.65	-0.24	-1.00	GO
XQWM7U		6.73	-0.31	-1.00	5.53	-0.36	-1.53	XX
XZPWF		7.02	-0.02	-0.06	5.72	-0.17	-0.71	XX
Y3GYMQ		7.26	0.23	0.75	6.27	0.39	1.64	TO
Y4DEYN		7.05	0.02	0.06	6.05	0.16	0.69	TO
Y8BXY2		7.69	0.66	2.16	6.29	0.40	1.71	TO
YWBCQG	*	6.50	-0.53	-1.74	5.23	-0.66	-2.80	XX

**Plastics Interlaboratory Testing Program**  
**Analysis 750**  
**Flow Rates of Thermoplastics (190 or 230C/2.16 kg) - g/10 mins**

Summary Statistics	
Grand Means	
7.033 grams/10 mins	5.887 grams/10 mins
Std Dev Btwn Labs	
0.307 grams/10 mins	0.236 grams/10 mins
Statistics based on 85 of 94 reporting participants	

Sample X29: LDPE & Sample X30: LDPE

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

679FRD (X) - Data for both samples are low.

8JDFPT (X) - Data for both samples are high.

93VW6D (X) - Data for Sample X30 are low.

CVE9MA (X) - Data for Sample X29 are low. Also inconsistent in testing within Sample X29.

DT7HVK (X) - Data for Sample X29 are low.

KUAPWP (X) - Data for Sample X30 are high.

REY89X (X) - Data for Sample X29 are low. Also inconsistent in testing within Sample X29.

TBQJZL (X) - Data for Sample X29 are low.

WNWZUQ (X) - Data for both samples are high. Also inconsistent in testing within Sample X29.

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

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(DY) - Dynisco

(GO) - Gottfert

(KA) - Kayeness

(TM) - TMI

(TO) - Tinius Olsen

(TY) - Toyoseiki Seisakusho

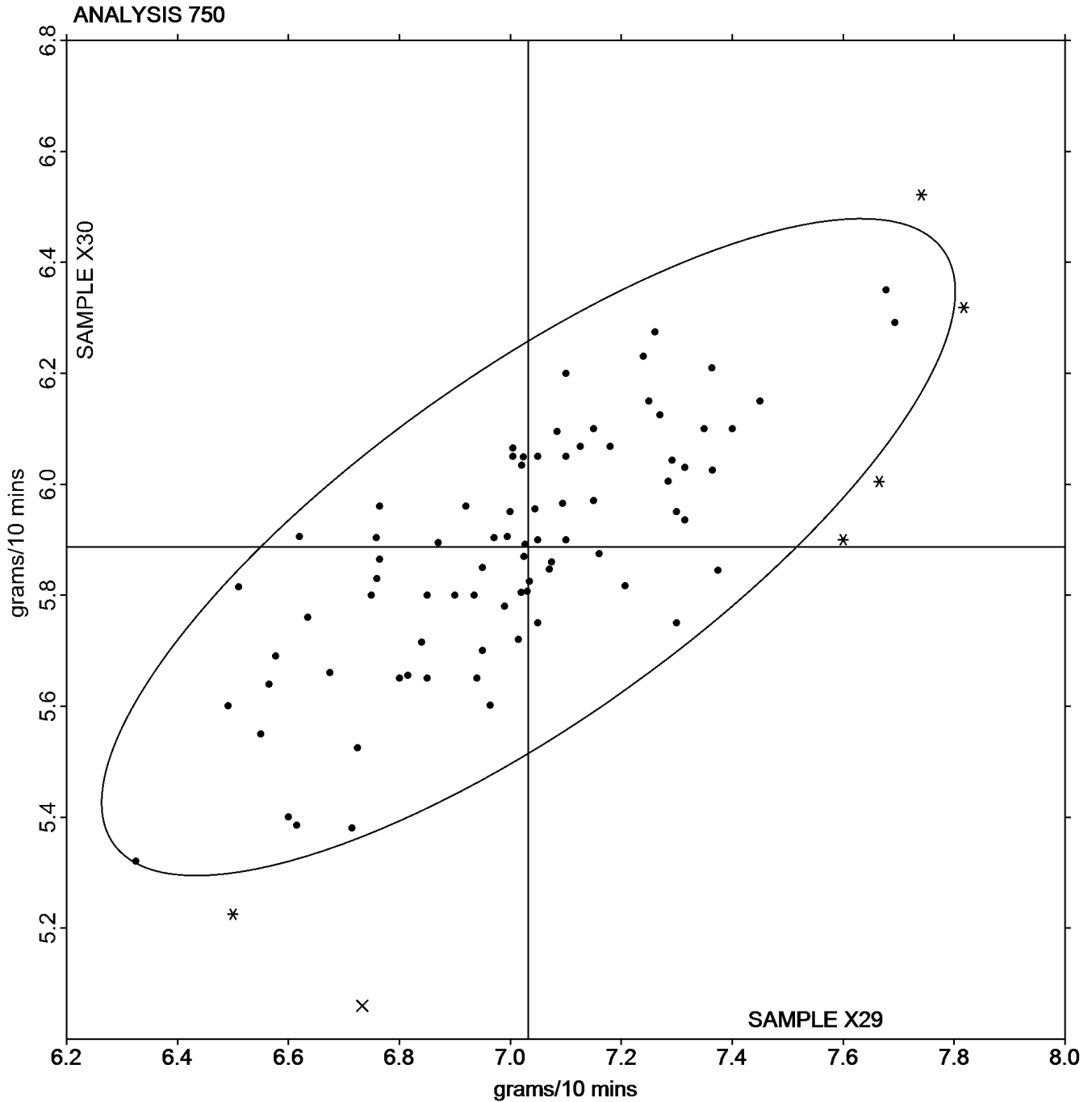
(WZ) - Zwick

(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 X29: 7.0326 grams/10 mins

Grand Mean Sample X30: 5.8867 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.

## Plastics Interlaboratory Testing Program

## Analysis 718

## Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T29			Sample T30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
26TR8F		1.18657	0.00282	1.18	1.18443	0.00191	0.78	XX
2BLP6K		1.18027	-0.00348	-1.45	1.18000	-0.00252	-1.03	XX
2GRLNK		1.18300	-0.00075	-0.31	1.18233	-0.00019	-0.08	XX
2T6LHR		1.18190	-0.00185	-0.77	1.18150	-0.00102	-0.42	XX
4FUUR4		1.18540	0.00165	0.69	1.18493	0.00241	0.98	XX
4QMFQ8		1.18570	0.00195	0.82	1.18477	0.00224	0.92	XX
4VKVMA	X	1.84700	0.66325	277.13	1.82500	0.64248	262.38	XX
4ZV7E4		1.18533	0.00158	0.66	1.18380	0.00128	0.52	XX
679FRD	X	1.18267	-0.00108	-0.45	1.17633	-0.00619	-2.53	XX
6DML4B	*	1.19067	0.00692	2.89	1.18867	0.00614	2.51	XX
6JMD9T	X	0.42033	-0.76342	-318.98	0.41030	-0.77222	-315.37	XX
6RPRHF		1.18583	0.00208	0.87	1.18460	0.00208	0.85	XX
74NTZ4		1.18513	0.00138	0.58	1.18393	0.00141	0.58	XX
7GDKTK		1.18257	-0.00118	-0.49	1.18277	0.00024	0.10	XX
7VULNP		1.18303	-0.00072	-0.30	1.18103	-0.00149	-0.61	XX
82GQWK		1.18447	0.00072	0.30	1.18347	0.00094	0.38	XX
8JDFPT		1.18140	-0.00235	-0.98	1.18013	-0.00239	-0.98	XX
9BRWHK	X	1.18680	0.00305	1.27	1.18260	0.00008	0.03	XX
9BXUHA		1.18367	-0.00008	-0.03	1.18300	0.00048	0.19	XX
AC7B78	X	1.18600	0.00225	0.94	1.17933	-0.00319	-1.30	XX
AHDX2W		1.18547	0.00172	0.72	1.18340	0.00088	0.36	XX
BGDG4P		1.18567	0.00192	0.80	1.18423	0.00171	0.70	XX
BJ8Z8C		1.18407	0.00032	0.13	1.18279	0.00026	0.11	XX
BLH6FD		1.18323	-0.00052	-0.22	1.18227	-0.00026	-0.11	XX
BU39TZ		1.18200	-0.00175	-0.73	1.18003	-0.00249	-1.02	XX
C3CZTH		1.18693	0.00318	1.33	1.18547	0.00294	1.20	XX
C89NAP		1.18563	0.00188	0.79	1.18387	0.00134	0.55	XX
C8ALKK		1.18300	-0.00075	-0.31	1.18200	-0.00052	-0.21	XX
CVE9MA		1.18447	0.00072	0.30	1.18213	-0.00039	-0.16	XX
D386MG		1.18467	0.00092	0.38	1.18297	0.00044	0.18	XX
D9L8VD		1.18033	-0.00342	-1.43	1.17767	-0.00486	-1.98	XX
DF67WJ		1.18247	-0.00128	-0.54	1.18313	0.00061	0.25	XX

## Plastics Interlaboratory Testing Program

## Analysis 718

## Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T29			Sample T30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
DJX3PC		1.18617	0.00242	1.01	1.18477	0.00224	0.92	XX
DT7HVK		1.18540	0.00165	0.69	1.18287	0.00034	0.14	XX
E32AEV		1.18617	0.00242	1.01	1.18470	0.00218	0.89	XX
E4XQRR		1.18347	-0.00028	-0.12	1.18277	0.00024	0.10	XX
E9FNLA		1.18600	0.00225	0.94	1.18477	0.00224	0.92	XX
ER4A4C		1.18267	-0.00108	-0.45	1.18267	0.00014	0.06	XX
EUTGN9		1.18166	-0.00209	-0.87	1.18193	-0.00059	-0.24	XX
EWPEA8		1.18200	-0.00175	-0.73	1.17967	-0.00286	-1.17	XX
FMLB43		1.18537	0.00162	0.68	1.18497	0.00244	1.00	XX
FUP9XZ	X	1.18097	-0.00278	-1.16	1.17627	-0.00626	-2.56	XX
FXA6LQ		1.18323	-0.00052	-0.22	1.18143	-0.00109	-0.45	XX
FYJ9CV		1.18640	0.00265	1.11	1.18483	0.00231	0.94	XX
G4X6GX		1.18550	0.00175	0.73	1.18430	0.00178	0.73	XX
G92DDR		1.18460	0.00085	0.36	1.18397	0.00144	0.59	XX
G9FPW6	X	1.17867	-0.00508	-2.12	1.18167	-0.00086	-0.35	XX
G9W2B4		1.18503	0.00128	0.54	1.18447	0.00194	0.79	XX
GC3A8T		1.18533	0.00158	0.66	1.18360	0.00108	0.44	XX
GNWTJD		1.18237	-0.00138	-0.58	1.18197	-0.00056	-0.23	XX
GW9UW2		1.18690	0.00315	1.32	1.18447	0.00194	0.79	XX
H3XMT2		1.18603	0.00228	0.95	1.18383	0.00131	0.53	XX
H8W874		1.18583	0.00208	0.87	1.18463	0.00211	0.86	XX
HJ4QFD		1.18333	-0.00042	-0.17	1.18200	-0.00052	-0.21	XX
HRXV8U		1.18647	0.00272	1.14	1.18413	0.00161	0.66	XX
J2FVEB		1.18200	-0.00175	-0.73	1.18057	-0.00196	-0.80	XX
J2FW3U		1.18823	0.00448	1.87	1.18783	0.00531	2.17	XX
J7R3FF		1.18667	0.00292	1.22	1.18600	0.00348	1.42	XX
JB24VR		1.18400	0.00025	0.11	1.18267	0.00014	0.06	XX
JNQZ3G		1.18543	0.00168	0.70	1.18343	0.00091	0.37	XX
K8MAN4		1.17860	-0.00515	-2.15	1.17677	-0.00576	-2.35	XX
KDVR66	X	1.16993	-0.01382	-5.77	1.16337	-0.01916	-7.82	XX
KJTWQN		1.18567	0.00192	0.80	1.18557	0.00304	1.24	XX
KKMK8Y		1.18550	0.00175	0.73	1.18390	0.00138	0.56	XX

**Plastics Interlaboratory Testing Program**  
**Analysis 718**  
**Specific Gravity - sp gr 23/23 C**

WebCode	Data Flag	Sample T29			Sample T30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
KTQVQV		1.18449	0.00074	0.31	1.18271	0.00018	0.07	XX
KUAPWP		1.18507	0.00132	0.55	1.18460	0.00208	0.85	XX
L6QUGU		1.17867	-0.00508	-2.12	1.17733	-0.00519	-2.12	XX
LFFZRB		1.18600	0.00225	0.94	1.18600	0.00348	1.42	XX
MQET23		1.18547	0.00172	0.72	1.18473	0.00221	0.90	XX
N4YVUE		1.18300	-0.00075	-0.31	1.18000	-0.00252	-1.03	XX
N7YBXV		1.18407	0.00032	0.13	1.18213	-0.00039	-0.16	XX
NDBY9H		1.18400	0.00025	0.11	1.18300	0.00048	0.19	XX
NNGFJW		1.18000	-0.00375	-1.57	1.17900	-0.00352	-1.44	XX
P6HBGR		1.18000	-0.00375	-1.57	1.18000	-0.00252	-1.03	XX
PGF8MZ	X	1.18233	-0.00142	-0.59	1.17400	-0.00852	-3.48	XX
PJFVU4		1.18067	-0.00308	-1.29	1.18000	-0.00252	-1.03	XX
Q26QEC	X	1.19800	0.01425	5.95	1.18400	0.00148	0.60	XX
Q8GKY2		1.18093	-0.00282	-1.18	1.17940	-0.00312	-1.28	XX
QBMCEZ		1.18500	0.00125	0.52	1.18533	0.00281	1.15	XX
QGPEQ9		1.18593	0.00218	0.91	1.18467	0.00214	0.87	XX
QT3EM3		1.18103	-0.00272	-1.13	1.17820	-0.00432	-1.77	XX
QZ6VMT		1.18393	0.00018	0.08	1.18220	-0.00032	-0.13	XX
QZYB9J		1.18127	-0.00248	-1.04	1.17983	-0.00269	-1.10	XX
REVNKU		1.18000	-0.00375	-1.57	1.17733	-0.00519	-2.12	XX
RFD4Z3		1.18372	-0.00003	-0.01	1.18203	-0.00049	-0.20	XX
RW362Z		1.18000	-0.00375	-1.57	1.18000	-0.00252	-1.03	XX
RYMR4G		1.18013	-0.00362	-1.51	1.17940	-0.00312	-1.28	XX
TBQJZL		1.18540	0.00165	0.69	1.18427	0.00174	0.71	XX
TDALNR		1.18000	-0.00375	-1.57	1.17933	-0.00319	-1.30	XX
TJNAP3		1.17933	-0.00442	-1.84	1.17733	-0.00519	-2.12	XX
TRFMQM		1.18387	0.00012	0.05	1.18403	0.00151	0.62	XX
W4GGA2		1.18620	0.00245	1.02	1.18413	0.00161	0.66	XX
WNWZUQ		1.18100	-0.00275	-1.15	1.17833	-0.00419	-1.71	XX
X9H8NY		1.17987	-0.00388	-1.62	1.17840	-0.00412	-1.68	XX
XBWMJD		1.18463	0.00088	0.37	1.18257	0.00004	0.02	XX

**Plastics Interlaboratory Testing Program**  
**Analysis 718**  
**Specific Gravity - sp gr 23/23 C**

WebCode	Data Flag	Sample T29			Sample T30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XGJBHP		1.18290	-0.00085	-0.35	1.18255	0.00003	0.01	XX
XHV6ZB		1.18000	-0.00375	-1.57	1.18000	-0.00252	-1.03	XX
XQWM7U	X	1.17533	-0.00842	-3.52	1.39280	0.21028	85.87	XX
XUGHNT		1.18543	0.00168	0.70	1.18460	0.00208	0.85	XX
Y3GYMQ		1.18390	0.00015	0.06	1.18263	0.00011	0.04	XX
Y98ZRG		1.18477	0.00102	0.43	1.18410	0.00158	0.64	XX
Y9GMVH		1.18530	0.00155	0.65	1.18380	0.00128	0.52	XX
YWBCQG		1.18000	-0.00375	-1.57	1.17950	-0.00302	-1.24	XX

**Summary Statistics**

## Grand Means

1.183749 sp gr 23/23 C

1.182525 sp gr 23/23 C

## Std Dev Btwn Labs

0.002393 sp gr 23/23 C

0.002449 sp gr 23/23 C

Statistics based on 92 of 103 reporting participants

Sample T29: ABS/PC &amp; Sample T30: ABS/PC

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

- 4VKVMA (X) - Data for both samples are high. Also inconsistent in testing within Sample T30.
- 679FRD (X) - Inconsistent in testing between samples and inconsistent in testing within Sample T29.
- 6JMD9T (X) - Data for both samples are low. Also inconsistent in testing within Sample T29.
- 9BRWHK (X) - Inconsistent in testing between samples.
- AC7B78 (X) - Inconsistent in testing between samples.
- FUP9XZ (X) - Inconsistent in testing between samples and inconsistent in testing within Sample T30.
- G9FPW6 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample T29.
- KDVR66 (X) - Data for both samples are low. Also inconsistent in testing within both samples.
- PGF8MZ (X) - Inconsistent in testing between samples, data for Sample T30 are low.
- Q26QEC (X) - Inconsistent in testing between samples, data for Sample T29 are high.
- XQWM7U (X) - Inconsistent in testing between samples, data for Sample T29 are low, and data for Sample T30 are high. Also inconsistent in testing within both samples.

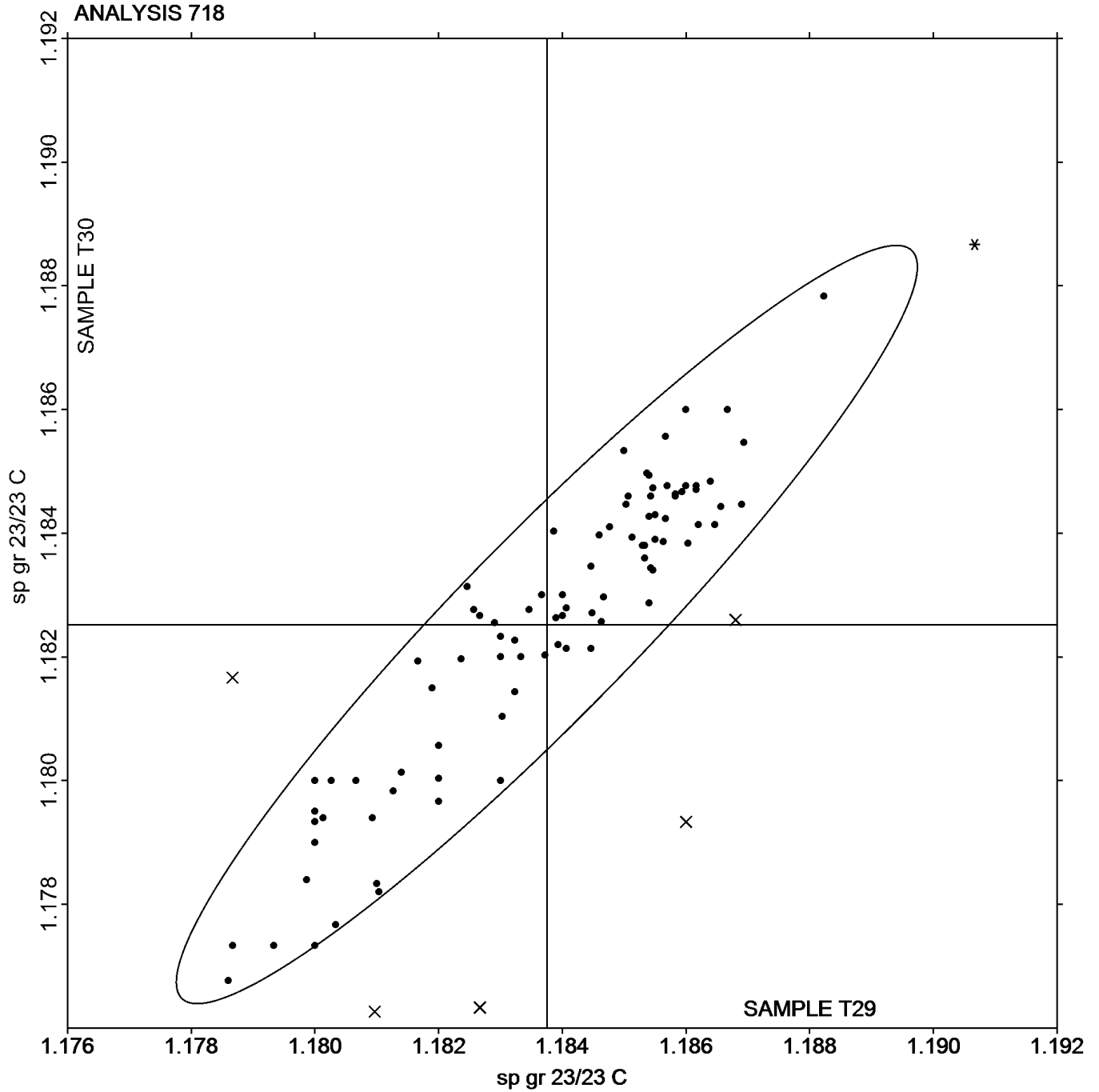
**Instrument Code List as Reported by the Labs**

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

Plastics Interlaboratory Testing Program  
Analysis 718  
Specific Gravity - sp gr 23/23 C

Grand Mean Sample T29: 1.1837 sp gr 23/23 C

Grand Mean Sample T30: 1.1825 sp gr 23/23 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 757**  
**Ash Content in Thermoplastics - Percent**

WebCode	Data Flag	Sample L29			Sample L30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
26TR8F		18.040	0.162	0.85	18.070	0.199	1.10	XX
2BLP6K		18.052	0.174	0.92	18.003	0.131	0.73	XX
4QMFQ8	X	20.985	3.107	16.33	18.760	0.889	4.94	XX
679FRD		18.071	0.193	1.02	18.108	0.237	1.32	XX
733E6L	X	19.523	1.645	8.64	19.498	1.626	9.04	XX
74NTZ4	*	18.145	0.267	1.40	17.845	-0.026	-0.15	XX
7Z9G79	*	18.390	0.512	2.69	18.105	0.234	1.30	XX
9BRWHK		17.700	-0.178	-0.93	17.665	-0.206	-1.15	XX
9RCKRF		17.735	-0.143	-0.75	17.730	-0.141	-0.79	XX
A4W7V3		17.890	0.012	0.06	17.890	0.019	0.10	XX
ADQEAK		18.125	0.247	1.30	17.905	0.034	0.19	XX
B4GKDJ	X	20.000	2.122	11.15	20.260	2.389	13.28	XX
BGDG4P		17.765	-0.113	-0.59	17.910	0.039	0.22	XX
C8ALKK	*	17.355	-0.523	-2.75	17.330	-0.541	-3.01	XX
D2DEG3		17.907	0.030	0.16	17.843	-0.029	-0.16	XX
DF67WJ		17.820	-0.058	-0.30	17.810	-0.061	-0.34	XX
E32AEV		17.845	-0.033	-0.17	17.890	0.019	0.10	XX
E4XQRR		17.545	-0.333	-1.75	17.620	-0.251	-1.40	XX
E9FNLA		17.780	-0.098	-0.51	17.935	0.064	0.35	XX
ER4A4C		17.870	-0.008	-0.04	17.905	0.034	0.19	XX
F4FYFM		17.655	-0.223	-1.17	17.680	-0.191	-1.06	XX
FMLB43		17.960	0.082	0.43	17.975	0.104	0.58	XX
G9FPW6	X	19.375	1.497	7.87	18.830	0.959	5.33	XX
G9W2B4		17.699	-0.179	-0.94	17.668	-0.203	-1.13	XX
GHTM7V		17.930	0.052	0.27	17.815	-0.056	-0.31	XX
GNVXYL		17.800	-0.078	-0.41	17.725	-0.146	-0.81	XX
GNWTJD		17.795	-0.083	-0.44	17.855	-0.016	-0.09	XX
HCKPVU		18.025	0.147	0.77	18.045	0.174	0.97	XX
HRXV8U		17.940	0.062	0.33	17.965	0.094	0.52	XX
J2FW3U		18.070	0.192	1.01	18.180	0.309	1.72	XX
JNQZ3G		17.840	-0.038	-0.20	17.850	-0.021	-0.12	XX
KJTWQN		17.530	-0.348	-1.83	17.700	-0.171	-0.95	XX

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

WebCode	Data Flag	Sample L29			Sample L30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
KUAPWP		17.782	-0.096	-0.50	17.744	-0.127	-0.71	XX
LFFZRB		17.855	-0.023	-0.12	17.770	-0.101	-0.56	XX
NDBY9H		17.875	-0.003	-0.01	17.775	-0.096	-0.54	XX
NNGFJW		18.000	0.122	0.64	18.000	0.129	0.72	XX
PEAKAV		17.765	-0.113	-0.59	17.800	-0.071	-0.40	XX
PGF8MZ		17.735	-0.143	-0.75	17.970	0.099	0.55	XX
PJFVRH		17.870	-0.008	-0.04	17.680	-0.191	-1.06	XX
Q8GKY2		17.860	-0.018	-0.09	17.840	-0.031	-0.17	XX
QGPEQ9		18.265	0.387	2.03	18.305	0.434	2.41	XX
QZYB9J		17.860	-0.018	-0.09	17.740	-0.131	-0.73	XX
RW362Z		18.020	0.142	0.75	17.910	0.039	0.22	XX
RYMR4G		17.900	0.022	0.12	17.944	0.073	0.41	XX
TBQJZL		17.790	-0.088	-0.46	17.870	-0.001	-0.01	XX
TDALNR		17.890	0.012	0.06	17.835	-0.036	-0.20	XX
TJNAP3	X	17.670	-0.208	-1.09	17.313	-0.558	-3.10	XX
U8DG68		17.700	-0.178	-0.93	17.585	-0.286	-1.59	XX
UL8L7J		17.760	-0.118	-0.62	17.770	-0.101	-0.56	XX
W388LB		17.630	-0.248	-1.30	17.780	-0.091	-0.51	XX
X9H8NY	*	18.359	0.481	2.53	18.361	0.490	2.72	XX
XBWMJD		17.870	-0.008	-0.04	17.780	-0.091	-0.51	XX
XFNRE4		17.900	0.022	0.12	17.900	0.029	0.16	XX
XQWM7U		17.795	-0.083	-0.44	17.975	0.104	0.58	XX
Y3GYMQ		18.039	0.161	0.85	17.943	0.072	0.40	XX
Y4DEYN		18.045	0.167	0.88	18.215	0.344	1.91	XX
Y8BXY2		17.870	-0.008	-0.04	17.815	-0.056	-0.31	XX
YWBCQG		17.810	-0.068	-0.36	17.850	-0.021	-0.12	XX

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

Summary Statistics	
Grand Means	
17.8778 Percent	17.8713 Percent
Stnd Dev Btwn Labs	
0.1903 Percent	0.1799 Percent
Statistics based on 53 of 58 reporting participants	

Sample L29: PBT &amp; Sample L30: PBT

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

4QMFQ8 (X) - Data for both samples are high. Also inconsistent in testing within Sample L29.

733E6L (X) - Data for both samples are high.

B4GKDJ (X) - Data for both samples are high.

G9FPW6 (X) - Data for both samples are high.

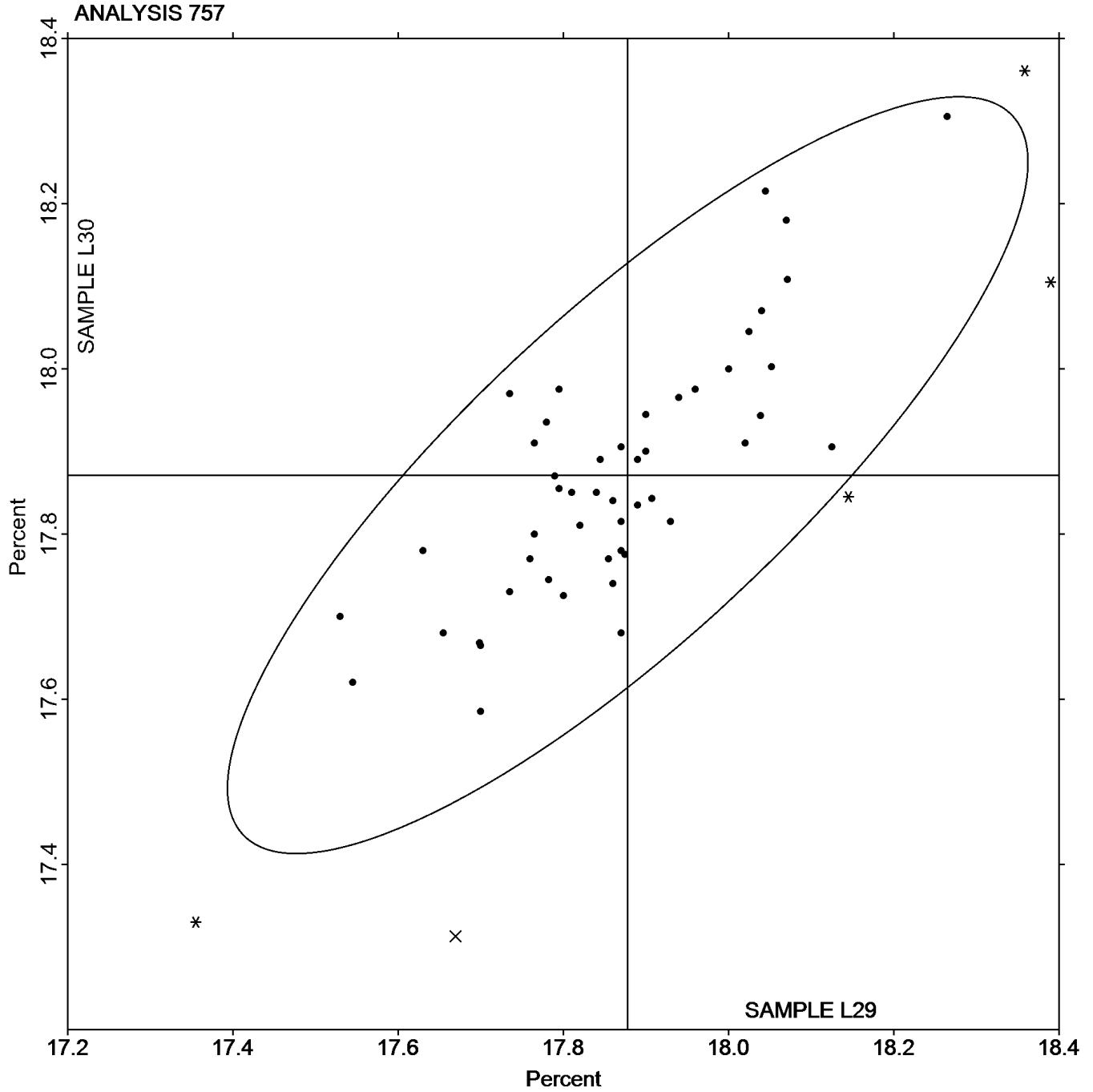
TJNAP3 (X) - Inconsistent in testing between samples, data for Sample L30 are low. Also inconsistent in testing within Sample L30.

Instrument Code List as Reported by the Labs
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(XX) - Instrument Codes not used by CTS at this time

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

Grand Mean Sample L29: 17.878 Percent      Grand Mean Sample L30: 17.871 Percent



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

WebCode	Data Flag	Sample B29			Sample B30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2C6YNR		2,927	713	0.88	3,274	1,048	1.29	IN
4VKVMA	M	No data reported for this sample			2,040	-186	-0.23	IM
74E9KL		1,946	-268	-0.33	1,982	-244	-0.30	IN
96XD7J		1,234	-980	-1.22	1,213	-1,013	-1.25	IN
98JGF2		1,626	-588	-0.73	1,617	-609	-0.75	IN
C2RDTL		3,177	963	1.20	3,023	797	0.98	XX
C3CZTH		3,873	1,659	2.06	3,702	1,476	1.82	LI
C89NAP		1,983	-231	-0.29	1,957	-269	-0.33	IN
DZ3G2Z		2,041	-173	-0.21	2,026	-200	-0.25	SH
FA7732		2,169	-45	-0.06	2,098	-128	-0.16	TH
J2FVEB		1,527	-687	-0.85	1,491	-735	-0.91	IN
JB24VR		1,684	-530	-0.66	1,663	-563	-0.69	MT
KDVR66		2,002	-213	-0.26	1,977	-249	-0.31	MT
LY9LPV		1,769	-445	-0.55	1,775	-451	-0.56	IN
NL63CF		1,608	-606	-0.75	1,535	-691	-0.85	UC
QCAQBH		967	-1,247	-1.55	950	-1,276	-1.57	IN
U8DG68		1,604	-610	-0.76	1,560	-666	-0.82	IN
VUCWRF		3,194	980	1.22	3,182	956	1.18	IN
X9H8NY		1,703	-511	-0.63	2,049	-177	-0.22	WZ
XAG6KE		3,481	1,267	1.57	3,426	1,200	1.48	XX
YTWCMT		2,965	751	0.93	3,170	944	1.16	IN
ZM9RHR		3,015	801	0.99	3,076	850	1.05	IN

Summary Statistics	
Grand Means	2,214.0 psi      2,225.9 psi
Stnd Dev Btwn Labs	805.4 psi      811.4 psi
Statistics based on 21 of 22 reporting participants	

Sample B29: LDPE & Sample B30: LDPE

**Comments on assigned Data Flags for Test #770**

4VKVMA (M) - Laboratory did not submit data for Sample B29.

**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

(SH) - Shimadzu

(TH) - Thwing Albert

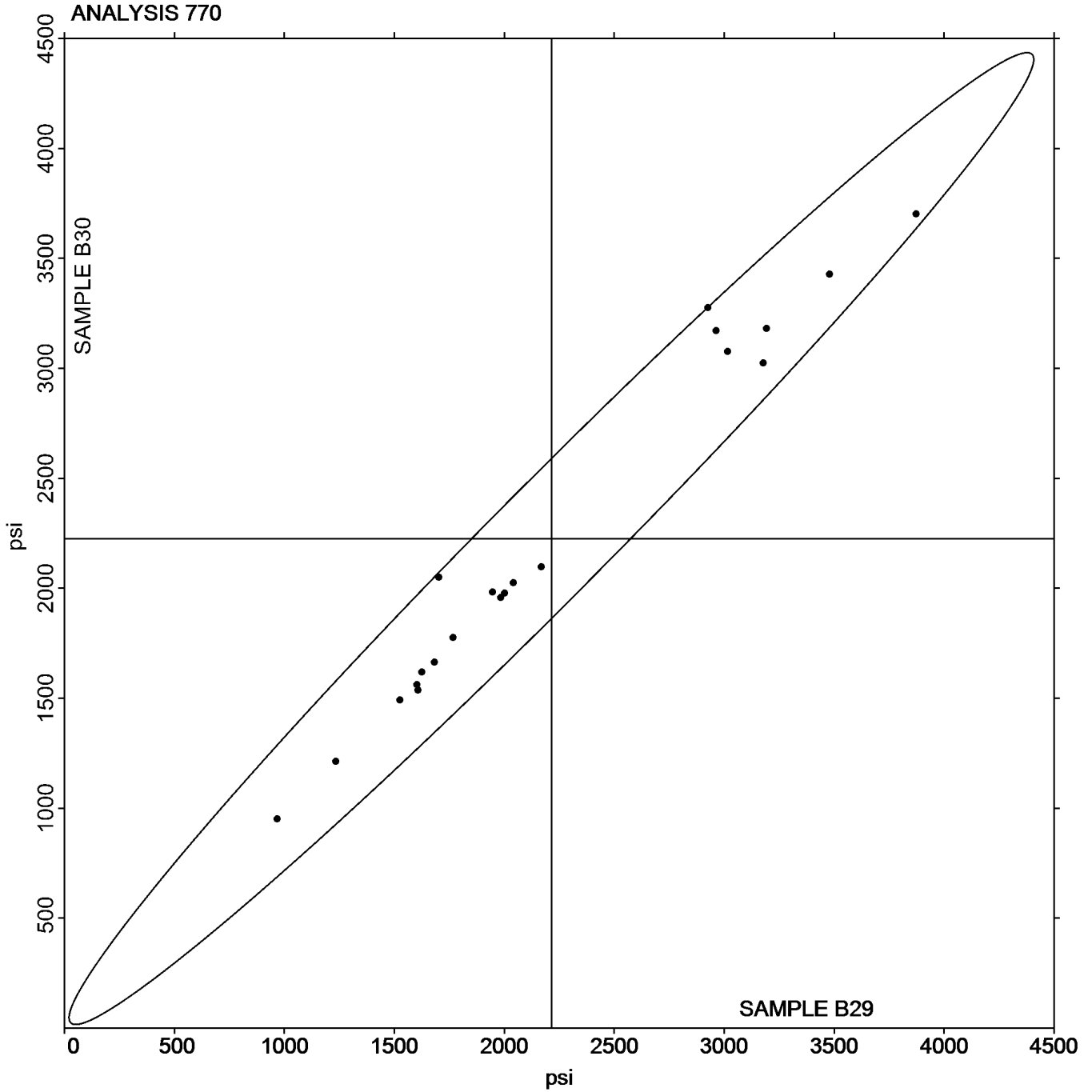
(UC) - United

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B29: 2,214.01 psi      Grand Mean Sample B30: 2,225.95 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 B29			Sample B30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2C6YNR		3,327	43	0.14	3,274	51	0.16	IN
4VKVMA		3,487	203	0.66	3,371	148	0.46	IM
74E9KL		3,394	109	0.36	3,445	223	0.69	IN
8JDFPT	*	2,763	-521	-1.71	2,501	-721	-2.23	SH
96XD7J		3,211	-73	-0.24	3,036	-187	-0.58	IN
98JGF2		3,320	36	0.12	3,191	-32	-0.10	IN
C2RDTL		3,177	-107	-0.35	3,015	-208	-0.64	XX
C3CZTH		3,873	588	1.93	3,701	478	1.47	LI
C89NAP		3,451	166	0.55	3,374	151	0.47	IN
DZ3G2Z		3,090	-195	-0.64	3,249	26	0.08	SH
FA7732		3,025	-260	-0.85	2,784	-439	-1.35	TH
FJY2A3		3,504	220	0.72	3,526	303	0.93	IN
G92DDR		2,939	-345	-1.13	2,889	-334	-1.03	IN
J2FVEB		3,092	-193	-0.63	2,988	-235	-0.73	IN
J8T6U6		3,883	599	1.96	3,862	639	1.97	WZ
JB24VR		3,524	240	0.79	3,384	161	0.50	MT
KDVR66		3,266	-19	-0.06	3,300	77	0.24	MT
LY9LPV		3,439	155	0.51	3,497	274	0.85	IN
M496UT		3,134	-151	-0.49	3,091	-132	-0.41	TO
NL63CF		3,136	-149	-0.49	3,072	-151	-0.47	UC
NNGFJW		3,329	45	0.15	3,259	36	0.11	XX
Q7WZFX		3,631	347	1.14	3,596	374	1.15	WZ
QCAQBH		3,157	-127	-0.42	3,208	-15	-0.04	IN
QGPEQ9		3,425	140	0.46	3,396	173	0.53	IN
U8DG68	*	2,318	-967	-3.17	2,287	-935	-2.89	IN
VUCWRF		3,194	-91	-0.30	3,182	-41	-0.13	IN
X9H8NY	X	2,981	-304	-1.00	3,400	177	0.55	WZ
XAG6KE		3,456	172	0.56	3,422	199	0.61	SH
XWJJNP		3,150	-134	-0.44	3,149	-74	-0.23	IN
YTWCMT		3,403	118	0.39	3,301	78	0.24	IN
ZM9RHR		3,435	150	0.49	3,335	112	0.35	IN



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

Summary Statistics	
Grand Means	
3,284.4 psi	3,222.8 psi
Std Dev Btwn Labs	
305.0 psi	324.0 psi
Statistics based on 30 of 31 reporting participants	

Sample B29: LDPE & Sample B30: LDPE

**Comments on assigned Data Flags for Test #771**

X9H8NY (X) - Inconsistent in testing between samples and inconsistent in testing within Sample B29.

**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

(TO) - Tinius Olsen

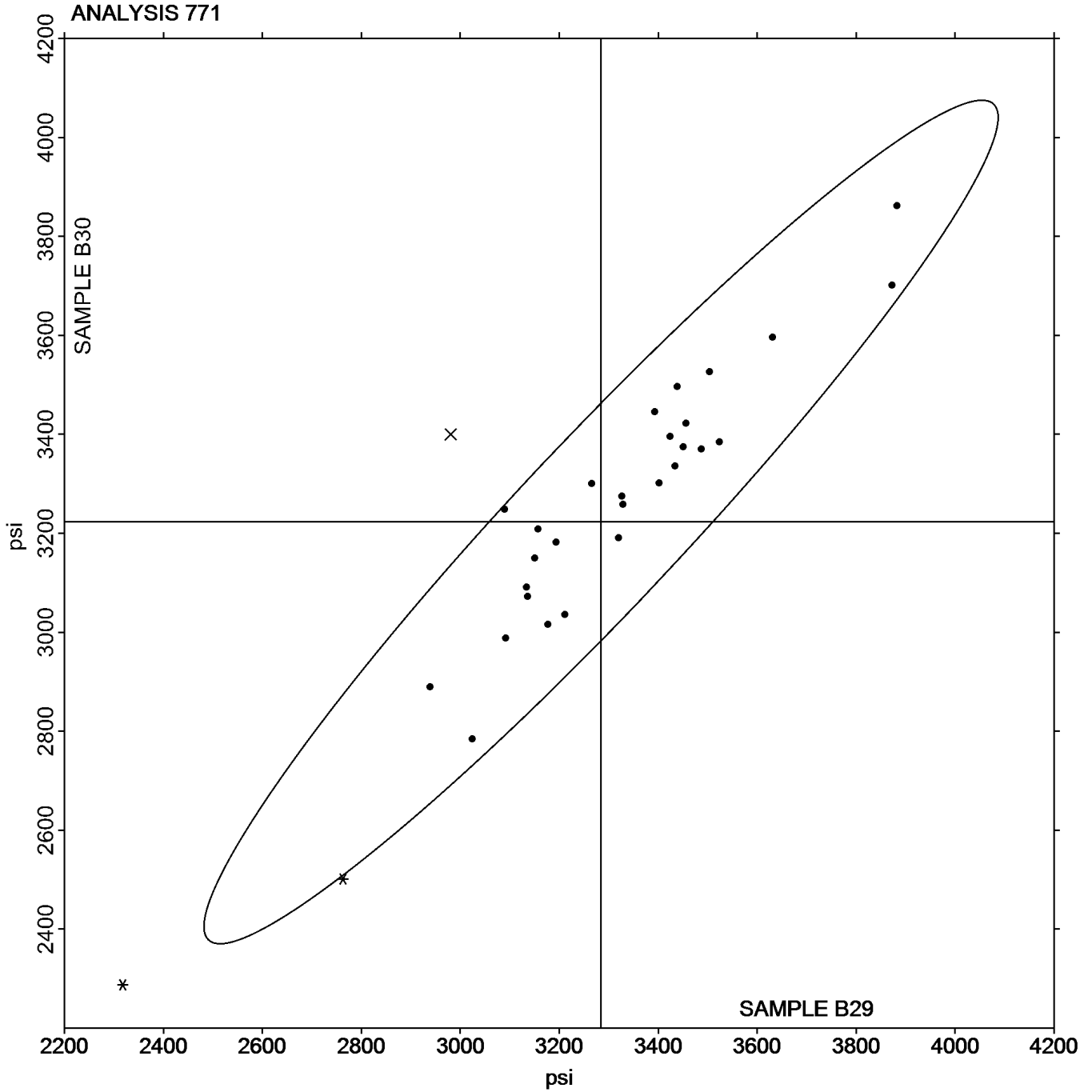
(UC) - United

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B29: 3,284.36 psi    Grand Mean Sample B30: 3,222.80 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 B29			Sample B30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2C6YNR	*	400.02	160.13	0.55	525.49	279.00	0.96	IN
4VKVMA	M	No data reported for this sample			164.91	-81.58	-0.28	IM
74E9KL		106.44	-133.44	-0.46	106.53	-139.96	-0.48	IN
96XD7J		5.15	-234.74	-0.81	5.53	-240.96	-0.83	IN
98JGF2		35.99	-203.90	-0.70	37.57	-208.92	-0.72	IN
C2RDTL	*	669.40	429.51	1.48	570.40	323.91	1.11	XX
C3CZTH		805.40	565.51	1.95	804.93	558.44	1.92	LI
C89NAP		100.51	-139.38	-0.48	103.12	-143.37	-0.49	IN
DZ3G2Z		110.99	-128.90	-0.44	110.66	-135.83	-0.47	SH
J2FVEB		12.53	-227.36	-0.78	12.15	-234.34	-0.80	IN
JB24VR		12.76	-227.13	-0.78	12.08	-234.42	-0.80	MT
KDVR66		111.36	-128.53	-0.44	111.98	-134.51	-0.46	MT
LY9LPV		21.95	-217.94	-0.75	21.54	-224.95	-0.77	IN
NL63CF		11.92	-227.97	-0.79	10.83	-235.66	-0.81	UC
QCAQBH		5.19	-234.70	-0.81	5.49	-241.01	-0.83	IN
U8DG68		18.14	-221.75	-0.76	18.41	-228.08	-0.78	IN
VUCWRF		689.03	449.14	1.55	696.52	450.03	1.54	IN
X9H8NY		64.66	-175.23	-0.60	65.02	-181.47	-0.62	WZ
XAG6KE		793.10	553.21	1.91	778.30	531.81	1.82	SH
YTWCMT		399.95	160.06	0.55	481.45	234.96	0.81	IN
ZM9RHR		423.28	183.39	0.63	451.84	205.35	0.70	IN

Summary Statistics			
Grand Means	239.889	Percent	246.492
			Percent
Std Dev Btwn Labs	290.345	Percent	291.527
			Percent
Statistics based on 20 of 21 reporting participants			

Sample B29: LDPE & Sample B30: LDPE

**Comments on assigned Data Flags for Test #772**

4VKVMA (M) - Laboratory did not submit data for Sample B29.

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

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Note: Results for test 772 exhibit higher variability than historical averages. Participant's should use caution when interpreting results.

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

(IM) - Instru-Met Instruments

(IN) - Instron

(LI) - Lloyd Instruments

(MT) - MTS/Sintech

(SH) - Shimadzu

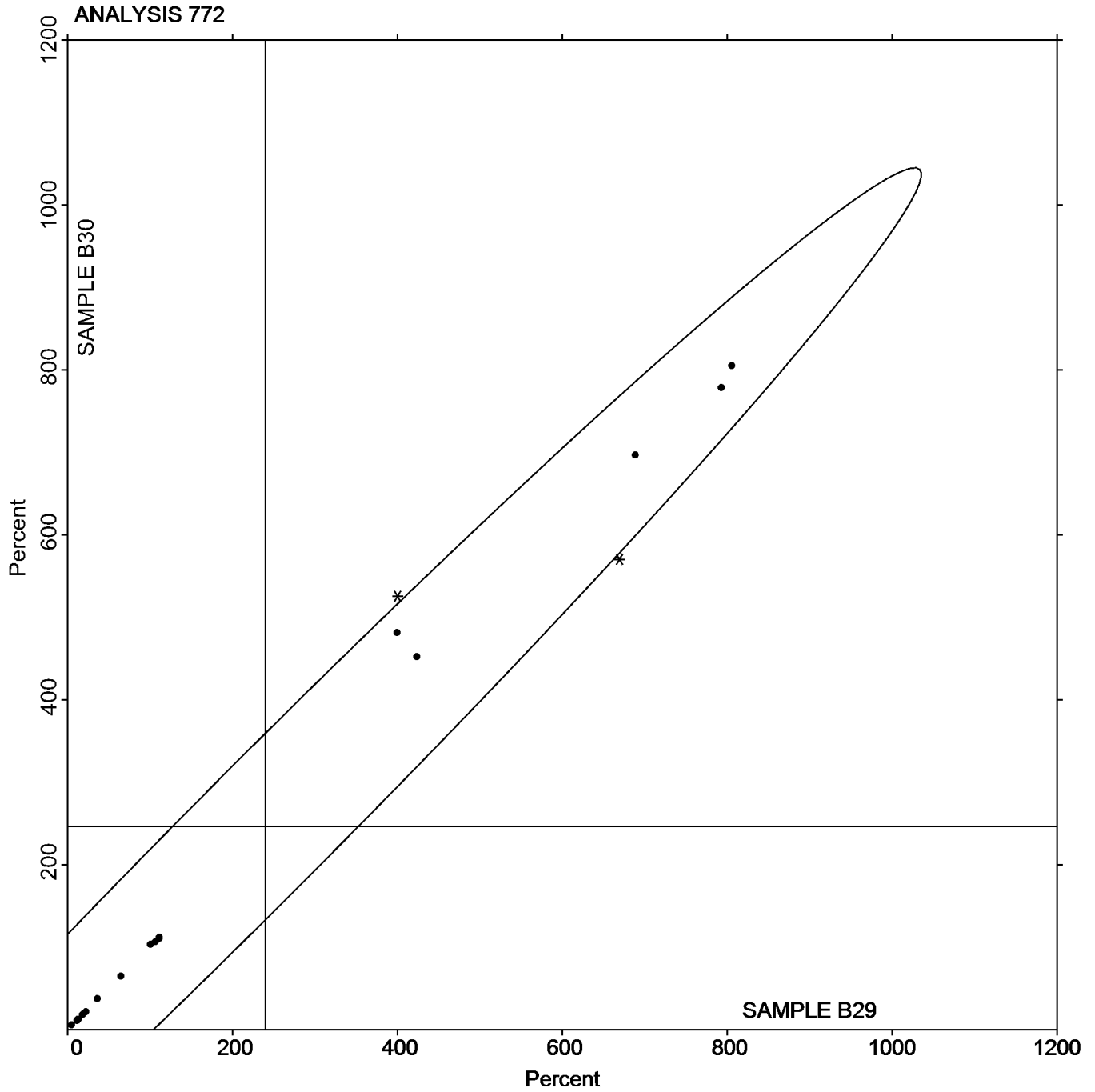
(UC) - United

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B29: 239.89 Percent      Grand Mean Sample B30: 246.49 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 B29			Sample B30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2C6YNR		529.8	-116.1	-0.94	525.5	-120.1	-0.93	IN
4VKVMA		780.3	134.4	1.09	752.5	106.9	0.83	IM
74E9KL		698.6	52.7	0.43	697.3	51.7	0.40	IN
8JDFPT		756.0	110.1	0.89	683.8	38.2	0.30	SH
96XD7J	X	559.4	-86.6	-0.70	1,014.2	368.6	2.85	IN
98JGF2		816.4	170.5	1.38	801.2	155.6	1.20	IN
C2RDTL	*	671.2	25.3	0.20	574.4	-71.2	-0.55	XX
C3CZTH		805.4	159.5	1.29	805.4	159.8	1.24	LI
C89NAP		560.1	-85.8	-0.69	558.2	-87.4	-0.68	IN
DZ3G2Z		714.9	68.9	0.56	772.9	127.3	0.98	SH
FA7732		468.3	-177.6	-1.44	451.6	-194.0	-1.50	TH
FJY2A3		756.0	110.1	0.89	784.4	138.8	1.07	IN
G92DDR		436.0	-209.9	-1.70	451.0	-194.6	-1.50	IN
J2FVEB		700.8	54.9	0.44	702.8	57.2	0.44	IN
J8T6U6		518.7	-127.2	-1.03	512.2	-133.3	-1.03	WZ
JB24VR		531.1	-114.8	-0.93	511.1	-134.5	-1.04	MT
KDVR66		665.1	19.2	0.16	699.1	53.5	0.41	MT
LY9LPV		680.2	34.3	0.28	720.8	75.2	0.58	IN
M496UT		705.5	59.6	0.48	724.8	79.2	0.61	TO
NL63CF		564.2	-81.7	-0.66	568.0	-77.6	-0.60	XX
NNGFJW		798.5	152.6	1.23	801.0	155.4	1.20	XX
Q7WZFX		516.4	-129.5	-1.05	529.4	-116.2	-0.90	WZ
QCAQBH		788.8	142.9	1.16	842.9	197.3	1.53	IN
QGPEQ9		796.0	150.1	1.21	822.8	177.2	1.37	IN
U8DG68		413.1	-232.8	-1.88	425.6	-220.0	-1.70	IN
VUCWRF		689.1	43.2	0.35	696.6	51.0	0.39	IN
X9H8NY		543.0	-102.9	-0.83	524.0	-121.6	-0.94	WZ
XAG6KE		798.1	152.2	1.23	779.5	133.9	1.04	XX
XWJJNP		594.0	-52.0	-0.42	584.5	-61.0	-0.47	IN
YTWCMT		526.3	-119.6	-0.97	526.5	-119.0	-0.92	IN
ZM9RHR		555.8	-90.2	-0.73	536.9	-108.6	-0.84	IN

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

Summary Statistics			
Grand Means	645.92	Percent	645.56
			Percent
Stnd Dev Btwn Labs	123.67	Percent	129.29
			Percent
Statistics based on 30 of 31 reporting participants			

Sample B29: LDPE & Sample B30: LDPE

**Comments on assigned Data Flags for Test #773**

96XD7J (X) - Inconsistent in testing between samples, data for Sample B30 are high. Also inconsistent in testing within Sample B30.

**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

(TO) - Tinius Olsen

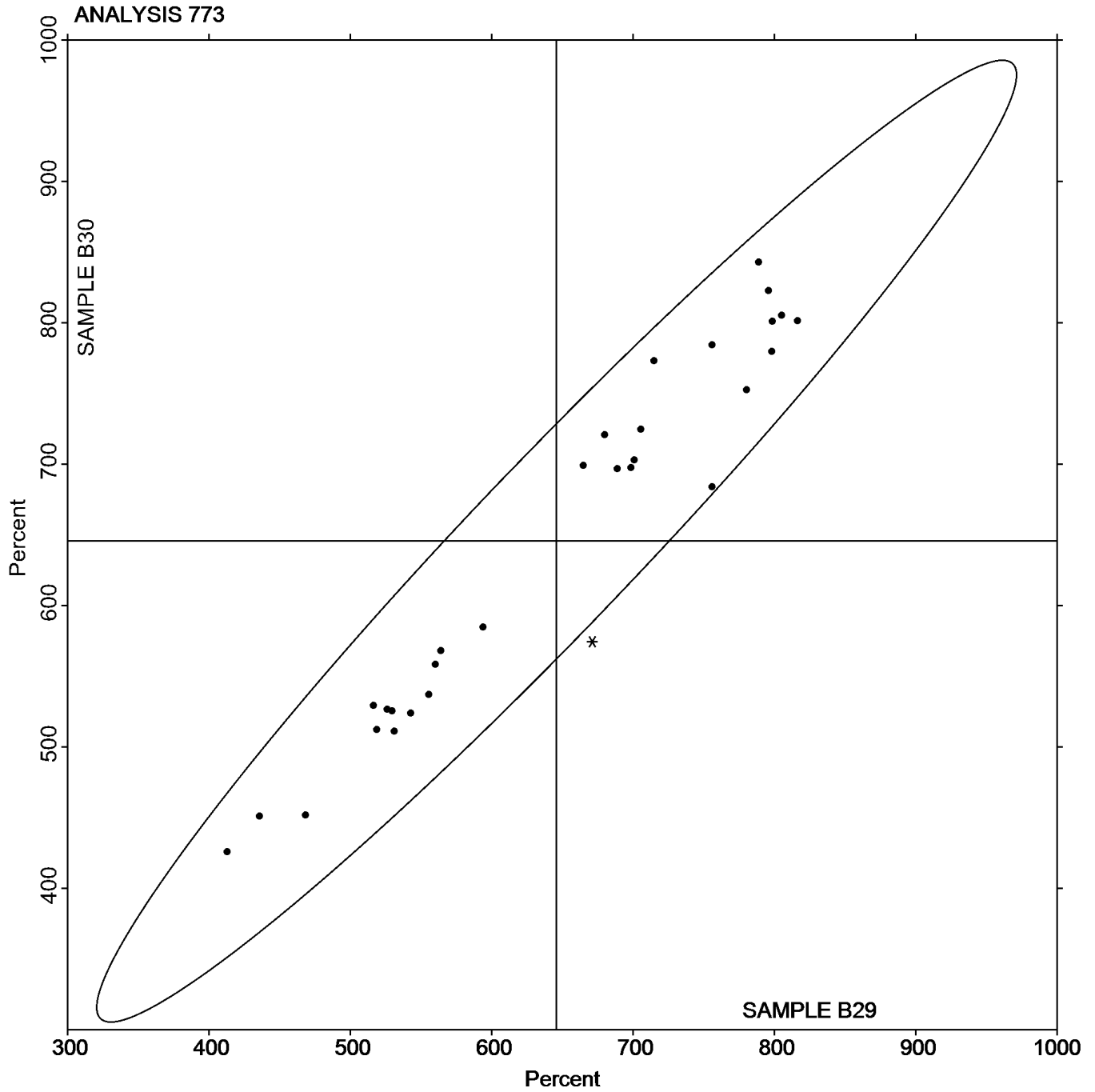
(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B29: 645.92 Percent

Grand Mean Sample B30: 645.56 Percent



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



## Analysis 774

## Thickness of Film Tensile Samples - mils

WebCode	Data Flag	Sample B29			Sample B30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2C6YNR		4.2460	-0.0287	-0.20	4.3080	0.0446	0.32	XX
4VKVMA		4.2640	-0.0107	-0.07	4.2820	0.0186	0.13	XX
74E9KL	*	4.4843	0.2097	1.43	4.3072	0.0438	0.32	XX
8JDFPT		4.3110	0.0363	0.25	4.2087	-0.0547	-0.39	XX
96XD7J		4.4017	0.1270	0.86	4.4135	0.1501	1.08	XX
98JGF2		4.2954	0.0207	0.14	4.2914	0.0280	0.20	XX
C2RDTL		4.1576	-0.1171	-0.80	4.1969	-0.0665	-0.48	XX
C3CZTH	*	3.8520	-0.4226	-2.88	3.9146	-0.3487	-2.52	XX
C89NAP		4.2450	-0.0297	-0.20	4.2570	-0.0064	-0.05	XX
DZ3G2Z		4.4173	0.1426	0.97	4.3465	0.0831	0.60	XX
FA7732		4.1250	-0.1497	-1.02	4.0550	-0.2084	-1.50	XX
FJY2A3		4.3030	0.0283	0.19	4.2640	0.0006	0.00	XX
G92DDR		4.3800	0.1053	0.72	4.3000	0.0366	0.26	XX
J2FVEB		4.4800	0.2053	1.40	4.4200	0.1566	1.13	XX
J8T6U6		3.9987	-0.2760	-1.88	4.0037	-0.2596	-1.87	XX
JB24VR		4.3350	0.0603	0.41	4.4450	0.1816	1.31	XX
KDVR66		4.4000	0.1253	0.85	4.3800	0.1166	0.84	XX
LY9LPV		4.1890	-0.0857	-0.58	4.0866	-0.1768	-1.27	XX
M496UT		4.4470	0.1723	1.17	4.4750	0.2116	1.53	XX
NL63CF		4.1300	-0.1447	-0.98	4.0300	-0.2334	-1.68	XX
NNGFJW		4.2420	-0.0327	-0.22	4.3220	0.0586	0.42	XX
PXYLQK		4.2100	-0.0647	-0.44	4.2480	-0.0154	-0.11	XX
Q7WZFX		4.0131	-0.2616	-1.78	4.0817	-0.1816	-1.31	XX
QCAQBH		4.2166	-0.0581	-0.40	4.2442	-0.0192	-0.14	XX
QGPEQ9		4.3100	0.0353	0.24	4.3300	0.0666	0.48	XX
U8DG68		4.5200	0.2453	1.67	4.5200	0.2566	1.85	XX
VUCWRF		4.3140	0.0393	0.27	4.3220	0.0586	0.42	XX
X9H8NY		4.3622	0.0875	0.60	4.3189	0.0555	0.40	XX
XAG6KE		4.3504	0.0757	0.52	4.3189	0.0555	0.40	XX
XWJJNP		4.3500	0.0753	0.51	4.3350	0.0716	0.52	XX
YTWCMT		4.2830	0.0083	0.06	4.2380	-0.0254	-0.18	XX
ZCY26A		4.1200	-0.1547	-1.05	4.1420	-0.1214	-0.88	XX

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

WebCode	Data Flag	Sample B29			Sample B30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
ZM9RHR		4.3110	0.0363	0.25	4.2860	0.0226	0.16	XX

Summary Statistics	
Grand Means	
4.27467 mils	4.26339 mils
Std Dev Btwn Labs	
0.14691 mils	0.13866 mils
Statistics based on 33 of 33 reporting participants	

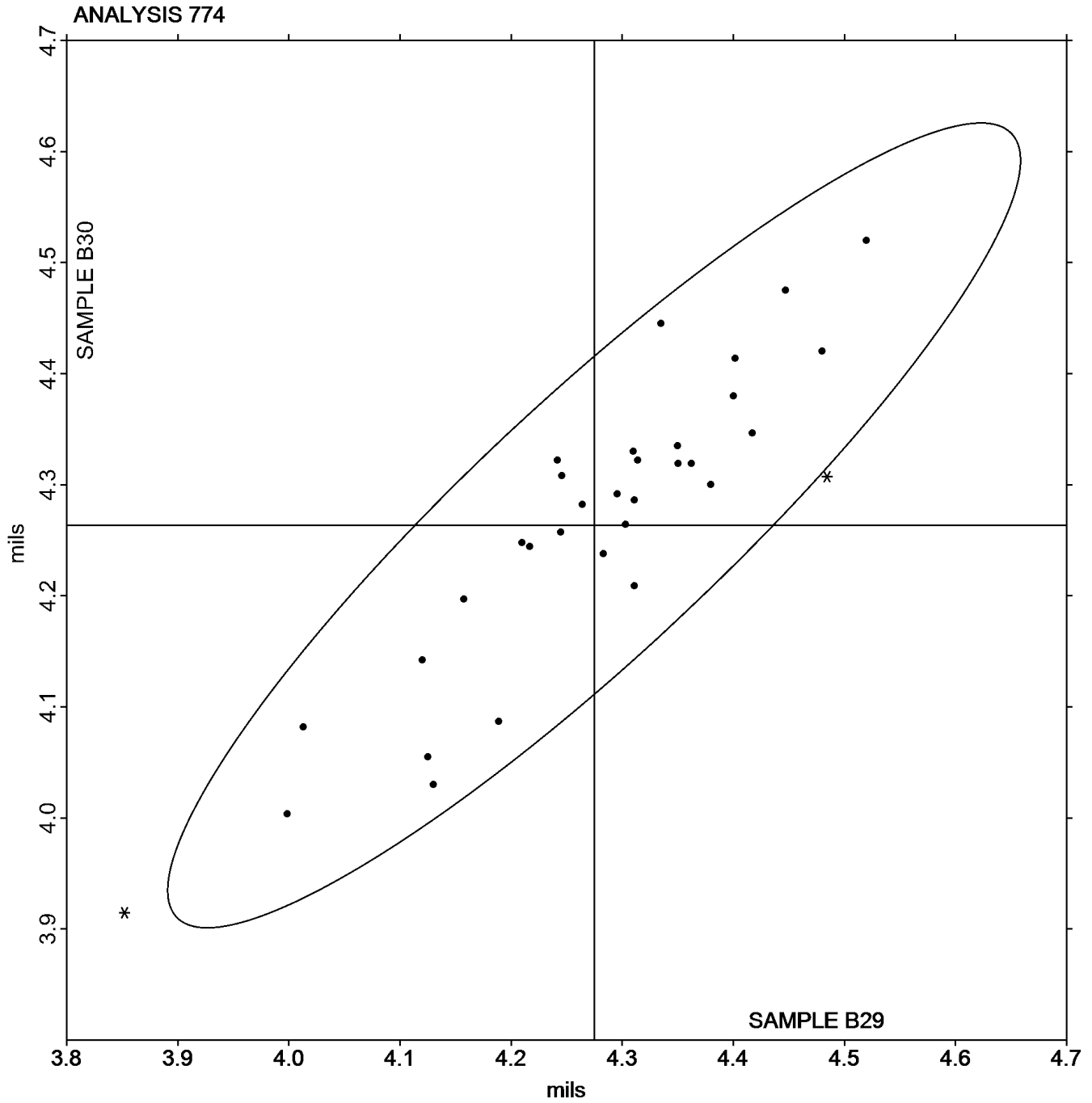
Sample B29: LDPE & Sample B30: LDPE

**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 B29: 4.2747 mils      Grand Mean Sample B30: 4.2634 mils



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 775**  
**Secant Modulus at 1% Strain - psi**

WebCode	Data Flag	Sample B29			Sample B30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2C6YNR		28,561	-1,495	-0.47	28,696	-648	-0.25	IN
4VKVMA		30,565	509	0.16	30,451	1,106	0.43	IM
74E9KL		34,536	4,480	1.42	32,962	3,618	1.41	IN
98JGF2		32,390	2,334	0.74	31,745	2,400	0.93	IN
C2RDTL		23,901	-6,155	-1.95	25,209	-4,136	-1.61	XX
C3CZTH		32,162	2,106	0.67	29,384	39	0.02	LI
C89NAP		30,391	335	0.11	30,353	1,008	0.39	IN
DZ3G2Z		32,644	2,588	0.82	31,215	1,870	0.73	SH
FA7732		34,799	4,743	1.50	34,857	5,512	2.14	TH
G92DDR		27,100	-2,956	-0.94	25,770	-3,575	-1.39	IN
J2FVEB		28,287	-1,769	-0.56	28,878	-466	-0.18	IN
JB24VR		29,966	-91	-0.03	29,870	525	0.20	MT
QCAQBH		26,008	-4,048	-1.28	25,430	-3,915	-1.52	IN
QGPEQ9		29,780	-276	-0.09	29,033	-312	-0.12	IN
U8DG68		29,214	-842	-0.27	31,070	1,725	0.67	IN
VUCWRF		25,973	-4,084	-1.30	26,568	-2,777	-1.08	IN
X9H8NY		36,245	6,189	1.96	30,560	1,215	0.47	WZ
XAG6KE		28,283	-1,774	-0.56	30,574	1,230	0.48	XX
YTWCMT		31,152	1,095	0.35	26,359	-2,986	-1.16	IN
ZM9RHR		29,169	-887	-0.28	27,911	-1,433	-0.56	IN

Summary Statistics	
Grand Means	30,056.4 psi      29,344.7 psi
Std Dev Btwn Labs	3,152.3 psi      2,573.6 psi
Statistics based on 20 of 20 reporting participants	

Sample B29: LDPE & Sample B30: LDPE

**Plastics Interlaboratory Testing Program**  
**Analysis 775**  
**Secant Modulus at 1% Strain - 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

(SH) - Shimadzu

(TH) - Thwing Albert

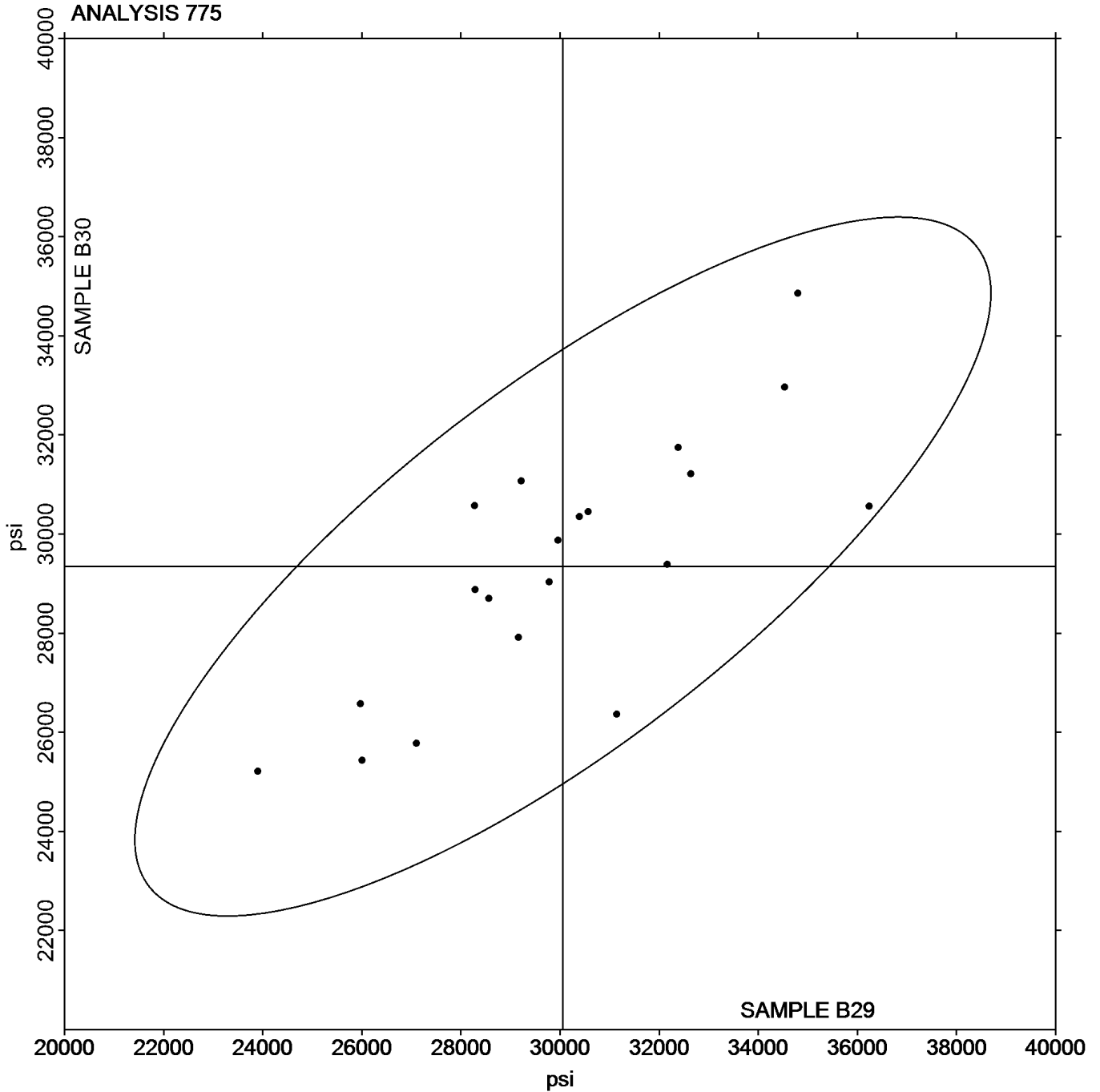
(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 775  
Secant Modulus at 1% Strain - psi

Grand Mean Sample B29: 30,056.36 psi

Grand Mean Sample B30: 29,344.67 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 776**  
**Secant Modulus at 2% Strain - psi**

WebCode	Data Flag	Sample B29			Sample B30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2C6YNR		25,560	-1,013	-0.44	25,470	-368	-0.19	IN
4VKVMA		26,197	-376	-0.16	26,146	308	0.16	IM
74E9KL		27,741	1,168	0.51	27,208	1,369	0.69	XX
98JGF2		28,149	1,576	0.69	27,586	1,748	0.89	IN
C2RDTL	X	64,408	37,835	16.50	64,535	38,697	19.62	XX
C3CZTH		27,420	847	0.37	24,974	-864	-0.44	LI
DZ3G2Z		26,710	137	0.06	26,189	351	0.18	SH
FA7732		29,288	2,715	1.18	29,409	3,570	1.81	TH
G92DDR		23,780	-2,793	-1.22	22,480	-3,358	-1.70	IN
J2FVEB		25,103	-1,470	-0.64	25,508	-331	-0.17	IN
JB24VR		26,189	-384	-0.17	26,202	363	0.18	MT
QGPEQ9		25,528	-1,045	-0.46	24,870	-968	-0.49	IN
U8DG68		24,868	-1,706	-0.74	26,678	840	0.43	IN
VUCWRF		21,459	-5,114	-2.23	22,083	-3,755	-1.90	IN
X9H8NY		28,848	2,275	0.99	24,410	-1,428	-0.72	IN
XAG6KE		28,138	1,565	0.68	29,298	3,460	1.75	XX
YTWCMT		31,261	4,688	2.04	26,305	467	0.24	IN
ZM9RHR		25,504	-1,069	-0.47	24,435	-1,403	-0.71	IN

Summary Statistics	
Grand Means	26,573.0 psi      25,838.3 psi
Std Dev Btwn Labs	2,293.1 psi      1,972.3 psi
Statistics based on 17 of 18 reporting participants	

Sample B29: LDPE & Sample B30: LDPE

**Comments on assigned Data Flags for Test #776**

C2RDTL (X) - Data for both samples are high. Also inconsistent in testing within both samples.

Analysis 776

Secant Modulus at 2% Strain - 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

(SH) - Shimadzu

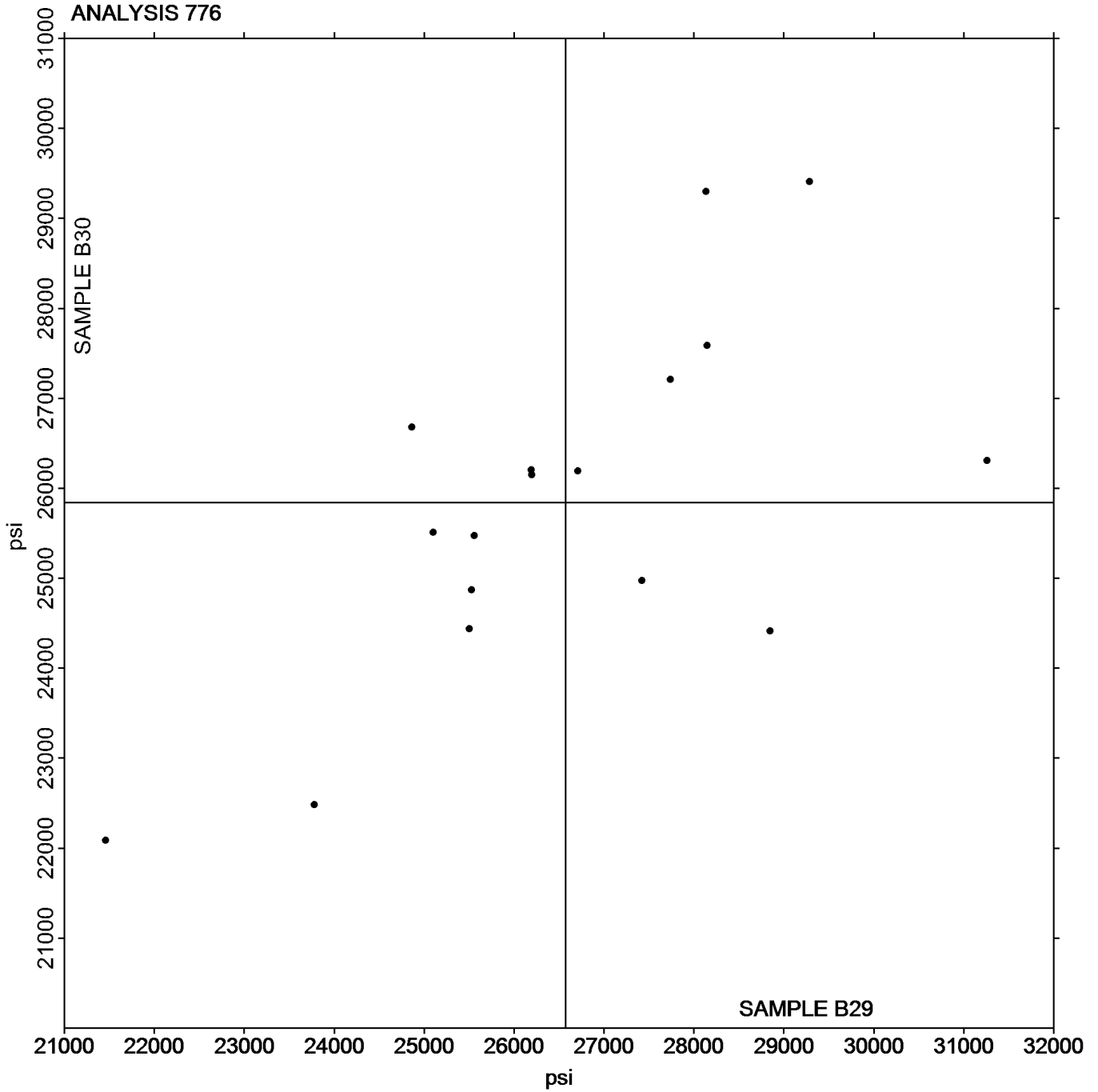
(TH) - Thwing Albert

(XX) - Instrument manufacturer not specified by lab



Plastics Interlaboratory Testing Program  
Analysis 776  
Secant Modulus at 2% Strain - psi

Grand Mean Sample B29: 26,573.05 psi      Grand Mean Sample B30: 25,838.28 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 P29			Sample P30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
6U2FLD		0.1368	0.0243	0.91	0.1376	0.0218	0.60	TH
7JHDLX		0.1188	0.0063	0.24	0.1196	0.0038	0.10	MI
8JDFPT		0.1200	0.0075	0.28	0.1420	0.0262	0.73	SA
ACWUHE		0.0820	-0.0305	-1.14	0.0808	-0.0350	-0.97	RD
C2RDTL		0.1174	0.0049	0.18	0.1142	-0.0016	-0.05	RD
C89NAP		0.0884	-0.0241	-0.90	0.0892	-0.0266	-0.74	TH
FA7732		0.1102	-0.0023	-0.09	0.1136	-0.0022	-0.06	TH
FUP9XZ		0.0520	-0.0605	-2.26	0.0640	-0.0518	-1.44	IG
H3XMT2		0.1115	-0.0010	-0.04	0.1123	-0.0035	-0.10	IG
HCKPVU		0.1042	-0.0083	-0.31	0.1386	0.0228	0.63	IP
J2FVEB		0.1042	-0.0083	-0.31	0.1038	-0.0120	-0.33	TN
J8T6U6		0.1054	-0.0071	-0.26	0.0958	-0.0200	-0.56	TH
JB24VR		0.1632	0.0507	1.90	0.1596	0.0438	1.21	MI
KDVR66		0.1248	0.0123	0.46	0.1154	-0.0004	-0.01	MI
L2HLU3	*	0.1652	0.0527	1.97	0.2210	0.1052	2.92	MI
NNGFJW		0.0960	-0.0165	-0.62	0.0880	-0.0278	-0.77	KA
Q7WZFX		0.1094	-0.0031	-0.12	0.1028	-0.0130	-0.36	RD
QCAQBH		0.1180	0.0055	0.21	0.1120	-0.0038	-0.11	TL
QGPEQ9		0.1514	0.0389	1.46	0.1644	0.0486	1.35	IS
U8DG68		0.1214	0.0089	0.33	0.1210	0.0052	0.14	TH
X9H8NY		0.0760	-0.0365	-1.36	0.0540	-0.0618	-1.71	XX
YTWCMT		0.0982	-0.0143	-0.53	0.0986	-0.0172	-0.48	TM

Summary Statistics			
Grand Means	0.11248	COF	0.11583
			COF
Std Dev Btwn Labs	0.02674	COF	0.03607
			COF
Statistics based on 22 of 22 reporting participants			

Sample P29: LDPE & Sample P30: LDPE

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

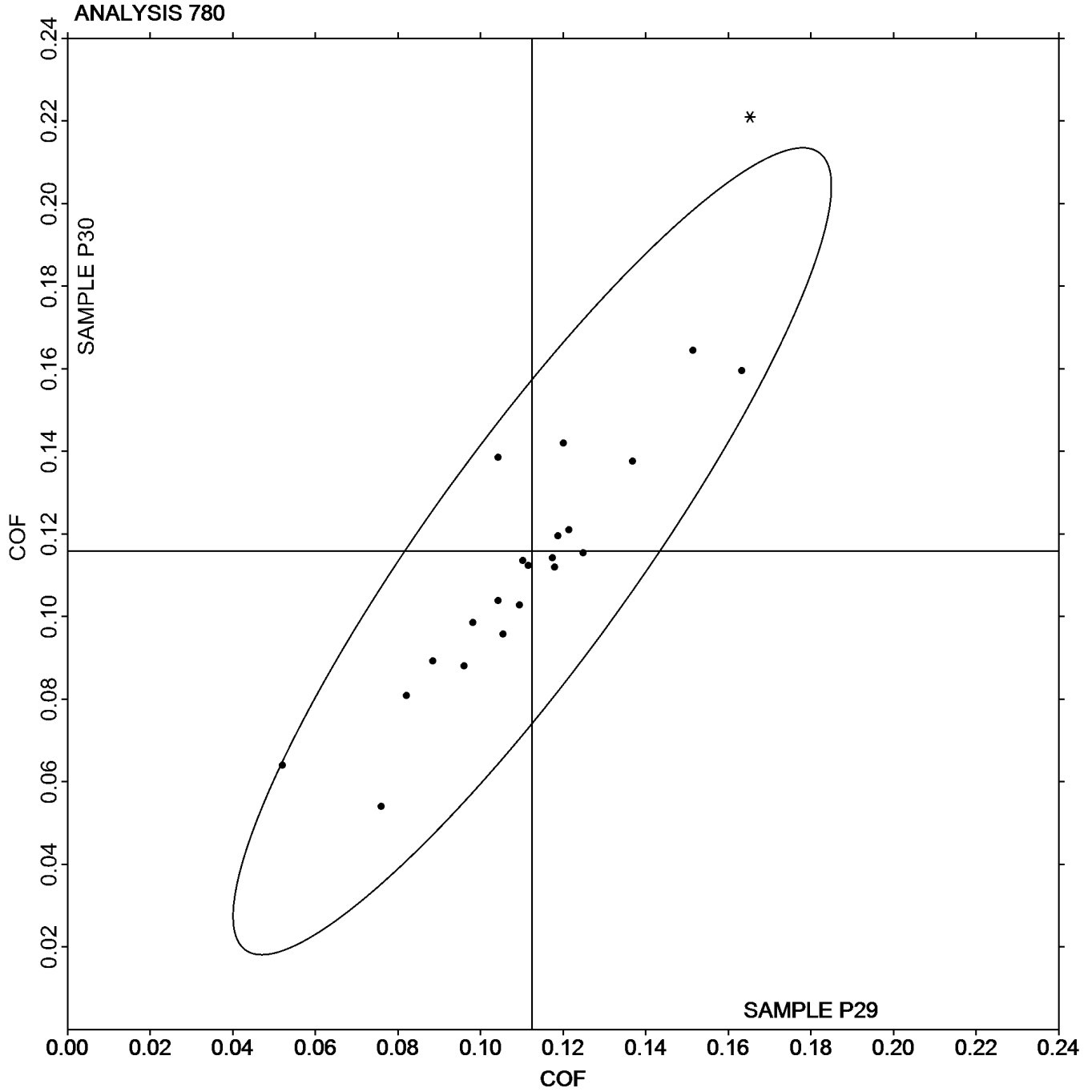
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**Instrument Code List as Reported by the Labs**

(IG) - Instron	(IP) - Instron 4000 Series
(IS) - Instron 5000 Series	(KA) - Kayeness Inc.
(MI) - MTS Insight	(RD) - RDM CF
(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	(XX) - Instrument make/model not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 780  
Coefficient of Static Friction

Grand Mean Sample P29: 0.11248 COF      Grand Mean Sample P30: 0.11583 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 P29			Sample P30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
6U2FLD		0.0640	-0.0182	-0.84	0.0646	-0.0171	-0.71	TH
7JHDLX		0.0916	0.0094	0.43	0.0830	0.0013	0.06	MI
8JDFPT		0.0700	-0.0122	-0.56	0.0800	-0.0017	-0.07	SA
ACWUHE		0.0772	-0.0050	-0.23	0.0754	-0.0063	-0.26	RD
C2RDTL		0.1138	0.0316	1.46	0.1080	0.0263	1.10	RD
C89NAP		0.0826	0.0004	0.02	0.0912	0.0095	0.40	TH
FA7732		0.0756	-0.0066	-0.31	0.0750	-0.0067	-0.28	TH
FUP9XZ	*	0.0240	-0.0582	-2.69	0.0150	-0.0667	-2.78	IG
H3XMT2		0.0918	0.0096	0.44	0.1012	0.0196	0.82	IG
HCKPVU	*	0.0808	-0.0014	-0.07	0.1148	0.0331	1.38	IP
J2FVEB		0.0666	-0.0156	-0.72	0.0702	-0.0115	-0.48	TN
J8T6U6		0.0930	0.0108	0.50	0.0888	0.0071	0.30	TH
JB24VR		0.0960	0.0138	0.64	0.0886	0.0069	0.29	MI
KDVR66		0.0982	0.0160	0.74	0.0962	0.0145	0.61	MI
L2HLU3	X	0.1108	0.0286	1.32	0.1786	0.0969	4.04	MI
NNGFJW		0.0960	0.0138	0.64	0.0880	0.0063	0.26	KA
Q7WZFX		0.0836	0.0014	0.06	0.0810	-0.0007	-0.03	RD
QCAQBH		0.1000	0.0178	0.82	0.0880	0.0063	0.26	TL
QGPEQ9		0.1212	0.0390	1.80	0.1112	0.0295	1.23	IS
U8DG68		0.0828	0.0006	0.03	0.0918	0.0101	0.42	TH
X9H8NY		0.0460	-0.0362	-1.67	0.0280	-0.0537	-2.24	XX
YTWCMT		0.0716	-0.0106	-0.49	0.0750	-0.0067	-0.28	TM

Summary Statistics			
Grand Means	0.08221	COF	0.08167
			COF
Stnd Dev Btwn Labs	0.02165	COF	0.02399
			COF
Statistics based on 21 of 22 reporting participants			

Sample P29: LDPE & Sample P30: LDPE

**Comments on assigned Data Flags for Test #781**

L2HLU3 (X) - Inconsistent in testing between samples, data for Sample P30 are high.

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

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

(IG) - Instron

(IS) - Instron 5000 Series

(MI) - MTS Insight

(SA) - Shimadzu Autograph

(TL) - TMI #32-90

(TN) - TMI #32-06

(IP) - Instron 4000 Series

(KA) - Kayeness Inc.

(RD) - RDM CF

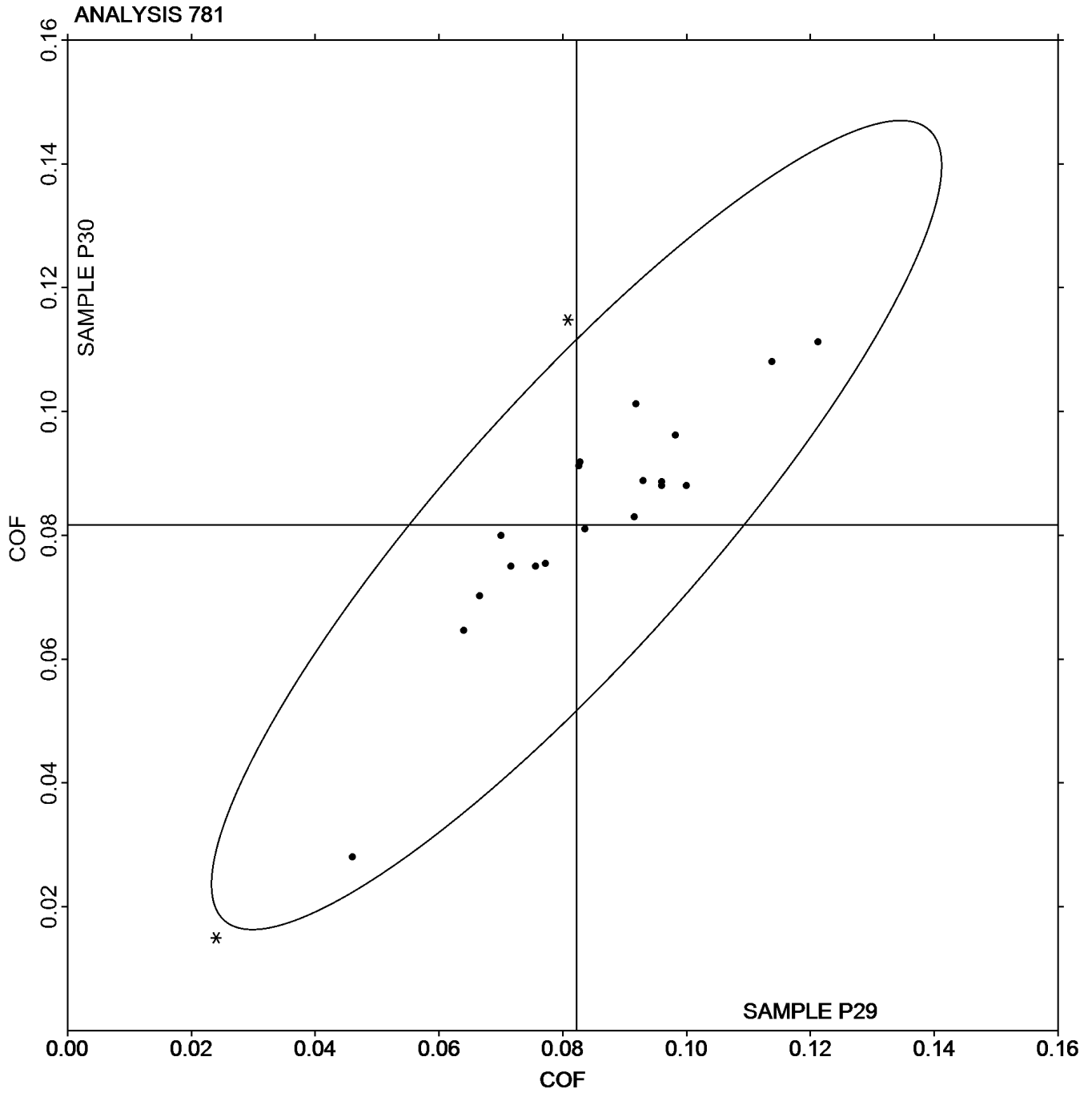
(TH) - Thwing Albert Friction/Peel Tester Model 225-1

(TM) - TMI Slip and Friction Tester

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

Plastics Interlaboratory Testing Program  
Analysis 781  
Coefficient of Kinetic Friction

Grand Mean Sample P29: 0.08221 COF      Grand Mean Sample P30: 0.08167 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 Q29			Sample Q30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
4VKVMA		605.1	1.4	0.02	625.6	-0.7	-0.01	TE
7JHDLX		574.7	-29.1	-0.41	567.7	-58.6	-1.03	TE
8JDFPT		623.3	19.5	0.28	618.4	-7.9	-0.14	LO
96XD7J		555.6	-48.2	-0.68	578.5	-47.8	-0.84	SZ
9E7ETA		488.5	-115.3	-1.63	558.6	-67.7	-1.19	TE
C89NAP		618.9	15.1	0.21	585.3	-41.0	-0.72	TE
G92DDR		631.6	27.8	0.39	616.2	-10.1	-0.18	TN
J2FVEB		601.6	-2.2	-0.03	666.1	39.8	0.70	TM
JB24VR		523.7	-80.1	-1.13	577.6	-48.7	-0.85	TE
KDVR66		558.1	-45.7	-0.65	620.0	-6.3	-0.11	TA
QCAQBH		578.3	-25.5	-0.36	648.0	21.7	0.38	TM
QGPEQ9		685.3	81.5	1.16	687.1	60.8	1.07	TE
WMCV7F		724.3	120.5	1.71	735.4	109.1	1.92	TA
X9H8NY		506.2	-97.6	-1.38	545.6	-80.7	-1.42	TA
YTWCMT		667.5	63.8	0.90	680.3	54.1	0.95	TE
ZM9RHR		717.6	113.8	1.61	709.8	83.6	1.47	TM

Summary Statistics	
Grand Means	603.76 grams-force
Std Dev Btwn Labs	70.58 grams-force
	626.26 grams-force
	56.93 grams-force
Statistics based on 16 of 16 reporting participants	

Sample Q29: LDPE & Sample Q30: LDPE

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

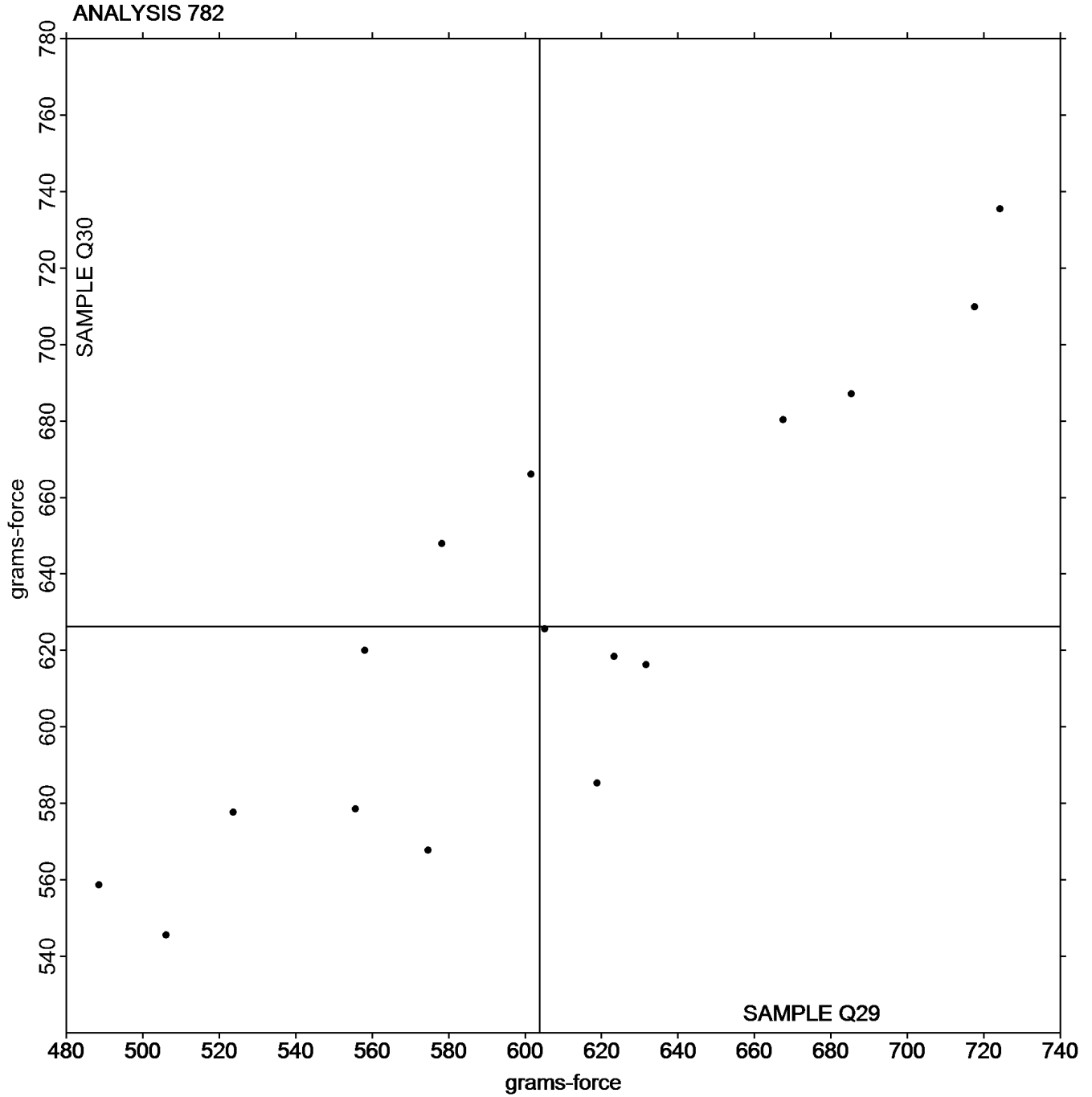
- |                                    |                               |
|------------------------------------|-------------------------------|
| (LO) - Lorentzen & Wettre Model II | (SZ) - Textest FX 3700        |
| (TA) - Thwing-Albert               | (TE) - Thwing-Albert Pro Tear |
| (TM) - TMI No. 83-1100             | (TN) - TMI Tear Tester 83-10  |



Plastics Interlaboratory Testing Program  
Analysis 782  
Tear Resistance of Films

Grand Mean Sample Q29: 603.76 grams-force

Grand Mean Sample Q30: 626.26 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 D29			Sample D30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
22DFDK		23.058	-1.440	-1.11	23.595	-0.491	-0.37	BH
4QMFQ8		27.293	2.795	2.15	26.756	2.671	2.00	BJ
6WN6RC		22.108	-2.390	-1.84	20.849	-3.237	-2.42	HL
7M9ZQD		21.289	-3.209	-2.47	20.829	-3.257	-2.44	XR
96XD7J		24.800	0.302	0.23	23.875	-0.211	-0.16	BJ
98ZBGC		24.613	0.115	0.09	23.888	-0.198	-0.15	BJ
BU39TZ		23.763	-0.735	-0.57	23.013	-1.073	-0.80	BJ
C89NAP		24.138	-0.360	-0.28	24.113	0.027	0.02	BJ
C8UUVF		24.308	-0.190	-0.15	24.053	-0.033	-0.02	BJ
DQZUFU		24.063	-0.435	-0.34	23.488	-0.598	-0.45	BH
EDKPHX		23.776	-0.722	-0.56	23.753	-0.333	-0.25	XR
F4FU4Y		24.775	0.277	0.21	23.625	-0.461	-0.34	BJ
J2FVEB	*	24.950	0.452	0.35	26.188	2.102	1.57	BJ
J8T6U6		24.576	0.078	0.06	24.075	-0.011	-0.01	BJ
JB24VR		24.850	0.352	0.27	24.513	0.427	0.32	BJ
KDVR66		24.790	0.292	0.23	23.763	-0.323	-0.24	XX
MWG6UE		24.903	0.405	0.31	24.481	0.396	0.30	BJ
QCAQBH		24.550	0.052	0.04	24.163	0.077	0.06	BJ
QGPEQ9		24.788	0.290	0.22	24.788	0.702	0.53	BT
QV4EMY		24.213	-0.285	-0.22	23.725	-0.361	-0.27	BJ
TAH98N	*	28.425	3.927	3.03	27.600	3.514	2.63	DA
U8DG68		24.875	0.377	0.29	24.650	0.564	0.42	BJ
VUCWRF		25.531	1.033	0.80	24.669	0.583	0.44	HC
WMCV7F		24.950	0.452	0.35	24.538	0.452	0.34	BJ
WZUW2Y		23.563	-0.935	-0.72	24.225	0.139	0.10	BJ
X9H8NY		24.588	0.090	0.07	23.550	-0.536	-0.40	BJ
XZBFLA		23.494	-1.004	-0.77	23.350	-0.736	-0.55	XR
YTWCMT		24.863	0.365	0.28	24.275	0.189	0.14	BJ
ZCY26A		24.550	0.052	0.04	24.100	0.014	0.01	BJ

**Plastics Interlaboratory Testing Program**  
**Analysis 785**  
**Percent Haze of Film**

**Summary Statistics**

Grand Means

24.4978 Percent

24.0856 Percent

Std Dev Btwn Labs

1.2971 Percent

1.3358 Percent

Statistics based on 29 of 29 reporting participants

Sample D29: LDPE &amp; Sample D30: 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

(HC) - Hunterlab ColorQuest

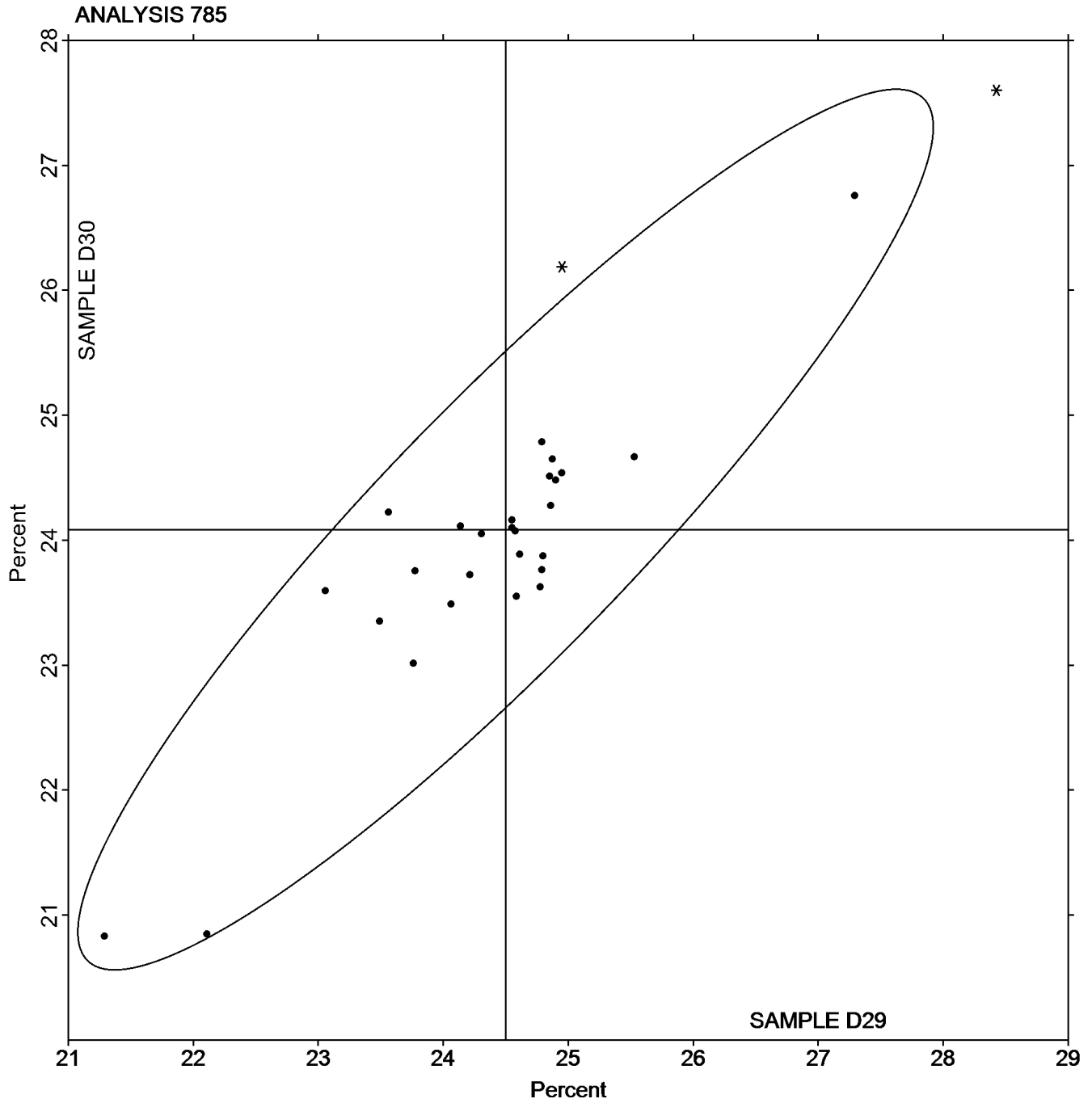
(HL) - Hunterlab Ultrascan

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

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

Plastics Interlaboratory Testing Program  
Analysis 785  
Percent Haze of Film

Grand Mean Sample D29: 24.498 Percent      Grand Mean Sample D30: 24.086 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 786**  
**Total Luminous transmittance of film**

WebCode	Data Flag	Sample D29			Sample D30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
22DFDK		91.75	-0.83	-0.71	91.73	-0.87	-0.76	BH
4QMFQ8		93.66	1.08	0.93	93.54	0.94	0.83	BJ
6WN6RC		89.82	-2.76	-2.36	90.04	-2.55	-2.24	HL
7M9ZQD		91.72	-0.86	-0.74	91.79	-0.81	-0.71	XR
96XD7J		90.81	-1.77	-1.51	90.85	-1.74	-1.53	BJ
98ZBGC		92.44	-0.14	-0.12	92.34	-0.26	-0.22	BJ
BU39TZ		92.58	0.00	0.00	92.64	0.04	0.04	BJ
C89NAP		95.04	2.46	2.10	95.05	2.46	2.15	BJ
C8UUVF		93.64	1.06	0.90	93.58	0.99	0.87	BJ
DQZUFU		91.53	-1.05	-0.90	91.54	-1.06	-0.93	BH
EDKPHX		92.01	-0.56	-0.48	92.07	-0.52	-0.46	XR
F4FU4Y		93.40	0.82	0.70	93.21	0.62	0.54	BJ
J2FVEB		93.20	0.62	0.53	93.19	0.59	0.52	BJ
JB24VR		93.58	1.00	0.85	93.54	0.94	0.83	BJ
MWG6UE		93.31	0.73	0.62	93.37	0.77	0.68	BJ
QCAQBH		93.00	0.42	0.36	93.14	0.54	0.48	BJ
QGPEQ9		93.31	0.73	0.63	93.16	0.57	0.50	BJ
QV4EMY		92.41	-0.17	-0.14	92.46	-0.13	-0.11	BJ
TAH98N		91.04	-1.54	-1.32	91.02	-1.57	-1.38	DA
U8DG68		92.76	0.18	0.16	92.79	0.19	0.17	BJ
VUCWRF		93.21	0.63	0.54	93.22	0.62	0.55	HC
WMCV7F		91.39	-1.19	-1.02	91.53	-1.07	-0.94	BJ
WZUW2Y	*	92.94	0.36	0.31	93.28	0.68	0.60	BJ
X9H8NY		92.01	-0.57	-0.48	91.93	-0.67	-0.59	BJ
XZBFLA		91.96	-0.62	-0.53	91.90	-0.69	-0.61	XR
YTWCMT	X	71.10	-21.48	-18.36	71.91	-20.68	-18.14	BJ
ZCY26A		94.55	1.97	1.69	94.56	1.97	1.73	BJ

**Plastics Interlaboratory Testing Program**  
**Analysis 786**  
**Total Luminous transmittance of film**

**Summary Statistics**

Grand Means

92.579 Percent

92.594 Percent

Std Dev Btwn Labs

1.170 Percent

1.140 Percent

Statistics based on 26 of 27 reporting participants

Sample D29: LDPE &amp; Sample D30: LDPE

**Comments on assigned Data Flags for Test #786**

YTCWMT (X) - Data for both samples are low. Also inconsistent in testing within both samples.

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

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

(BJ) - BYK-Gardner Haze-Gard Plus

(DA) - Datacolor SF 600 Series

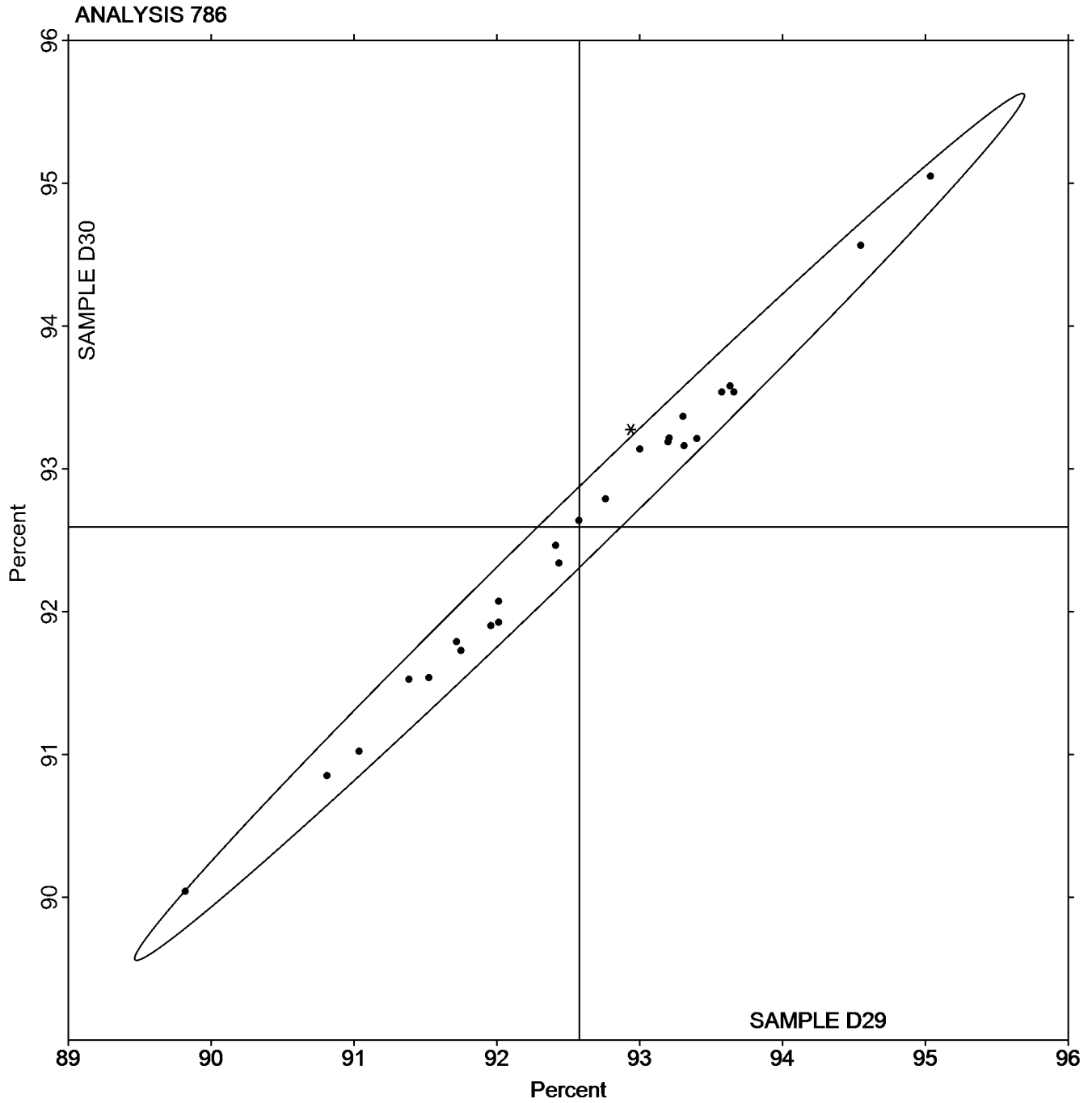
(HC) - Hunterlab ColorQuest

(HL) - Hunterlab Ultrascan XE

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

Plastics Interlaboratory Testing Program  
Analysis 786  
Total Luminous transmittance of film

Grand Mean Sample D29: 92.579 Percent      Grand Mean Sample D30: 92.594 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 Y29			Sample Y30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
26TR8F		0.10843	-0.00947	-0.36	0.10883	-0.01507	-0.52	XX
2GRLNK		0.11367	-0.00424	-0.16	0.12333	-0.00057	-0.02	MK
2T6LHR		0.10050	-0.01741	-0.65	0.11350	-0.01041	-0.36	AZ
3QE2TE		0.09790	-0.02000	-0.75	0.10379	-0.02012	-0.70	MU
4EHK3H		0.11700	-0.00091	-0.03	0.12533	0.00143	0.05	MJ
679FRD		0.14000	0.02209	0.83	0.13667	0.01276	0.44	MU
74NTZ4		0.11113	-0.00677	-0.25	0.12130	-0.00261	-0.09	MU
7HE32M	X	0.14200	0.02409	0.91	0.24400	0.12009	4.18	SA
7Z9G79		0.11857	0.00066	0.02	0.12943	0.00553	0.19	MR
9RCKRF		0.12567	0.00776	0.29	0.13267	0.00876	0.30	ML
BGDG4P		0.11500	-0.00291	-0.11	0.11900	-0.00491	-0.17	MK
D2DEG3		0.12350	0.00559	0.21	0.14400	0.02009	0.70	AZ
D9L8VD		0.11900	0.00109	0.04	0.12300	-0.00091	-0.03	SB
E32AEV		0.12467	0.00676	0.25	0.12600	0.00209	0.07	MJ
FMLB43		0.12750	0.00959	0.36	0.13150	0.00759	0.26	CT
HJ4QFD		0.14123	0.02333	0.88	0.13407	0.01016	0.35	AZ
HRXV8U		0.11743	-0.00047	-0.02	0.11680	-0.00711	-0.25	MR
JNQZ3G		0.12733	0.00943	0.35	0.13447	0.01056	0.37	XX
KQG2RB	X	0.03500	-0.08291	-3.12	0.16200	0.03809	1.33	SB
KUAPWP		0.14600	0.02809	1.06	0.15367	0.02976	1.04	SB
L2HLU3	X	0.11000	-0.00791	-0.30	0.07700	-0.04691	-1.63	MT
NDBY9H		0.07847	-0.03944	-1.48	0.09170	-0.03221	-1.12	XX
P6HBGR		0.14940	0.03149	1.18	0.16327	0.03936	1.37	CT
PJFVRH	X	0.13250	0.01459	0.55	0.16850	0.04459	1.55	MB
Q26QEC	*	0.19333	0.07543	2.84	0.20667	0.08276	2.88	MU
QGPEQ9		0.15433	0.03643	1.37	0.16340	0.03949	1.37	ML
QZYB9J		0.11433	-0.00357	-0.13	0.11410	-0.00981	-0.34	AZ
RCQ3PG		0.08367	-0.03424	-1.29	0.09000	-0.03391	-1.18	MU
RHBF8G	*	0.04500	-0.07291	-2.74	0.03767	-0.08624	-3.00	MR
RW362Z		0.11500	-0.00291	-0.11	0.11967	-0.00424	-0.15	MU
TBQJZL		0.12533	0.00743	0.28	0.12500	0.00109	0.04	AZ
XFNRE4		0.11867	0.00076	0.03	0.12833	0.00443	0.15	MD



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

WebCode	Data Flag	Sample Y29			Sample Y30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
YWBCQG		0.08610	-0.03181	-1.20	0.08503	-0.03887	-1.35	MT
ZN4GGE		0.09900	-0.01891	-0.71	0.11500	-0.00891	-0.31	XX

Summary Statistics			
Grand Means	0.117906	Percent	0.123906
Std Dev Btwn Labs	0.026591	Percent	0.028749
Statistics based on 30 of 34 reporting participants			

Sample Y29: ABS/PC & Sample Y30: ABS/PC

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

- 7HE32M (X) - Inconsistent in testing between samples, data for Sample Y30 are high.
- KQG2RB (X) - Inconsistent in testing between samples, data for Sample Y29 are low.
- L2HLU3 (X) - Inconsistent in testing between samples.
- PJFVRH (X) - Inconsistent in testing between samples and inconsistent in testing within Sample Y30.

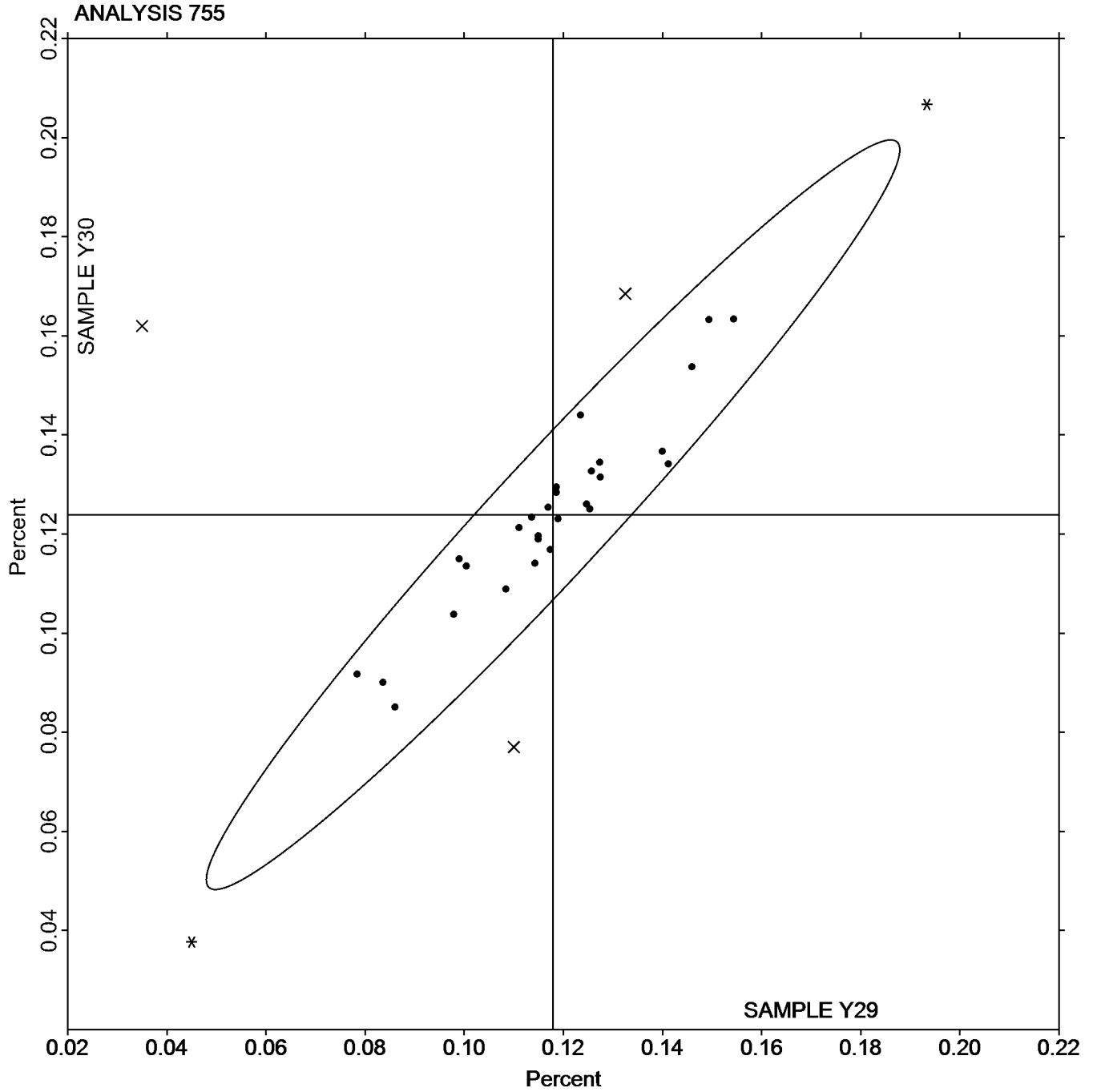
**Instrument Code List as Reported by the Labs**

- (AZ) - Arizona Instruments Moisture Analyzer
- (MB) - Omnimark Mark 3
- (MJ) - Mitsubishi KF Analyzer Series
- (ML) - Metrohm Coulometer
- (MT) - Mettler Toledo DL39
- (SA) - Sartorius MA30
- (XX) - Instrument manufacturer not specified by lab
- (CT) - Computrac Moisture Analyzer
- (MD) - Mettler Toledo DL37
- (MK) - Mitsubishi KF Analyzer CA
- (MR) - Metrohm Coulometer 756 KF
- (MU) - Mettler Toledo
- (SB) - Sartorius Mark 3

Plastics Interlaboratory Testing Program  
Analysis 755  
Moisture Content of Plastics

Grand Mean Sample Y29: 0.11791 Percent

Grand Mean Sample Y30: 0.12391 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 760  
DSC Crystallization Temperature**

WebCode	Data Flag	Sample W29			Sample W30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
4EHK3H		187.96667	-1.15125	-0.41	188.23333	-0.85792	-0.30	MT
7CA24D		193.67000	4.55208	1.62	193.49667	4.40542	1.52	TA
BGDG4P		187.30000	-1.81792	-0.65	186.86667	-2.22458	-0.77	TA
E9FNLA		185.83333	-3.28458	-1.17	185.80000	-3.29125	-1.13	TA
ER4A4C		187.82000	-1.29792	-0.46	188.42000	-0.67125	-0.23	TA
F4FYFM		190.32000	1.20208	0.43	190.58667	1.49542	0.51	PE
G4X6GX		188.83333	-0.28458	-0.10	189.50000	0.40875	0.14	TA
G92DDR		185.04667	-4.07125	-1.45	184.93333	-4.15792	-1.43	PE
GC3A8T		192.01333	2.89542	1.03	192.53333	3.44208	1.18	TA
GHTM7V		189.26667	0.14875	0.05	188.90000	-0.19125	-0.07	TA
GNVXYL		189.31000	0.19208	0.07	189.21000	0.11875	0.04	TA
K8MAN4		188.75000	-0.36792	-0.13	188.12333	-0.96792	-0.33	TA
KUAPWP		188.55333	-0.56458	-0.20	188.58333	-0.50792	-0.17	PE
KXDDFL		186.63333	-2.48458	-0.89	186.60000	-2.49125	-0.86	PE
MAEQPH	*	187.50000	-1.61792	-0.58	189.26667	0.17542	0.06	TA
NYT6WT		195.46667	6.34875	2.26	195.33333	6.24208	2.15	TA
Q26QEC		196.27667	7.15875	2.55	196.61667	7.52542	2.59	MT
QEA4B4		185.70667	-3.41125	-1.22	184.98000	-4.11125	-1.41	MT
QJWAVL		189.34000	0.22208	0.08	189.01333	-0.07792	-0.03	TA
UL8L7J		189.16667	0.04875	0.02	188.33333	-0.75792	-0.26	TA
W388LB		187.81000	-1.30792	-0.47	187.60000	-1.49125	-0.51	TA
WMCV7F		187.83333	-1.28458	-0.46	187.26667	-1.82458	-0.63	TA
XFNRE4		188.53333	-0.58458	-0.21	188.53333	-0.55792	-0.19	PE
XZPWFP		189.88000	0.76208	0.27	189.46000	0.36875	0.13	TA

**Summary Statistics**

Grand Means

189.117917 Degrees Celsius

189.091250 Degrees Celsius

Std Dev Btwn Labs

2.806353 Degrees Celsius

2.907831 Degrees Celsius

Statistics based on 24 of 24 reporting participants

Sample W29: PBT & Sample W30: PBT

**Plastics Interlaboratory Testing Program**  
**Analysis 760**  
**DSC Crystallization Temperature**

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

(MT) - Mettler Toledo Instruments

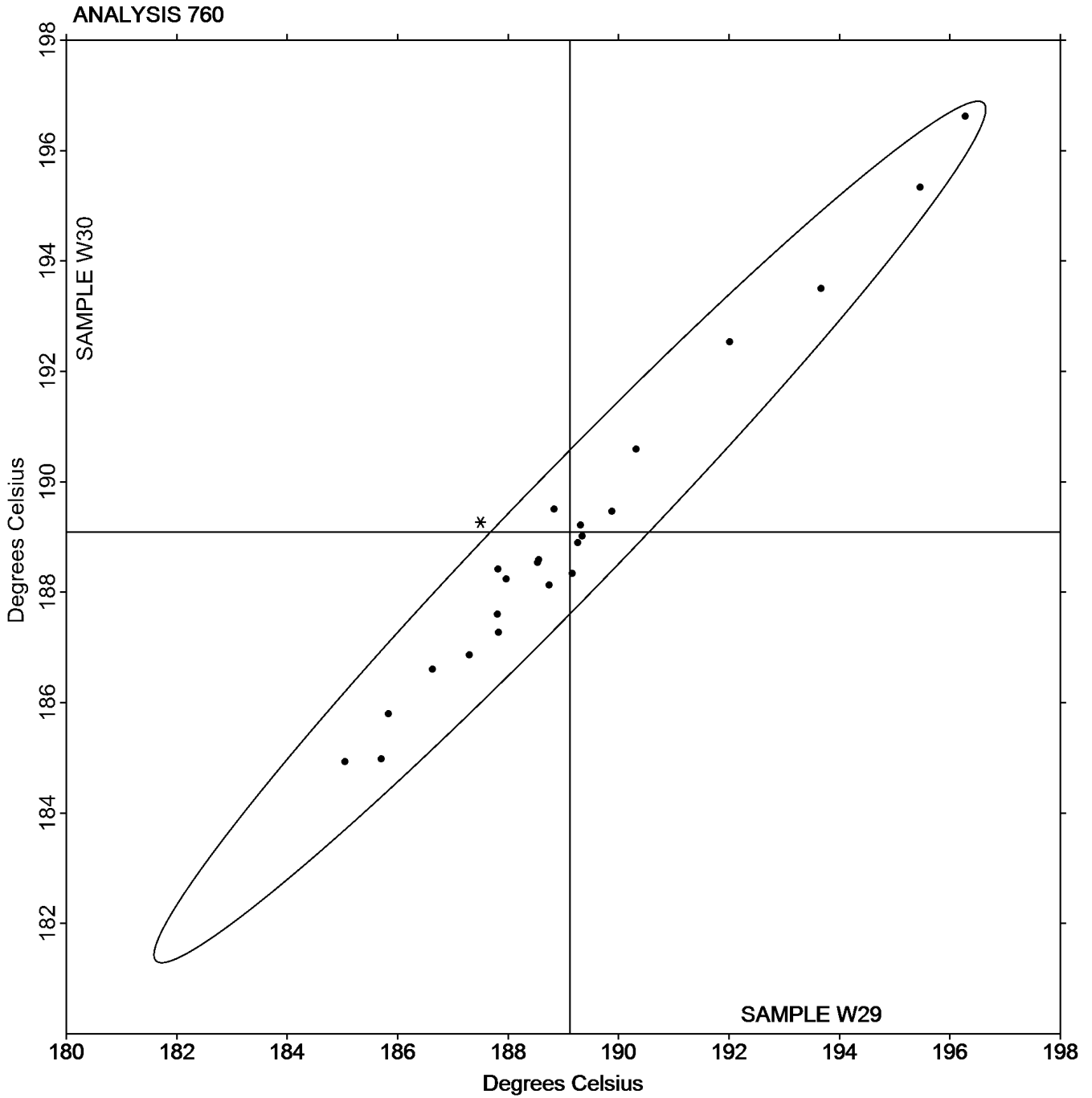
(PE) - Perkins Elmer Instruments

(TA) - TA Instruments

Plastics Interlaboratory Testing Program  
Analysis 760  
DSC Crystallization Temperature

Grand Mean Sample W29: 189.12 Degrees Celsius

Grand Mean Sample W30: 189.09 Degrees Celsius



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 761**  
**DSC Melt Temperature**

WebCode	Data Flag	Sample W29			Sample W30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2GRLNK	*	225.30333	1.47615	1.01	223.58333	-0.13654	-0.10	MT
2T6LHR		223.10000	-0.72718	-0.50	223.46667	-0.25321	-0.19	TA
4EHK3H		224.46667	0.63949	0.44	224.20000	0.48013	0.36	XX
7CA24D		224.58667	0.75949	0.52	224.24667	0.52679	0.40	TA
8JDFPT		222.23333	-1.59385	-1.10	222.63333	-1.08654	-0.83	XX
BGDG4P		224.50000	0.67282	0.46	224.36667	0.64679	0.49	TA
E9FNLA	X	226.80000	2.97282	2.04	228.30000	4.58013	3.48	TA
ER4A4C		224.37333	0.54615	0.38	224.19333	0.47346	0.36	TA
F4FYFM		222.86667	-0.96051	-0.66	222.37000	-1.34987	-1.02	PE
G4X6GX		222.50000	-1.32718	-0.91	222.40000	-1.31987	-1.00	TA
G92DDR		223.40000	-0.42718	-0.29	223.51000	-0.20987	-0.16	PE
GC3A8T		224.19333	0.36615	0.25	224.39000	0.67013	0.51	TA
GHTM7V		222.80000	-1.02718	-0.71	222.66667	-1.05321	-0.80	TA
GNVXYL		224.20000	0.37282	0.26	224.24667	0.52679	0.40	TA
K8MAN4		224.74333	0.91615	0.63	224.36000	0.64013	0.49	TA
KUAPWP		221.39667	-2.43051	-1.67	221.87333	-1.84654	-1.40	PE
KXDDFL		224.00000	0.17282	0.12	223.40000	-0.31987	-0.24	PE
MAEQPH		223.76667	-0.06051	-0.04	223.26667	-0.45321	-0.34	TA
NYT6WT		221.16667	-2.66051	-1.83	221.10000	-2.61987	-1.99	TA
Q26QEC	*	227.99333	4.16615	2.86	227.97333	4.25346	3.23	MT
QEA4B4		225.63333	1.80615	1.24	224.86333	1.14346	0.87	MT
QJWAVL		224.74000	0.91282	0.63	225.18667	1.46679	1.11	XX
UL8L7J		222.36667	-1.46051	-1.00	223.40000	-0.31987	-0.24	TA
W388LB		224.11667	0.28949	0.20	223.95667	0.23679	0.18	XX
WMCV7F		224.40000	0.57282	0.39	224.23333	0.51346	0.39	TA
XFNRE4		224.63333	0.80615	0.55	224.50000	0.78013	0.59	PE
XZPWF		222.02667	-1.80051	-1.24	222.33000	-1.38987	-1.06	TA

**Plastics Interlaboratory Testing Program**  
**Analysis 761**  
**DSC Melt Temperature**

**Summary Statistics**

## Grand Means

223.827179 Degrees Celsius

223.719872 Degrees Celsius

## Std Dev Btwn Labs

1.455021 Degrees Celsius

1.316999 Degrees Celsius

Statistics based on 26 of 27 reporting participants

Sample W29: PBT &amp; Sample W30: PBT

**Comments on assigned Data Flags for Test #761**

E9FNLA (X) - Inconsistent in testing between samples, data for Sample W30 are high. Also inconsistent in testing within both samples.

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

(MT) - Mettler Toledo Instruments

(PE) - Perkins Elmer Instruments

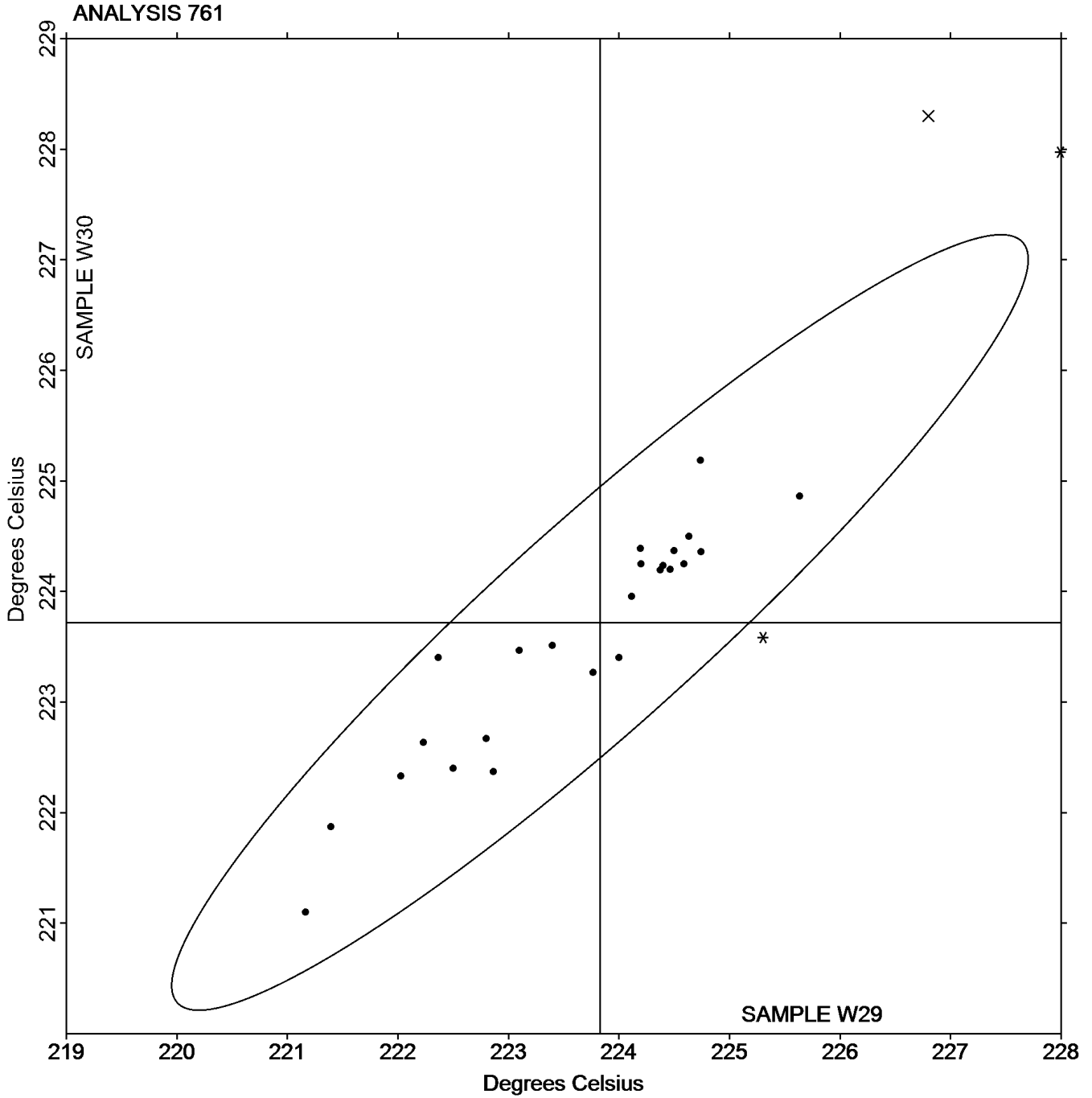
(TA) - TA Instruments

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 761  
DSC Melt Temperature

Grand Mean Sample W29: 223.83 Degrees Celsius

Grand Mean Sample W30: 223.72 Degrees Celsius



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 762  
DSC Enthalpy of Crystallization**

WebCode	Data Flag	Sample W29			Sample W30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
7CA24D		47.43667	1.78224	0.43	48.16000	2.21134	0.45	TA
BGDG4P		50.22000	4.56557	1.11	48.55667	2.60801	0.53	TA
E9FNLA		53.46667	7.81224	1.90	55.70000	9.75134	1.97	TA
ER4A4C		47.14000	1.48557	0.36	47.16667	1.21801	0.25	TA
G4X6GX		41.80000	-3.85443	-0.94	40.90000	-5.04866	-1.02	TA
G92DDR	*	46.64333	0.98890	0.24	53.42667	7.47801	1.51	PE
GC3A8T		42.64333	-3.01110	-0.73	42.11333	-3.83533	-0.77	TA
GHTM7V		45.01000	-0.64443	-0.16	44.83333	-1.11533	-0.23	TA
K8MAN4		44.23667	-1.41776	-0.34	42.41333	-3.53533	-0.71	TA
KUAPWP		46.15863	0.50420	0.12	45.66390	-0.28476	-0.06	PE
KXDDFL		42.55333	-3.10110	-0.75	42.60667	-3.34199	-0.67	PE
MAEQPH		41.56000	-4.09443	-0.99	40.20333	-5.74533	-1.16	TA
NYT6WT		54.10000	8.44557	2.05	54.53333	8.58467	1.73	TA
QEA4B4		43.86000	-1.79443	-0.44	43.29000	-2.65866	-0.54	MT
UL8L7J	X	43.68667	-1.96776	-0.48	66.24333	20.29467	4.10	TA
WMCV7F		46.93000	1.27557	0.31	47.88667	1.93801	0.39	TA
XFNRE4		38.51333	-7.14110	-1.73	39.41333	-6.53533	-1.32	PE
XZPWF		43.85333	-1.80110	-0.44	44.26000	-1.68866	-0.34	TA

Summary Statistics			
Grand Means	45.654429	Joules Per Gram	45.948661 Joules Per Gram
Std Dev Btwn Labs	4.120336	Joules Per Gram	4.952698 Joules Per Gram
Statistics based on 17 of 18 reporting participants			

Sample W29: PBT & Sample W30: PBT

**Comments on assigned Data Flags for Test #762**

UL8L7J (X) - Data for Sample W30 are high.

**Plastics Interlaboratory Testing Program**  
**Analysis 762**  
**DSC Enthalpy of Crystallization**

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

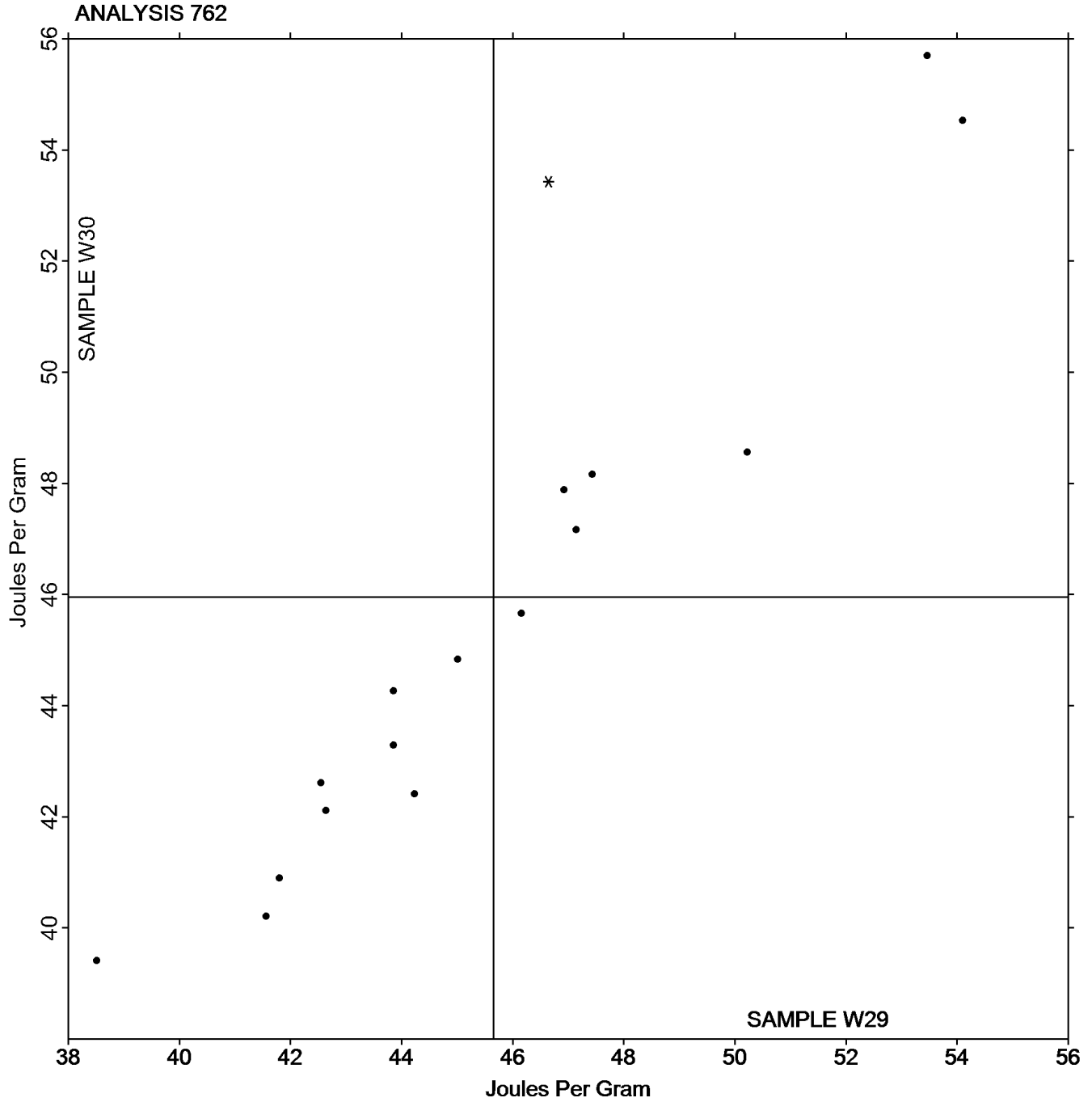
(MT) - Mettler Toledo Instruments

(PE) - Perkins Elmer Instruments

(TA) - TA Instruments

Plastics Interlaboratory Testing Program  
Analysis 762  
DSC Enthalpy of Crystallization

Grand Mean Sample W29: 45.654 Joules Per Gram      Grand Mean Sample W30: 45.949 Joules Per Gram



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 763**  
**DSC Enthalpy of Fusion**

WebCode	Data Flag	Sample W29			Sample W30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
7CA24D		37.96333	-3.79024	-0.65	38.84667	-2.95860	-0.47	TA
BGDG4P		46.24000	4.48643	0.77	46.26333	4.45806	0.71	TA
E9FNLA		38.26667	-3.48690	-0.60	41.10000	-0.70527	-0.11	TA
ER4A4C		50.45000	8.69643	1.49	51.31333	9.50806	1.51	TA
G4X6GX		34.16667	-7.58690	-1.30	34.10000	-7.70527	-1.22	TA
G92DDR		46.29333	4.53976	0.78	49.00333	7.19806	1.14	PE
GC3A8T		36.69667	-5.05690	-0.87	36.33333	-5.47194	-0.87	TA
GHTM7V		44.66333	2.90976	0.50	44.36000	2.55473	0.41	TA
K8MAN4		38.48333	-3.27024	-0.56	36.64667	-5.15860	-0.82	TA
KUAPWP		41.99403	0.24046	0.04	39.67293	-2.13234	-0.34	PE
KXDDFL		42.69667	0.94310	0.16	42.68333	0.87806	0.14	PE
MAEQPH		32.30000	-9.45357	-1.62	31.19000	-10.61527	-1.68	TA
NYT6WT		51.06667	9.31310	1.59	51.76667	9.96140	1.58	TA
QEA4B4		43.82667	2.07310	0.35	43.34333	1.53806	0.24	MT
UL8L7J	X	41.67333	-0.08024	-0.01	65.05667	23.25140	3.69	TA
WMCV7F		48.64000	6.88643	1.18	49.25667	7.45140	1.18	TA
XFNRE4		42.76000	1.00643	0.17	41.19333	-0.61194	-0.10	PE
XZPWF		33.30333	-8.45024	-1.45	33.61667	-8.18860	-1.30	TA

Summary Statistics	
Grand Means	
41.753571 Joules Per Gram	41.805271 Joules Per Gram
Std Dev Btwn Labs	
5.843669 Joules Per Gram	6.306442 Joules Per Gram
Statistics based on 17 of 18 reporting participants	

Sample W29: PBT & Sample W30: PBT

**Comments on assigned Data Flags for Test #763**

UL8L7J (X) - Inconsistent in testing between samples, data for Sample W30 are high.

**Plastics Interlaboratory Testing Program**  
**Analysis 763**  
**DSC Enthalpy of Fusion**

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

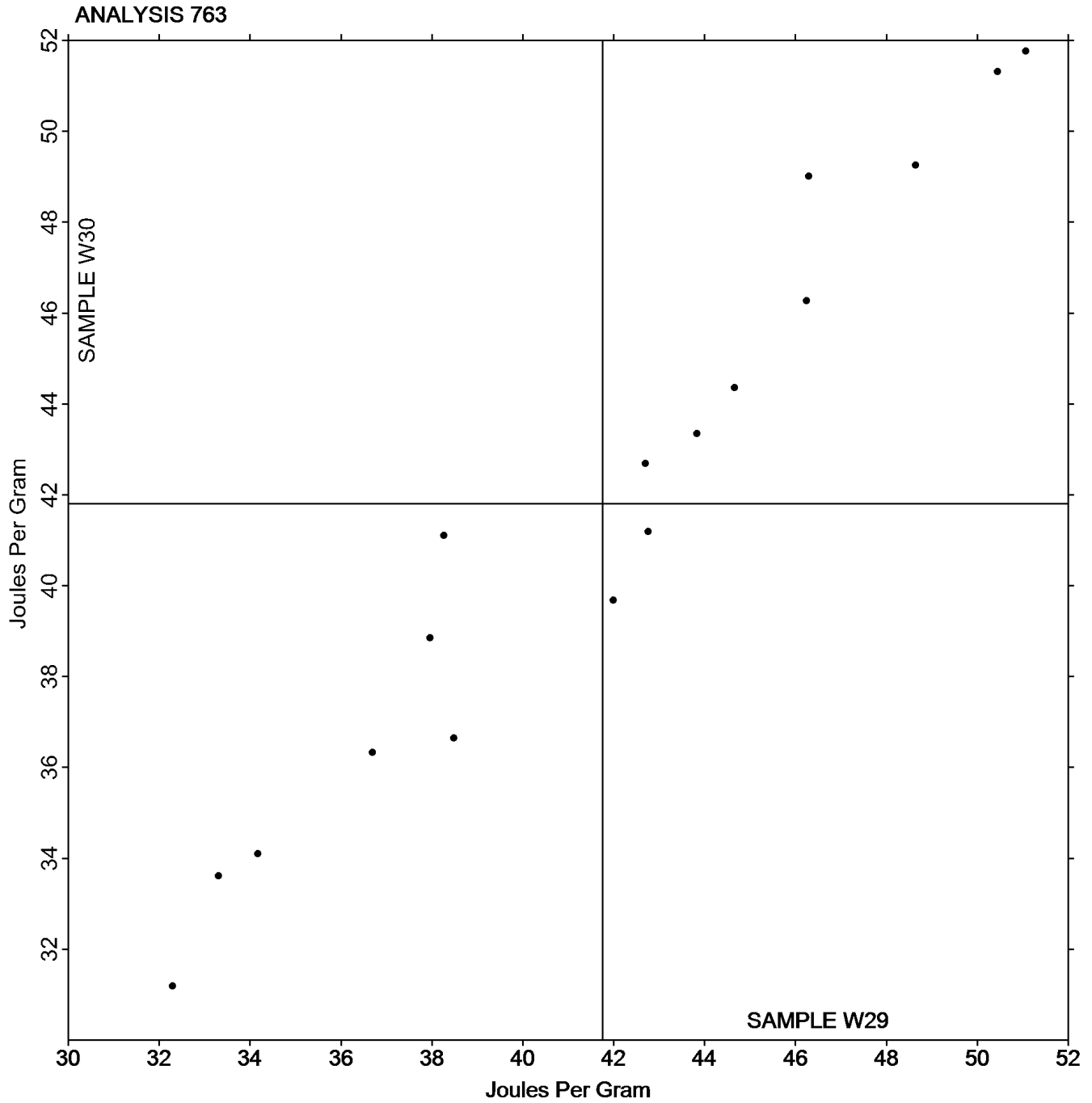
(MT) - Mettler Toledo Instruments

(PE) - Perkins Elmer Instruments

(TA) - TA Instruments

Plastics Interlaboratory Testing Program  
Analysis 763  
DSC Enthalpy of Fusion

Grand Mean Sample W29: 41.754 Joules Per Gram      Grand Mean Sample W30: 41.805 Joules Per Gram



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 764  
DSC Glass Transition Temperature**

WebCode	Data Flag	Sample V29			Sample V30			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2T6LHR		113.00000	3.79833	1.05	112.06667	2.96741	0.75	TA
7CA24D		108.45333	-0.74833	-0.21	108.56000	-0.53926	-0.14	TA
BGDG4P		113.60000	4.39833	1.22	114.00000	4.90074	1.23	TA
E9FNLA		111.63333	2.43167	0.67	112.43333	3.33407	0.84	TA
ER4A4C		111.16333	1.96167	0.54	110.93333	1.83407	0.46	TA
G4X6GX		109.46667	0.26500	0.07	109.63333	0.53407	0.13	TA
G92DDR		109.27000	0.06833	0.02	109.43667	0.33741	0.08	PE
GHTM7V		112.90000	3.69833	1.02	113.23333	4.13407	1.04	TA
K8MAN4		111.70667	2.50500	0.69	111.75333	2.65407	0.67	TA
KXDDFL		108.63333	-0.56833	-0.16	108.16667	-0.93259	-0.23	PE
MAEQPH		107.86667	-1.33500	-0.37	107.86667	-1.23259	-0.31	TA
NYT6WT		100.16667	-9.03500	-2.50	99.50000	-9.59926	-2.42	TA
Q26QEC		110.55667	1.35500	0.37	110.66333	1.56407	0.39	MT
QEA4B4		111.90333	2.70167	0.75	112.48000	3.38074	0.85	MT
UL8L7J	*	103.93333	-5.26833	-1.46	101.96667	-7.13259	-1.80	TA
WMCV7F		106.36667	-2.83500	-0.78	106.00000	-3.09926	-0.78	TA
XFNRE4		110.93333	1.73167	0.48	110.86667	1.76741	0.45	PE
XZPWF		104.07667	-5.12500	-1.42	104.22667	-4.87259	-1.23	TA

Summary Statistics			
Grand Means			
109.201667	Degrees Celsius	109.099259	Degrees Celsius
Std Dev Btwn Labs			
3.614104	Degrees Celsius	3.969612	Degrees Celsius
Statistics based on 18 of 18 reporting participants			

Sample V29: PET & Sample V30: PET

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

(MT) - Mettler Toledo Instruments

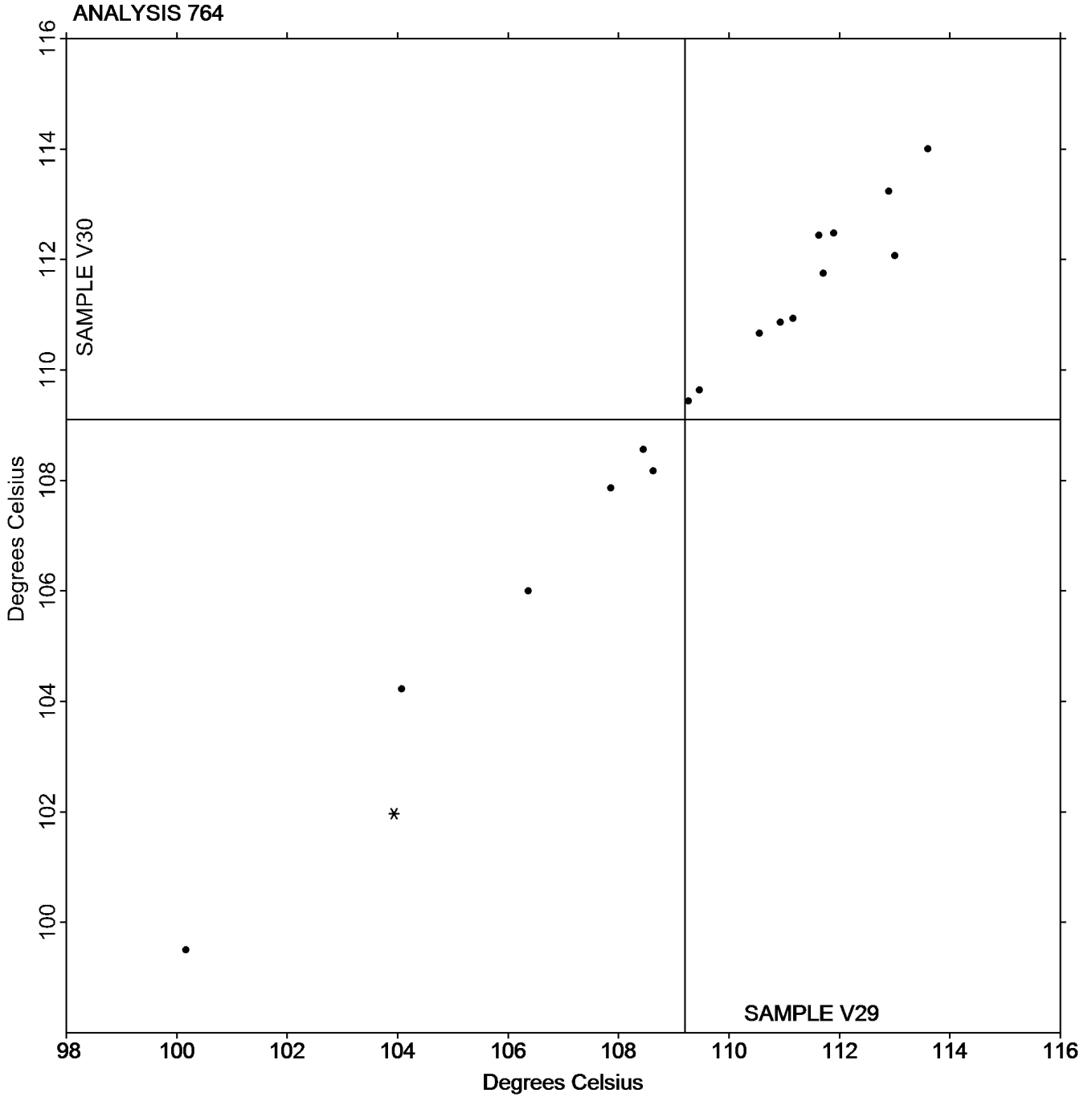
(PE) - Perkins Elmer Instruments

(TA) - TA Instruments

Plastics Interlaboratory Testing Program  
Analysis 764  
DSC Glass Transition Temperature

Grand Mean Sample V29: 109.20 Degrees Celsius

Grand Mean Sample V30: 109.10 Degrees Celsius



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