

## Plastics Interlaboratory Testing Program

### Web Summary Report #94, 2nd 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 #94

### Plastics Interlaboratory Testing Program

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#### Analysis 704 - Tensile Stress at Yield

Material: ABS/PC	Sample F27	9,610.63	psi	1.58% COV
	Sample F28	9,594.11	psi	1.47% COV

#### Analysis 705 - Tensile Stress at Break

Material: ABS/PC	Sample F27	6,935.27	psi	1.84% COV
	Sample F28	6,952.25	psi	1.81% COV

#### Analysis 706 - Percent Elongation at Yield

Material: ABS/PC	Sample F27	3.6707	Percent	2.36% COV
	Sample F28	3.6658	Percent	3.21% COV

#### Analysis 708 - Modulus of Elasticity

Material: ABS/PC	Sample F27	399.90	ksi	5.40% COV
	Sample F28	402.04	ksi	5.09% COV

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

Material: HIPS	Sample C27	25.860	MPa	2.04% COV
	Sample C28	25.671	MPa	2.02% COV

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

Material: HIPS	Sample C27	20.191	MPa	2.11% COV
	Sample C28	19.636	MPa	2.10% COV

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

Material: HIPS	Sample C27	1.3752	Percent	3.32% COV
	Sample C28	1.3474	Percent	4.39% COV

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

Material: HIPS	Sample C27	2,088.91	MPa	3.74% COV
	Sample C28	2,114.39	MPa	3.30% COV

#### Analysis 720 - Flexural Modulus

Material: ABS	Sample J27	367.42	ksi	4.80% COV
	Sample J28	366.35	ksi	4.59% COV

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

Material: ABS	Sample J27	10,979.03	psi	3.86% COV
	Sample J28	10,927.69	psi	3.91% COV

#### Analysis 722 - Flexural Stress at Yield

Material: ABS	Sample J27	10,999.07	psi	3.18% COV
	Sample J28	10,972.59	psi	3.06% COV

#### Analysis 736 - Flexural Modulus

Material: ABS	Sample K27	2,443.08	MPa	3.26% COV
	Sample K28	2,428.14	MPa	3.57% COV

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

Material: ABS	Sample K27	72.494	MPa	2.52% COV
	Sample K28	72.393	MPa	2.58% COV

# Results Summary for Web Summary Report #94

## Plastics Interlaboratory Testing Program

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### Analysis 738 - Flexural Stress at Yield

Material: ABS	Sample K27	74.113	MPa	2.62% COV
	Sample K28	73.820	MPa	2.65% COV

### Analysis 790 - Notched Izod Impact

Material: ABS	Sample S27	5.3238	ft.lbf/in	7.25% COV
	Sample S28	5.5322	ft.lbf/in	8.10% COV

### Analysis 792 - Notched Charpy Impact

Material: ABS	Sample M27	29.539	kJ/m <sup>2</sup>	5.17% COV
	Sample M28	29.256	kJ/m <sup>2</sup>	5.47% COV

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

Material: ABS	Sample E27	83.102	Degrees C	1.89% COV
	Sample E28	83.250	Degrees C	1.68% COV

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

Material: PP	Sample G27	77.320	Degrees C	1.88% COV
	Sample G28	77.317	Degrees C	2.16% COV

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

Material: ABS	Sample N27	81.602	Degrees C	1.62% COV
	Sample N28	81.600	Degrees C	1.64% COV

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

Material: HIPS	Sample H27	96.512	Degrees C	0.644% COV
	Sample H28	96.564	Degrees C	0.686% COV

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

Material: HIPS	Sample R27	98.775	Degrees C	0.812% COV
	Sample R28	98.722	Degrees C	0.836% COV

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

Material: PP	Sample X27	11.334	grams/10 mi	4.40% COV
	Sample X28	11.405	grams/10 mi	4.40% COV

### Analysis 718 - Specific Gravity

Material: ABS	Sample T27	1.0451	sp gr 23/23	0.205% COV
	Sample T28	1.0452	sp gr 23/23	0.197% COV

### Analysis 757 - Ash Content

Material: PP	Sample L27	21.519	Percent	0.634% COV
	Sample L28	21.525	Percent	0.695% COV

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

Material: LDPE	Sample B27	2,397.43	psi	38.9% COV
	Sample B28	2,390.76	psi	37.3% COV

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

Material: LDPE	Sample B27	3,354.71	psi	6.11% COV
	Sample B28	3,338.18	psi	8.33% COV

# Results Summary for Web Summary Report #94

## Plastics Interlaboratory Testing Program

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### Analysis 772 - Elongation at Yield, Films

Material: LDPE	Sample B27	158.24	Percent	115% COV
	Sample B28	155.37	Percent	114% COV

### Analysis 773 - Elongation at Break, Films

Material: LDPE	Sample B27	382.00	Percent	20.3% COV
	Sample B28	382.46	Percent	20.6% COV

### Analysis 774 - Thickness of Film Specimens

Material: LDPE	Sample B27	2.6320	mils	4.06% COV
	Sample B28	2.6358	mils	5.23% COV

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

Material: LDPE	Sample B27	31,193.30	psi	9.31% COV
	Sample B28	31,190.62	psi	8.42% COV

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

Material: LDPE	Sample B27	27,463.72	psi	5.51% COV
	Sample B28	27,449.14	psi	5.56% COV

### Analysis 780 - Static Friction

Material: LDPE	Sample P27	0.14033	COF	27.7% COV
	Sample P28	0.14651	COF	27.4% COV

### Analysis 781 - Kinetic Friction

Material: LDPE	Sample P27	0.11391	COF	22.0% COV
	Sample P28	0.12312	COF	18.0% COV

### Analysis 782 - Tear Resistance of Film

Material: LDPE	Sample Q27	337.32	grams-force	10.1% COV
	Sample Q28	388.20	grams-force	11.5% COV

### Analysis 785 - Percent Haze

Material: LDPE	Sample D27	18.908	Percent	7.35% COV
	Sample D28	18.952	Percent	7.11% COV

### Analysis 786 - Total Transmittance

Material: LDPE	Sample D27	92.372	Percent	1.57% COV
	Sample D28	92.381	Percent	1.56% COV

### Analysis 755 - Moisture Content

Material: ABS	Sample Y27	0.17482	Percent	14.4% COV
	Sample Y28	0.18168	Percent	14.8% COV

### Analysis 760 - DSC

Material: PP	Sample W27	106.62	Degrees Cel:	3.29% COV
	Sample W28	106.71	Degrees Cel:	2.94% COV

### Analysis 761 - DSC

Material: PP	Sample W27	164.61	Degrees Cel:	1.69% COV
	Sample W28	164.48	Degrees Cel:	1.58% COV

## Results Summary for Web Summary Report #94

### Plastics Interlaboratory Testing Program

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#### Analysis 762 - DSC

Material: PP	Sample W27	98.304	Joules Per (	7.51% COV
	Sample W28	98.421	Joules Per (	8.21% COV

#### Analysis 763 - DSC

Material: PP	Sample W27	92.162	Joules Per (	8.71% COV
	Sample W28	93.103	Joules Per (	8.95% COV

#### Analysis 764 - DSC

Material: PET	Sample V27	87.154	Degrees Cel:	1.78% COV
	Sample V28	87.094	Degrees Cel:	1.80% COV

#### Analysis 791 - Notched Izod Impact

Material: ABS/PC	Sample Z27	51.848	kJ/m^2	4.99% COV
	Sample Z28	51.538	kJ/m^2	5.57% COV



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

WebCode	Data Flag	Sample F27			Sample F28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2P7EUK		9,629.4	18.8	0.12	9,574.0	-20.1	-0.14
3JJPAB		9,710.6	100.0	0.66	9,694.8	100.7	0.71
3UK8TQ		9,685.4	74.8	0.49	9,755.4	161.3	1.14
4BZ3EC		9,761.1	150.5	0.99	9,701.1	107.0	0.76
4FEH7N		9,565.4	-45.2	-0.30	9,631.6	37.5	0.27
4XURAB		9,447.4	-163.2	-1.08	9,542.2	-51.9	-0.37
4XUUWU		9,548.1	-62.5	-0.41	9,570.4	-23.7	-0.17
69BU9G		9,489.3	-121.3	-0.80	9,501.5	-92.6	-0.66
6MTLTG		9,622.0	11.4	0.08	9,530.0	-64.1	-0.45
6V62G6	*	9,494.3	-116.4	-0.77	9,643.1	49.0	0.35
7LC6UU		9,529.4	-81.3	-0.54	9,550.9	-43.2	-0.31
8ENRME		9,931.8	321.2	2.12	9,861.8	267.7	1.89
8GXNZW		9,736.8	126.2	0.83	9,729.6	135.5	0.96
8L9PF9		9,763.0	152.4	1.00	9,727.2	133.1	0.94
8LN4P3		9,388.8	-221.8	-1.46	9,405.4	-188.7	-1.34
8Z8LJR		9,582.0	-28.6	-0.19	9,545.4	-48.7	-0.34
ABJPPN		9,514.6	-96.1	-0.63	9,468.1	-126.0	-0.89
AN7Z7T		9,836.2	225.6	1.49	9,802.4	208.3	1.47
AQRUZ8		9,648.0	37.4	0.25	9,543.6	-50.5	-0.36
AQW7N4		9,547.0	-63.6	-0.42	9,535.4	-58.7	-0.42
ARLHGH		9,567.1	-43.6	-0.29	9,528.7	-65.4	-0.46
BHW2CE		9,851.0	240.4	1.59	9,816.2	222.1	1.57
BTH99H		9,658.3	47.7	0.31	9,651.6	57.5	0.41
CJ4Q7B		9,427.9	-182.7	-1.21	9,432.3	-161.8	-1.14
FEXBZH	X	8,336.4	-1,274.2	-8.40	9,184.0	-410.2	-2.90
FGLXJX		9,527.2	-83.4	-0.55	9,448.0	-146.1	-1.03
GGHPWV		9,833.6	223.0	1.47	9,862.7	268.5	1.90
GGJM8R		9,602.0	-8.6	-0.06	9,634.8	40.7	0.29
GLX3VX		9,558.1	-52.6	-0.35	9,569.7	-24.4	-0.17
GPEP93		9,784.8	174.2	1.15	9,749.8	155.7	1.10
GQ9DMR		9,615.4	4.8	0.03	9,607.4	13.3	0.09
H7ZF2B		9,562.0	-48.6	-0.32	9,560.0	-34.1	-0.24

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

WebCode	Data Flag	Sample F27			Sample F28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
HM3EP6		9,715.0	104.4	0.69	9,589.8	-4.3	-0.03
HQKATW		9,562.1	-48.5	-0.32	9,599.8	5.7	0.04
J2YTMD		9,871.4	260.7	1.72	9,874.3	280.1	1.98
J8METE		9,466.0	-144.6	-0.95	9,482.0	-112.1	-0.79
JFXQRW		9,521.2	-89.4	-0.59	9,484.4	-109.7	-0.78
JKTME3		9,722.0	111.4	0.73	9,716.0	121.9	0.86
JPLQ4Z		9,664.4	53.8	0.35	9,644.0	49.9	0.35
JWPQKH		9,257.2	-353.4	-2.33	9,240.6	-353.5	-2.50
KAPP7T		9,314.8	-295.8	-1.95	9,380.4	-213.7	-1.51
KKQCYQ		9,644.8	34.2	0.23	9,615.0	20.9	0.15
KLKXRG		9,700.9	90.3	0.60	9,680.7	86.6	0.61
KNA9KV		9,387.5	-223.1	-1.47	9,422.3	-171.8	-1.22
KQUZUC		9,470.6	-140.0	-0.92	9,374.8	-219.3	-1.55
KQZF37		9,737.8	127.2	0.84	9,757.4	163.3	1.16
L7RMK6		9,702.2	91.5	0.60	9,758.0	163.9	1.16
LBHT9E		9,546.2	-64.4	-0.42	9,470.8	-123.3	-0.87
LLXWFY		9,629.0	18.4	0.12	9,626.6	32.5	0.23
MDZLKT		9,758.0	147.4	0.97	9,693.5	99.4	0.70
MGNV2L		9,774.0	163.4	1.08	9,654.6	60.5	0.43
NHQ9XE		9,667.4	56.8	0.37	9,681.0	86.9	0.61
PB6JUV		9,892.5	281.9	1.86	9,817.7	223.6	1.58
PT9ATE		9,747.5	136.9	0.90	9,727.2	133.1	0.94
QDAM2C		9,496.7	-114.0	-0.75	9,498.5	-95.6	-0.68
QUYRA7		9,729.8	119.2	0.79	9,679.3	85.2	0.60
QYATNH		9,352.0	-258.6	-1.71	9,341.8	-252.3	-1.78
QZNCE8		9,682.8	72.2	0.48	9,566.8	-27.3	-0.19
REJU3K		9,597.2	-13.4	-0.09	9,601.2	7.1	0.05
REWP4H	X	9,628.8	18.2	0.12	9,822.0	227.9	1.61
RHGK34		9,556.4	-54.2	-0.36	9,491.8	-102.3	-0.72
RV34AE		9,654.7	44.0	0.29	9,706.6	112.5	0.80
TM88GA		9,401.0	-209.6	-1.38	9,377.6	-216.5	-1.53
VADPF2		9,870.3	259.7	1.71	9,752.4	158.3	1.12

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

WebCode	Data Flag	Sample F27			Sample F28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
VKX2RE	X	12,838.4	3,227.8	21.29	12,796.6	3,202.5	22.66
W3RW3G		9,520.6	-90.0	-0.59	9,487.4	-106.7	-0.75
WL7BKC		9,568.2	-42.4	-0.28	9,519.6	-74.5	-0.53
XB2PQH		9,340.2	-270.4	-1.78	9,427.8	-166.3	-1.18
XBZU6Q		9,343.6	-267.0	-1.76	9,315.8	-278.3	-1.97
ZWDGQM		9,627.8	17.2	0.11	9,572.6	-21.5	-0.15

**Summary Statistics**

## Grand Means

9,610.63 psi

9,594.11 psi

## Std Dev Btwn Labs

151.63 psi

141.35 psi

Statistics based on 67 of 70 reporting participants

Sample F27: ABS/PC &amp; Sample F28: ABS/PC

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

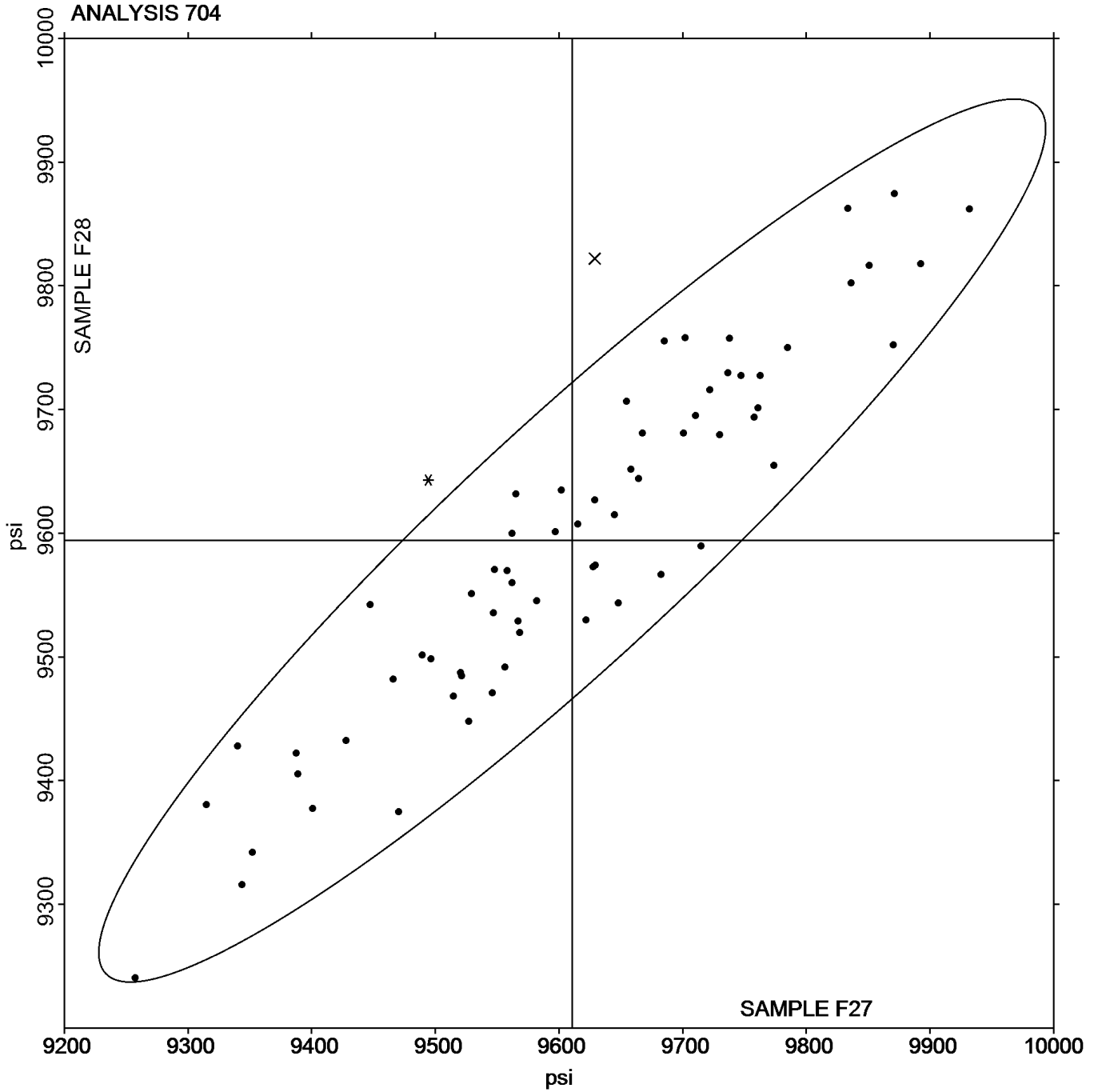
FEXBZH (X) - Data for both samples are low. Also inconsistent in testing within Sample F27.

REWP4H (X) - Inconsistent in testing between samples.

VKX2RE (X) - Data for both samples are high.

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

Grand Mean Sample F27: 9,610.63 psi      Grand Mean Sample F28: 9,594.11 psi



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

## Analysis 705

## Tensile Stress at Break - psi

WebCode	Data Flag	Sample F27			Sample F28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2P7EUK		7,067.2	131.9	1.04	7,000.2	47.9	0.38
3JJPAB		7,040.6	105.3	0.83	7,036.8	84.5	0.67
3UK8TQ		6,750.0	-185.3	-1.46	6,945.0	-7.3	-0.06
4BZ3EC		7,073.3	138.0	1.08	7,095.9	143.6	1.14
4FEH7N		6,849.6	-85.7	-0.67	6,947.8	-4.5	-0.04
4XURAB		6,750.6	-184.7	-1.45	6,856.2	-96.1	-0.76
4XUUWU		6,959.1	23.8	0.19	6,869.7	-82.5	-0.66
69BU9G		6,801.7	-133.5	-1.05	6,937.8	-14.5	-0.12
6V62G6		6,878.9	-56.4	-0.44	6,881.8	-70.4	-0.56
7LC6UU		6,834.5	-100.7	-0.79	6,866.0	-86.3	-0.69
8ENRME		7,206.4	271.1	2.13	7,105.4	153.1	1.22
8GXNZW		6,913.2	-22.1	-0.17	7,037.8	85.5	0.68
8L9PF9		7,155.2	219.9	1.73	7,072.4	120.1	0.96
8LN4P3		6,852.0	-83.3	-0.65	6,771.8	-180.5	-1.44
8Z8LJR		7,041.4	106.1	0.83	6,978.0	25.7	0.20
ABJPPN		6,842.9	-92.3	-0.73	6,996.7	44.4	0.35
AN7Z7T		7,048.5	113.3	0.89	7,002.2	50.0	0.40
AQRUZ8		6,869.0	-66.2	-0.52	6,860.3	-91.9	-0.73
AQW7N4		6,956.0	20.7	0.16	6,940.0	-12.3	-0.10
ARLHGH		6,911.4	-23.9	-0.19	7,013.4	61.2	0.49
BHW2CE		6,889.4	-45.9	-0.36	6,866.1	-86.1	-0.69
BTH99H		7,058.4	123.2	0.97	6,951.2	-1.0	-0.01
CJ4Q7B		6,864.9	-70.3	-0.55	6,847.4	-104.9	-0.83
FEXBZH	X	5,707.4	-1,227.9	-9.65	6,585.3	-366.9	-2.92
FGLXJX		6,880.2	-55.1	-0.43	6,820.2	-132.1	-1.05
GGHPWV		6,961.9	26.6	0.21	7,077.9	125.6	1.00
GGJM8R		7,012.0	76.7	0.60	6,980.4	28.1	0.22
GLX3VX		6,956.1	20.8	0.16	6,970.6	18.3	0.15
GPEP93		7,031.6	96.3	0.76	7,069.8	117.5	0.94
GQ9DMR		6,886.8	-48.5	-0.38	6,854.2	-98.1	-0.78
HM3EP6		6,981.0	45.7	0.36	6,885.0	-67.3	-0.54
HQKATW		7,116.8	181.5	1.43	7,159.4	207.2	1.65

## Plastics Interlaboratory Testing Program

## Analysis 705

## Tensile Stress at Break - psi

WebCode	Data Flag	Sample F27			Sample F28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
J2YTMD		7,130.1	194.8	1.53	7,051.8	99.5	0.79
JFXQRW		6,965.6	30.3	0.24	6,942.2	-10.1	-0.08
JKTME3		6,874.0	-61.3	-0.48	6,966.0	13.7	0.11
JPLQ4Z		7,047.2	111.9	0.88	6,969.4	17.1	0.14
JWPQKH		6,663.0	-272.3	-2.14	6,687.2	-265.1	-2.11
KAPP7T		6,679.2	-256.1	-2.01	6,795.8	-156.5	-1.25
KKQCYQ		6,955.4	20.1	0.16	6,994.2	41.9	0.33
KLKXRG		6,957.9	22.6	0.18	7,023.6	71.3	0.57
KNA9KV		6,826.4	-108.9	-0.86	6,893.7	-58.6	-0.47
KQUZUC		6,880.0	-55.3	-0.43	6,740.0	-212.3	-1.69
KQZF37		7,142.8	207.5	1.63	7,149.2	196.9	1.57
LBHT9E		6,823.7	-111.6	-0.88	6,728.6	-223.7	-1.78
LLXWFY		6,859.0	-76.3	-0.60	6,902.6	-49.7	-0.40
MDZLKT		6,990.4	55.2	0.43	7,138.3	186.1	1.48
MGNV2L	X	7,771.4	836.2	6.57	8,132.7	1,180.5	9.39
NHQ9XE		6,857.4	-77.9	-0.61	6,948.6	-3.7	-0.03
PB6JUV	*	7,245.3	310.0	2.44	7,254.3	302.0	2.40
PT9ATE		6,926.8	-8.5	-0.07	6,995.2	43.0	0.34
QDAM2C		6,957.4	22.1	0.17	6,947.8	-4.5	-0.04
QUYRA7		6,939.0	3.7	0.03	6,873.7	-78.6	-0.63
QYATNH		6,701.6	-233.7	-1.84	6,653.2	-299.1	-2.38
QZNCE8		7,037.3	102.0	0.80	6,985.1	32.8	0.26
REJU3K		6,919.2	-16.1	-0.13	6,950.4	-1.9	-0.01
REWP4H	*	6,913.6	-21.7	-0.17	7,169.8	217.5	1.73
RHGK34		6,760.0	-175.3	-1.38	6,770.3	-182.0	-1.45
RV34AE		6,983.6	48.4	0.38	7,052.4	100.1	0.80
VKX2RE	X	9,289.4	2,354.1	18.49	9,307.0	2,354.7	18.74
XB2PQH		6,706.0	-229.3	-1.80	6,752.0	-200.3	-1.59
ZMHN8U		6,974.0	38.7	0.30	7,098.0	145.7	1.16
ZWDGQM		7,024.4	89.1	0.70	7,052.2	99.9	0.80

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

**Summary Statistics**

Grand Means

6,935.27 psi

6,952.25 psi

Std Dev Btwn Labs

127.30 psi

125.65 psi

Statistics based on 59 of 62 reporting participants

Sample F27: ABS/PC &amp; Sample F28: ABS/PC

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

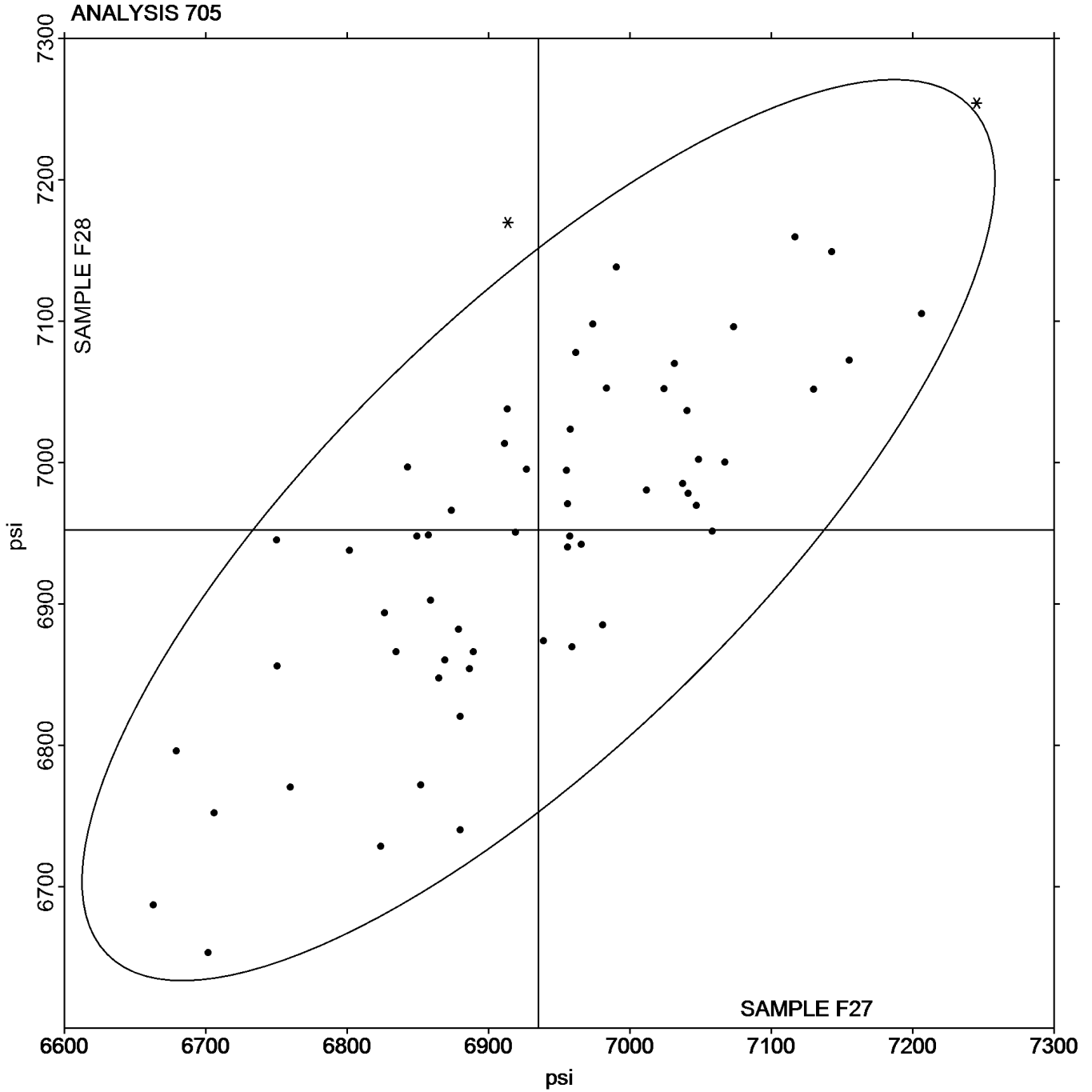
FEXBZH (X) - Data for both samples are low. Also inconsistent in testing within Sample F27.

MGNV2L (X) - Data for both samples are high. Also inconsistent in testing within Sample F27.

VKX2RE (X) - Data for both samples are high.

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

Grand Mean Sample F27: 6,935.27 psi    Grand Mean Sample F28: 6,952.25 psi



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



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

WebCode	Data Flag	Sample F27			Sample F28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2P7EUK	*	3.866	0.195	2.25	4.004	0.338	2.87
3JJPAB		3.620	-0.051	-0.59	3.654	-0.012	-0.10
3UK8TQ	X	11.094	7.423	85.62	11.066	7.400	62.90
4BZ3EC		3.620	-0.051	-0.59	3.620	-0.046	-0.39
4FEH7N		3.544	-0.127	-1.46	3.612	-0.054	-0.46
4XURAB		3.664	-0.007	-0.08	3.650	-0.016	-0.13
6MTLTG		3.646	-0.025	-0.29	3.552	-0.114	-0.97
8GXNZW		3.740	0.069	0.80	3.718	0.052	0.44
8L9PF9		3.750	0.079	0.91	3.740	0.074	0.63
8LN4P3		3.750	0.079	0.91	3.740	0.074	0.63
8Z8LJR		3.658	-0.013	-0.15	3.518	-0.148	-1.26
ABJPPN	X	6.596	2.925	33.74	6.488	2.822	23.99
AQRUZ8		3.700	0.029	0.34	3.600	-0.066	-0.56
AQW7N4		3.618	-0.053	-0.61	3.668	0.002	0.02
ARLHGH		3.784	0.113	1.31	3.926	0.260	2.21
BHW2CE		3.664	-0.007	-0.08	3.674	0.008	0.07
BTH99H		3.533	-0.138	-1.59	3.590	-0.076	-0.64
CJ4Q7B	X	3.254	-0.417	-4.81	3.308	-0.358	-3.04
FEXBZH	X	3.282	-0.389	-4.48	3.604	-0.062	-0.53
FGLXJX		3.700	0.029	0.34	3.662	-0.004	-0.03
GGHPWV		3.522	-0.149	-1.72	3.622	-0.044	-0.37
GGJM8R		3.712	0.041	0.48	3.710	0.044	0.38
GLX3VX	X	7.850	4.179	48.20	7.896	4.230	35.96
GPEP93		3.736	0.065	0.75	3.740	0.074	0.63
GQ9DMR		3.658	-0.013	-0.15	3.666	0.000	0.00
HM3EP6		3.658	-0.013	-0.15	3.592	-0.074	-0.63
HQKATW		3.648	-0.023	-0.26	3.622	-0.044	-0.37
J2YTMD		3.662	-0.009	-0.10	3.662	-0.004	-0.03
JFXQRW		3.684	0.013	0.15	3.660	-0.006	-0.05
JKTME3		3.640	-0.031	-0.35	3.700	0.034	0.29
JPLQ4Z		3.774	0.103	1.19	3.778	0.112	0.95
JWPQKH		3.584	-0.087	-1.00	3.492	-0.174	-1.48

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

WebCode	Data Flag	Sample F27			Sample F28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
KAPP7T		3.574	-0.097	-1.12	3.672	0.006	0.05
KKQCYQ		3.602	-0.069	-0.79	3.638	-0.028	-0.24
KNA9KV		3.666	-0.005	-0.05	3.670	0.004	0.04
KQUZUC		3.540	-0.131	-1.51	3.420	-0.246	-2.09
KQZF37		3.660	-0.011	-0.12	3.660	-0.006	-0.05
L7RMK6		3.474	-0.197	-2.27	3.450	-0.216	-1.83
LBHT9E		3.528	-0.143	-1.65	3.450	-0.216	-1.83
LLXWFY		3.720	0.049	0.57	3.766	0.100	0.85
MDZLKT	*	3.800	0.129	1.49	4.000	0.334	2.84
MGNV2L	X	0.250	-3.421	-39.46	0.270	-3.396	-28.87
NHQ9XE		3.704	0.033	0.38	3.746	0.080	0.68
PB6JUV		3.834	0.163	1.88	3.798	0.132	1.12
PT9ATE		3.804	0.133	1.54	3.720	0.054	0.46
QDAM2C	X	3.722	0.051	0.59	4.088	0.422	3.59
QUYRA7		3.676	0.005	0.06	3.632	-0.034	-0.29
QYATNH		3.564	-0.107	-1.23	3.538	-0.128	-1.09
QZNCE8	X	3.470	-0.201	-2.32	3.736	0.070	0.60
REJU3K		3.692	0.021	0.25	3.670	0.004	0.04
REWP4H		3.782	0.111	1.28	3.706	0.040	0.34
RHGK34		3.726	0.055	0.64	3.676	0.010	0.09
RV34AE	X	3.500	-0.171	-1.97	3.960	0.294	2.50
TM88GA		3.655	-0.016	-0.18	3.554	-0.112	-0.95
VKX2RE		3.750	0.079	0.91	3.676	0.010	0.09
W3RW3G		3.684	0.013	0.15	3.738	0.072	0.61
XB2PQH	X	2.588	-1.083	-12.49	2.540	-1.126	-9.57
ZWDGQM		3.626	-0.045	-0.52	3.606	-0.060	-0.51

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

Summary Statistics	
Grand Means	
3.6707 Percent	3.6658 Percent
Stnd Dev Btwn Labs	
0.0867 Percent	0.1176 Percent
Statistics based on 48 of 58 reporting participants	

Sample F27: ABS/PC & Sample F28: ABS/PC

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

3UK8TQ (X) - Data for both samples are high. Also inconsistent in testing within both samples.

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

CJ4Q7B (X) - Data for both samples are low. Also inconsistent in testing within both samples.

FEXBZH (X) - Data for Sample F27 are low. Also inconsistent in testing within Sample F27.

GLX3VX (X) - Data for both samples are high.

MGNV2L (X) - Data for both samples are low.

QDAM2C (X) - Data for Sample F28 are high. Also inconsistent in testing within both samples.

QZNCE8 (X) - Inconsistent in testing between samples.

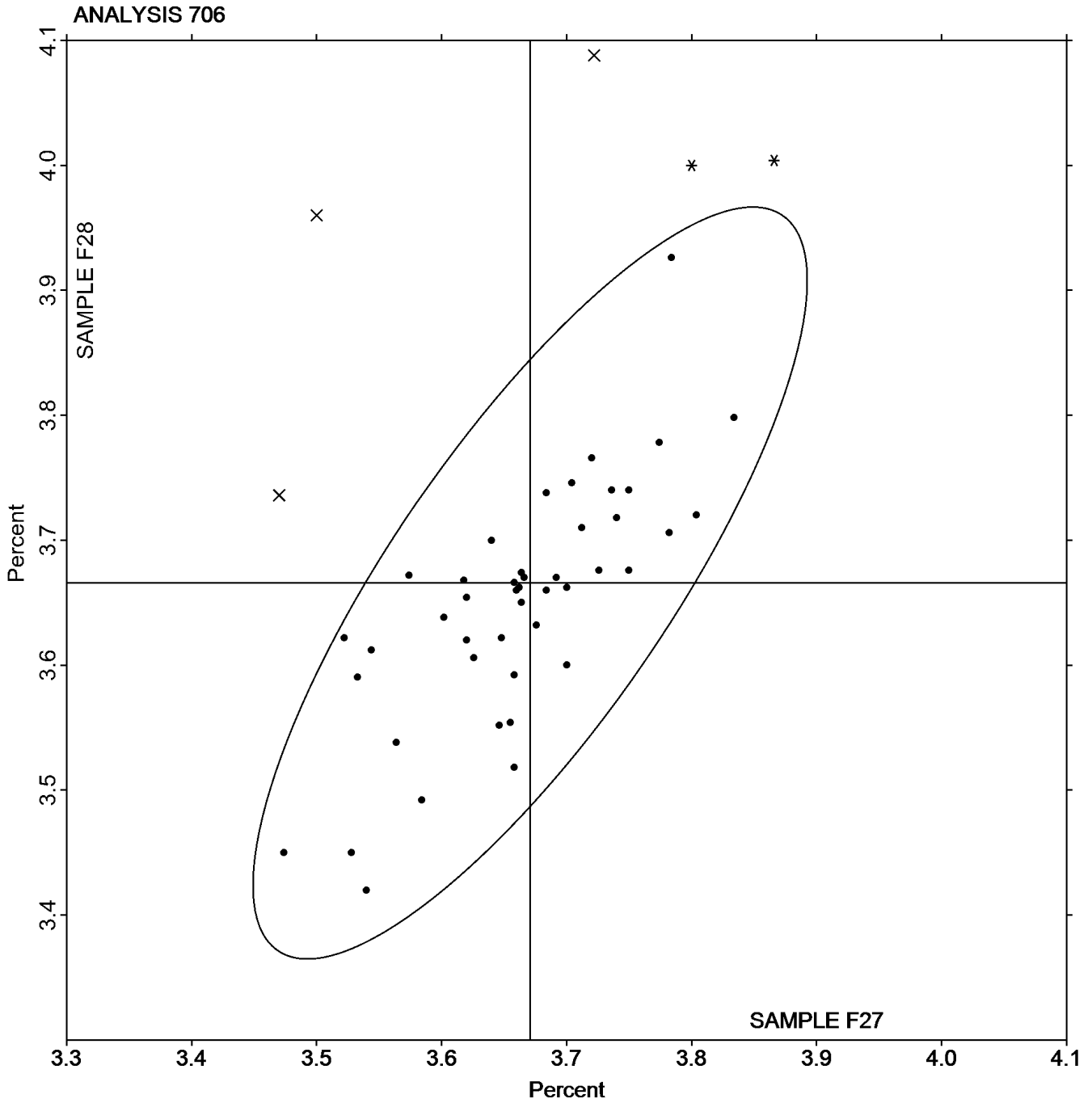
RV34AE (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.

XB2PQH (X) - Data for both samples are low. Also inconsistent in testing within Sample F28.

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

Grand Mean Sample F27: 3.6707 Percent

Grand Mean Sample F28: 3.6658 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 F27			Sample F28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2P7EUK	X	359.67	-40.23	-1.86	320.91	-81.13	-3.96
3JJPAB		414.94	15.04	0.70	413.08	11.04	0.54
4BZ3EC		419.74	19.85	0.92	421.95	19.90	0.97
4FEH7N	*	355.94	-43.96	-2.03	373.92	-28.12	-1.37
4XURAB		414.12	14.22	0.66	421.34	19.30	0.94
6MTLTG		428.40	28.50	1.32	429.20	27.16	1.33
8GXNZW		406.54	6.64	0.31	406.34	4.30	0.21
8L9PF9		410.50	10.60	0.49	411.88	9.84	0.48
8LN4P3		385.70	-14.20	-0.66	388.54	-13.50	-0.66
8Z8LJR		353.02	-46.88	-2.17	357.32	-44.72	-2.18
ABJPPN	X	175.21	-224.69	-10.40	174.92	-227.13	-11.09
AN7Z7T		389.96	-9.93	-0.46	391.87	-10.17	-0.50
AQRUZ8		415.39	15.49	0.72	409.62	7.58	0.37
AQW7N4		369.18	-30.72	-1.42	367.96	-34.08	-1.66
ARLHGH		405.92	6.02	0.28	407.29	5.25	0.26
BHW2CE		424.09	24.20	1.12	421.89	19.85	0.97
BTH99H	X	177.24	-222.66	-10.30	174.71	-227.33	-11.10
FEXBZH	X	265.15	-134.75	-6.24	271.64	-130.40	-6.37
FGLXJX	*	337.27	-62.63	-2.90	342.52	-59.53	-2.91
GGHPWV		429.23	29.33	1.36	429.61	27.56	1.35
GGJM8R		395.22	-4.68	-0.22	393.10	-8.94	-0.44
GLX3VX	X	170.28	-229.62	-10.63	172.31	-229.74	-11.22
GPEP93	X	433.90	34.00	1.57	403.48	1.44	0.07
GQ9DMR		381.46	-18.44	-0.85	383.46	-18.58	-0.91
HM3EP6		420.64	20.74	0.96	422.44	20.40	1.00
HQKATW		391.57	-8.33	-0.39	392.18	-9.87	-0.48
J2YTMD	*	428.10	28.20	1.31	411.91	9.87	0.48
JFHE87		400.28	0.38	0.02	405.35	3.31	0.16
JFXQRW		398.14	-1.76	-0.08	402.76	0.72	0.03
JKTME3		418.00	18.10	0.84	413.60	11.56	0.56
JPLQ4Z		391.06	-8.84	-0.41	392.61	-9.44	-0.46
JWPQKH		401.14	1.24	0.06	403.98	1.94	0.09

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

WebCode	Data Flag	Sample F27			Sample F28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
KAPP7T		411.06	11.16	0.52	408.98	6.94	0.34
KKQCYQ		423.22	23.32	1.08	418.38	16.34	0.80
KNA9KV		359.99	-39.91	-1.85	360.07	-41.97	-2.05
KQUZUC		397.00	-2.90	-0.13	390.40	-11.64	-0.57
KQZF37		379.44	-20.46	-0.95	392.20	-9.84	-0.48
LBHT9E	*	422.00	22.10	1.02	439.52	37.48	1.83
LLXWFY		409.30	9.40	0.44	409.76	7.72	0.38
MDZLKT	X	571.77	171.87	7.95	556.02	153.98	7.52
PB6JUV		420.06	20.17	0.93	416.39	14.35	0.70
PT9ATE		401.96	2.06	0.10	400.95	-1.10	-0.05
QDAM2C	X	387.76	-12.14	-0.56	354.76	-47.28	-2.31
QUYRA7		406.09	6.20	0.29	405.39	3.35	0.16
QYATNH		385.08	-14.82	-0.69	385.40	-16.64	-0.81
QZNCE8	X	444.40	44.50	2.06	387.46	-14.59	-0.71
REJU3K		383.98	-15.92	-0.74	383.92	-18.12	-0.88
REWP4H		393.40	-6.50	-0.30	411.20	9.16	0.45
RHGK34		379.82	-20.07	-0.93	379.46	-22.58	-1.10
RV34AE	X	315.20	-84.70	-3.92	328.02	-74.02	-3.61
TM88GA	*	403.30	3.40	0.16	424.46	22.42	1.09
VKX2RE	X	526.08	126.18	5.84	527.48	125.44	6.12
W3RW3G		397.56	-2.34	-0.11	405.84	3.80	0.19
XB2PQH		402.01	2.11	0.10	412.56	10.52	0.51
XBZU6Q		403.02	3.13	0.14	405.03	2.99	0.15
ZWDGQM		431.54	31.64	1.46	426.36	24.32	1.19

Summary Statistics	
Grand Means	399.898 ksi      402.044 ksi
Std Dev Btwn Labs	21.607 ksi      20.481 ksi
Statistics based on 45 of 56 reporting participants	

Sample F27: ABS/PC & Sample F28: ABS/PC

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

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

2P7EUK (X) - Inconsistent in testing between samples, data for Sample F28 are low. Also inconsistent in testing within both samples.

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

BTH99H (X) - Data for both samples are low.

FEXBZH (X) - Data for both samples are low. Also inconsistent in testing within Sample F27.

GLX3VX (X) - Data for both samples are low.

GPEP93 (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.

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

QDAM2C (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.

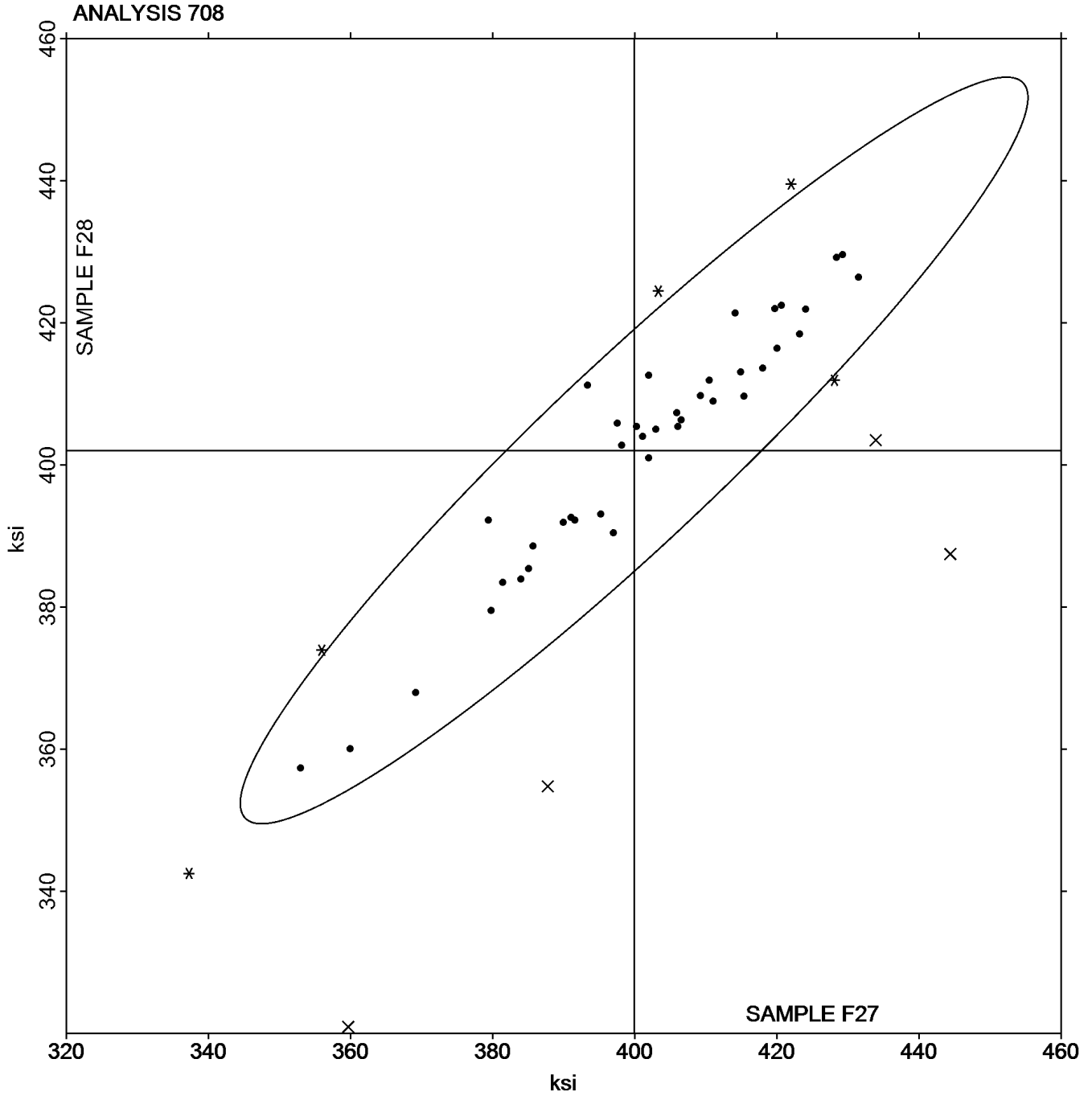
QZNCE8 (X) - Inconsistent in testing between samples.

RV34AE (X) - Data for both samples are low. Also inconsistent in testing within both samples.

VKX2RE (X) - Data for both samples are high.

Plastics Interlaboratory Testing Program  
Analysis 708  
Modulus of Elasticity - ksi

Grand Mean Sample F27: 399.90 ksi    Grand Mean Sample F28: 402.04 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 C27			Sample C28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
28Q4B8		25.63	-0.23	-0.44	25.82	0.15	0.29
2GTDMX		25.49	-0.37	-0.70	25.29	-0.39	-0.74
39FPJN		25.36	-0.50	-0.95	25.11	-0.56	-1.08
3BKFMH		26.45	0.59	1.12	26.14	0.47	0.91
3JJPAB		25.42	-0.44	-0.83	25.32	-0.35	-0.67
6TEUYT		25.98	0.12	0.23	25.57	-0.10	-0.20
6XU8YF		25.43	-0.43	-0.82	25.22	-0.45	-0.86
74RDTA		26.10	0.24	0.45	26.11	0.43	0.84
7LAC7U	*	27.14	1.28	2.42	27.09	1.42	2.73
7P8TJN		25.93	0.07	0.12	25.78	0.10	0.20
8BP74N	*	25.36	-0.50	-0.94	24.74	-0.93	-1.79
8KCA3B		26.38	0.52	0.98	26.42	0.75	1.44
8VGCCE		26.58	0.72	1.36	25.98	0.31	0.59
B9PKAM	X	21.20	-4.66	-8.81	20.80	-4.87	-9.38
BHW2CE		26.40	0.54	1.02	26.31	0.64	1.23
BPURNN		25.92	0.06	0.11	25.70	0.03	0.05
CDF62A		25.82	-0.04	-0.08	25.40	-0.27	-0.52
FFR8F4		25.52	-0.34	-0.64	25.53	-0.14	-0.27
GJ9UP3		25.97	0.11	0.21	25.72	0.05	0.09
GPEP93	*	26.67	0.81	1.54	26.01	0.34	0.65
J2YTMD		25.72	-0.14	-0.26	25.40	-0.27	-0.52
JENQQW		25.67	-0.19	-0.37	25.45	-0.22	-0.42
JKTME3		25.70	-0.16	-0.30	25.06	-0.61	-1.18
KE64UY		26.55	0.69	1.30	26.23	0.56	1.08
KKPENU		26.04	0.18	0.33	25.87	0.20	0.39
KKQCYQ		26.22	0.36	0.68	25.82	0.15	0.29
KLKXRG		25.55	-0.31	-0.59	25.30	-0.38	-0.72
KLYFHF	X	23.96	-1.90	-3.60	24.71	-0.97	-1.86
L7RMK6		26.68	0.82	1.56	26.44	0.77	1.48
LB2TC6		26.24	0.38	0.71	26.22	0.54	1.05
LZGJMB	X	26.82	0.96	1.82	27.33	1.66	3.20
NA2MRF		24.59	-1.27	-2.40	24.68	-0.99	-1.91

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

WebCode	Data Flag	Sample C27			Sample C28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
P3TMM4		25.10	-0.76	-1.45	25.13	-0.54	-1.04
PKCEW2		26.12	0.26	0.49	26.04	0.37	0.71
PRDTFG		25.47	-0.39	-0.75	25.30	-0.37	-0.72
PT9ATE		25.04	-0.82	-1.55	25.27	-0.40	-0.78
Q9YJ84		25.69	-0.17	-0.31	25.40	-0.27	-0.52
QUYRA7		25.02	-0.84	-1.59	24.77	-0.90	-1.73
RBY3T3	X	25.60	-0.26	-0.49	24.62	-1.05	-2.03
REJU3K		25.77	-0.09	-0.17	25.59	-0.08	-0.16
RFWKTF		26.75	0.89	1.68	26.62	0.95	1.82
TG397K		26.46	0.60	1.14	26.20	0.53	1.02
UMPDFZ		26.02	0.16	0.29	25.66	-0.01	-0.02
W8NHV6		25.70	-0.16	-0.30	25.56	-0.11	-0.22
WDAH8B		25.09	-0.77	-1.46	24.95	-0.72	-1.38
XA6AEK		26.11	0.25	0.47	26.01	0.34	0.66
XFY78H		25.47	-0.39	-0.74	25.17	-0.50	-0.97
XVNART		25.70	-0.16	-0.30	25.80	0.13	0.25
YCNQ8P		26.24	0.38	0.72	26.14	0.47	0.90
YWEXL8		25.37	-0.49	-0.92	25.38	-0.30	-0.57
Z6HKJX		25.48	-0.38	-0.71	25.33	-0.34	-0.65
ZWDGQM		26.18	0.32	0.61	26.18	0.51	0.98

**Summary Statistics**

Grand Means

25.860 MPa

25.671 MPa

Std Dev Btwn Labs

0.529 MPa

0.519 MPa

Statistics based on 48 of 52 reporting participants

Sample C27: HIPS &amp; Sample C28: HIPS

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

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

B9PKAM (X) - Data for both samples are low.

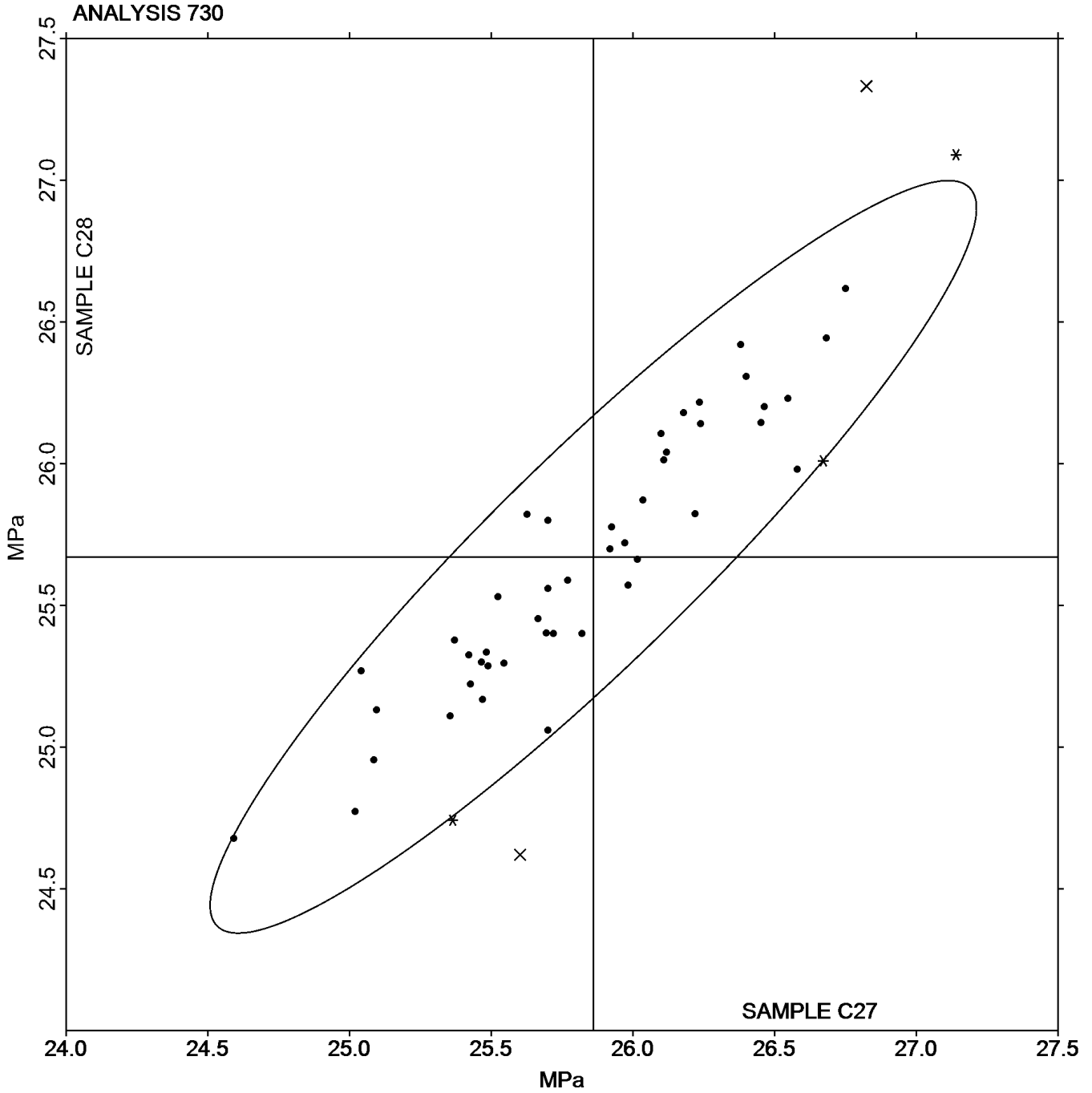
KLYFHF (X) - Inconsistent in testing between samples, data for Sample C27 are low.

LZGJMB (X) - Inconsistent in testing between samples, data for Sample C28 are high.

RBY3T3 (X) - Inconsistent in testing between samples.

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

Grand Mean Sample C27: 25.860 MPa      Grand Mean Sample C28: 25.671 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 C27			Sample C28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2GTDMMX		20.14	-0.05	-0.12	19.70	0.06	0.15
39FPJN		20.33	0.14	0.34	19.90	0.26	0.64
3BKFMH		20.52	0.33	0.78	20.08	0.44	1.07
3JJPAB		19.85	-0.34	-0.81	19.66	0.02	0.05
6TEUYT		20.36	0.17	0.39	19.48	-0.15	-0.37
6XU8YF		19.99	-0.20	-0.46	19.25	-0.39	-0.95
74RDTA		20.55	0.36	0.84	19.66	0.02	0.05
7LAC7U	X	21.30	1.11	2.61	21.22	1.59	3.84
7P8TJN		19.92	-0.27	-0.65	19.28	-0.36	-0.86
8BP74N		19.60	-0.59	-1.40	19.32	-0.31	-0.76
8KCA3B		20.68	0.49	1.15	20.60	0.96	2.33
8VGCCE		20.34	0.15	0.35	19.38	-0.26	-0.62
8YUBB2	X	25.83	5.64	13.26	26.06	6.43	15.57
BHW2CE		20.39	0.20	0.46	19.90	0.27	0.65
BPURNN	X	22.50	2.31	5.44	22.70	3.06	7.42
CDF62A		19.80	-0.39	-0.92	19.36	-0.28	-0.67
FFR8F4		20.12	-0.07	-0.16	18.94	-0.70	-1.70
GJ9UP3		20.55	0.36	0.84	20.03	0.39	0.94
GPEP93		20.98	0.79	1.86	19.83	0.20	0.48
J2YTMD		20.82	0.63	1.48	19.40	-0.24	-0.57
JENQQW		19.79	-0.40	-0.94	19.53	-0.10	-0.25
JKTME3		20.00	-0.19	-0.45	18.88	-0.76	-1.83
KE64UY		20.84	0.65	1.54	20.28	0.65	1.56
KKPENU		20.34	0.15	0.35	19.83	0.19	0.47
KKQCYQ		20.78	0.59	1.40	20.01	0.38	0.92
KLYFHF		19.66	-0.53	-1.25	19.91	0.27	0.66
LB2TC6		20.19	0.00	0.00	19.86	0.23	0.55
LZGJMB		20.64	0.45	1.07	20.34	0.70	1.70
NA2MRF	*	19.01	-1.18	-2.78	18.79	-0.84	-2.05
P3TMM4		20.15	-0.04	-0.09	19.73	0.10	0.24
PKCEW2		20.28	0.09	0.21	19.68	0.04	0.11
PRDTFG		20.11	-0.08	-0.18	19.53	-0.11	-0.27

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

WebCode	Data Flag	Sample C27			Sample C28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PT9ATE	*	19.66	-0.53	-1.25	20.08	0.44	1.07
Q9YJ84		20.08	-0.11	-0.25	19.44	-0.20	-0.49
QUYRA7		19.82	-0.37	-0.88	18.80	-0.83	-2.02
REJU3K		20.17	-0.02	-0.04	19.66	0.02	0.06
RFWKTF		21.22	1.03	2.42	20.25	0.61	1.49
TG397K		19.92	-0.27	-0.63	19.63	-0.01	-0.02
UMPDFZ		20.22	0.03	0.06	19.39	-0.25	-0.61
W8NHV6	X	18.39	-1.80	-4.24	17.72	-1.92	-4.65
WDAH8B		19.86	-0.33	-0.79	19.37	-0.27	-0.65
XA6AEK		20.54	0.35	0.82	20.00	0.36	0.88
XFY78H		20.12	-0.07	-0.17	19.61	-0.02	-0.06
XVNART		19.70	-0.49	-1.15	19.34	-0.30	-0.72
YCNQ8P		20.18	-0.01	-0.03	19.70	0.06	0.15
Z6HKJX		19.77	-0.42	-0.98	19.05	-0.58	-1.42
ZWDGQM		20.20	0.01	0.02	19.90	0.26	0.64

Summary Statistics	
Grand Means	20.191 MPa      19.636 MPa
Stnd Dev Btwn Labs	0.425 MPa      0.413 MPa
Statistics based on 43 of 47 reporting participants	

Sample C27: HIPS & Sample C28: HIPS

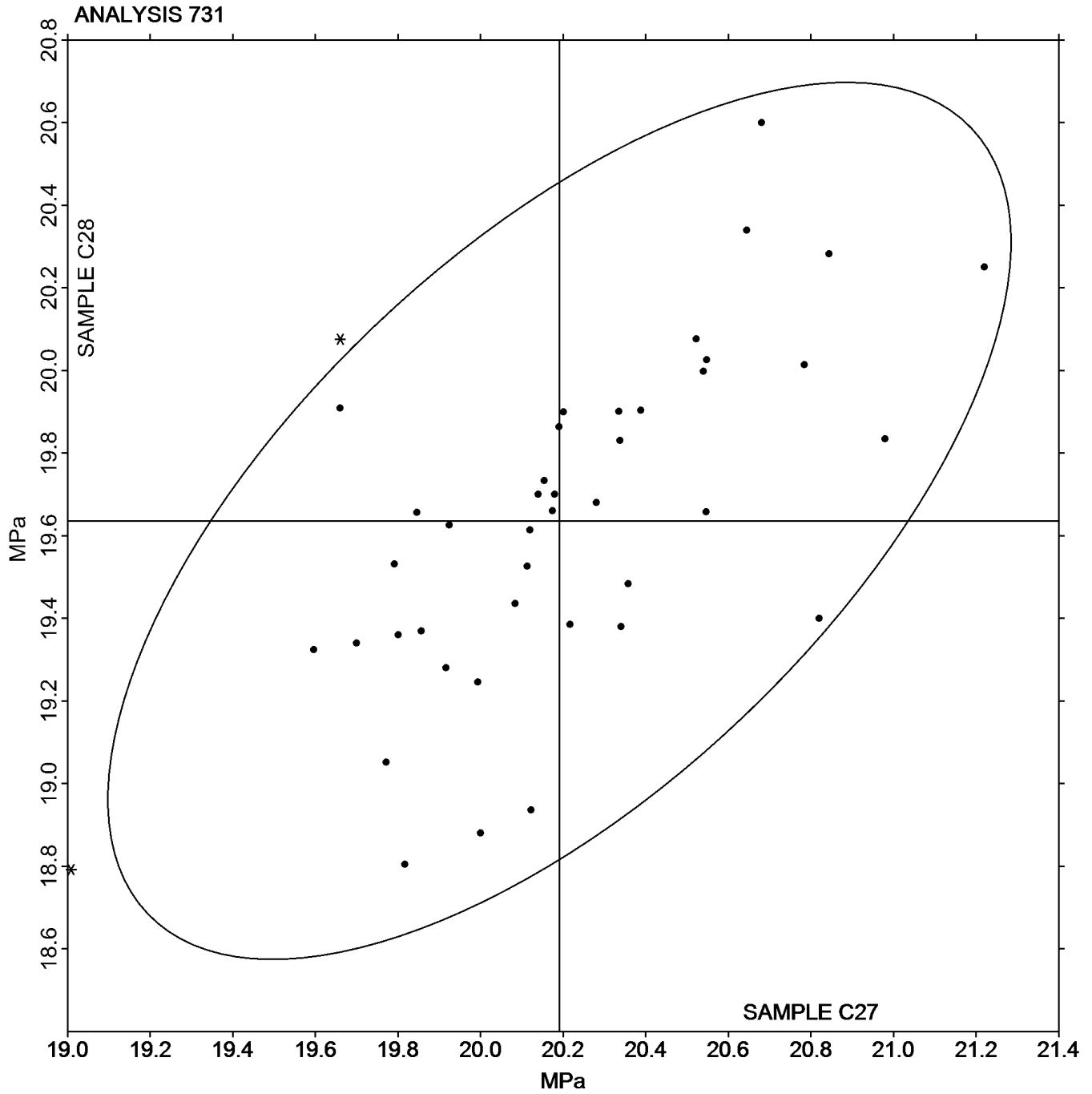
**Comments on assigned Data Flags for Test #731**

- 7LAC7U (X) - Data for Sample C28 are high.
- 8YUBB2 (X) - Data for both samples are high.
- BPURNN (X) - Data for both samples are high. Also inconsistent in testing within Sample C27.
- W8NHV6 (X) - Data for both samples are low.

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

Grand Mean Sample C27: 20.191 MPa

Grand Mean Sample C28: 19.636 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 C27			Sample C28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
28Q4B8		1.400	0.025	0.54	1.380	0.033	0.55
2GTDMX		1.334	-0.041	-0.90	1.352	0.005	0.08
39FPJN		1.358	-0.017	-0.37	1.365	0.018	0.30
3BKFMH		1.396	0.021	0.46	1.376	0.029	0.48
3JJPAB		1.402	0.027	0.59	1.360	0.013	0.21
6TEUYT		1.398	0.023	0.50	1.344	-0.003	-0.06
6XU8YF		1.334	-0.042	-0.91	1.301	-0.047	-0.79
74RDTA		1.312	-0.063	-1.39	1.252	-0.095	-1.61
7LAC7U	*	1.448	0.073	1.60	1.496	0.149	2.51
7P8TJN		1.418	0.043	0.94	1.356	0.009	0.15
8BP74N		1.360	-0.015	-0.33	1.312	-0.035	-0.60
8KCA3B		1.432	0.057	1.25	1.420	0.073	1.23
8VGCCE		1.400	0.025	0.54	1.360	0.013	0.21
B9PKAM	X	3.000	1.625	35.63	3.000	1.653	27.91
BHW2CE		1.400	0.025	0.54	1.366	0.019	0.31
BPURNN		1.336	-0.039	-0.86	1.290	-0.057	-0.97
CDF62A		1.370	-0.005	-0.11	1.332	-0.015	-0.26
FFR8F4		1.360	-0.015	-0.33	1.338	-0.009	-0.16
GJ9UP3		1.344	-0.031	-0.68	1.362	0.015	0.25
GPEP93		1.392	0.017	0.37	1.372	0.025	0.42
J2YTMD		1.350	-0.025	-0.55	1.294	-0.053	-0.90
JENQQW		1.418	0.043	0.94	1.350	0.003	0.04
JKTME3		1.300	-0.075	-1.65	1.260	-0.087	-1.48
KE64UY		1.298	-0.077	-1.69	1.212	-0.135	-2.28
KKPENU		1.396	0.021	0.46	1.316	-0.031	-0.53
KKQCYQ		1.356	-0.019	-0.42	1.330	-0.017	-0.29
KLKXRG		1.290	-0.085	-1.87	1.246	-0.101	-1.71
KLYFHF	X	1.174	-0.201	-4.41	1.236	-0.111	-1.88
L7RMK6		1.386	0.011	0.24	1.352	0.005	0.08
LB2TC6		1.414	0.039	0.85	1.424	0.077	1.29
NA2MRF		1.392	0.017	0.37	1.350	0.003	0.04
P3TMM4		1.384	0.009	0.19	1.376	0.029	0.48



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

WebCode	Data Flag	Sample C27			Sample C28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PKCEW2		1.488	0.113	2.47	1.466	0.119	2.00
PRDTFG	*	1.500	0.125	2.74	1.500	0.153	2.58
PT9ATE		1.352	-0.023	-0.51	1.368	0.021	0.35
Q9YJ84		1.330	-0.045	-0.99	1.314	-0.033	-0.56
QUYRA7		1.320	-0.055	-1.21	1.292	-0.055	-0.94
RBY3T3		1.320	-0.055	-1.21	1.254	-0.093	-1.58
REJU3K		1.380	0.005	0.11	1.332	-0.015	-0.26
RFWKTF		1.335	-0.040	-0.89	1.326	-0.022	-0.37
TG397K		1.364	-0.011	-0.24	1.310	-0.037	-0.63
UMPDFZ		1.382	0.007	0.15	1.340	-0.007	-0.12
W8NHV6		1.423	0.048	1.05	1.393	0.045	0.77
WDAH8B		1.420	0.045	0.98	1.420	0.073	1.23
XA6AEK		1.344	-0.031	-0.68	1.318	-0.029	-0.50
XFY78H		1.322	-0.054	-1.17	1.283	-0.065	-1.09
XVNART		1.420	0.045	0.98	1.360	0.013	0.21
YCNQ8P		1.400	0.025	0.54	1.400	0.053	0.89
YWEXL8		1.396	0.021	0.46	1.422	0.075	1.26
Z6HKJX		1.352	-0.023	-0.51	1.332	-0.015	-0.26
ZWDGQM		1.358	-0.017	-0.38	1.348	0.001	0.01

**Summary Statistics**

Grand Means

1.3752 Percent

1.3474 Percent

Std Dev Btwn Labs

0.0456 Percent

0.0592 Percent

Statistics based on 49 of 51 reporting participants

Sample C27: HIPS &amp; Sample C28: HIPS

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

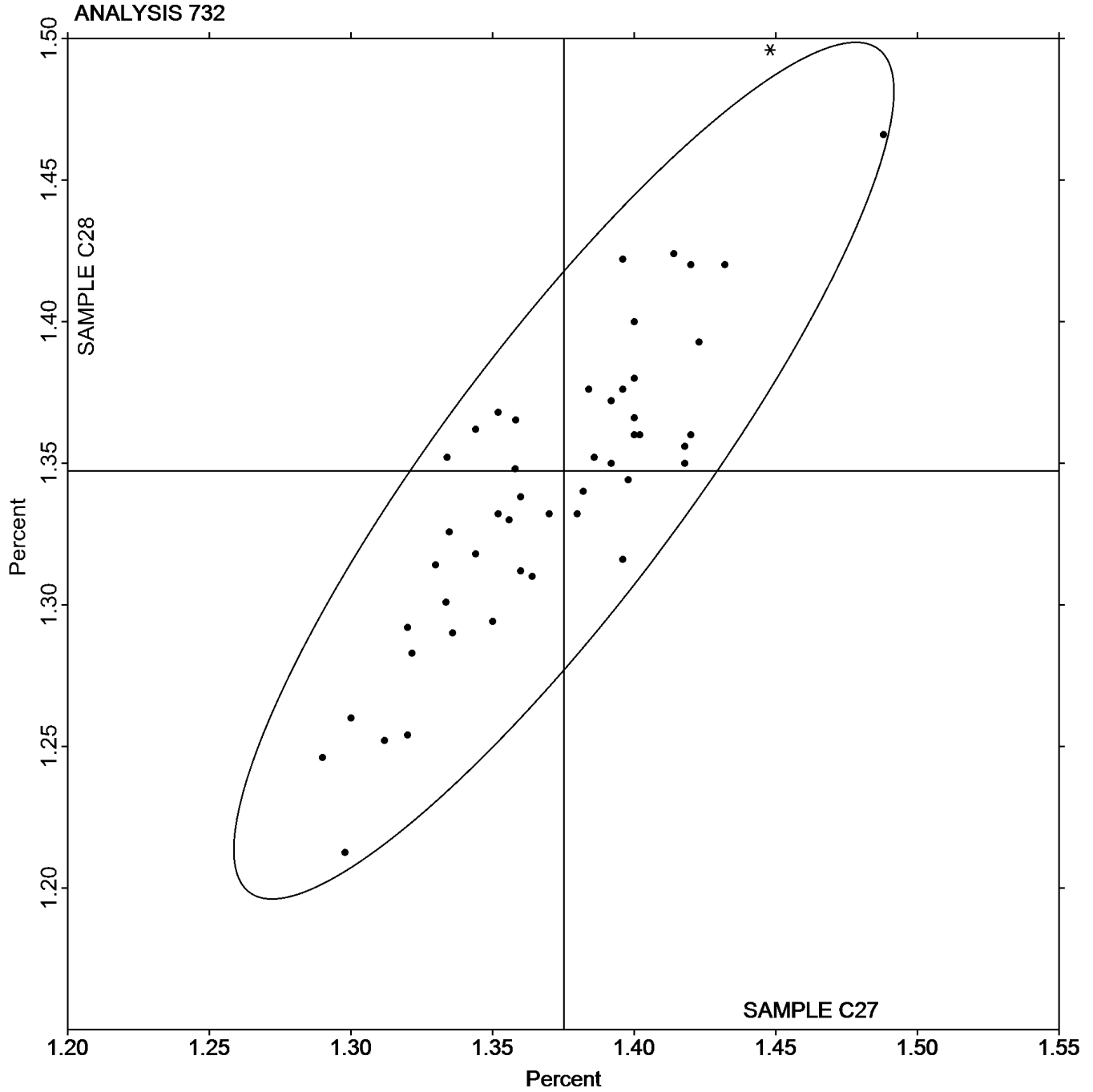
B9PKAM (X) - Data for both samples are high.

KLYFHF (X) - Data for Sample C27 are low.

Plastics Interlaboratory Testing Program  
Analysis 732  
Percent Strain at Yield

Grand Mean Sample C27: 1.3752 Percent

Grand Mean Sample C28: 1.3474 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 C27			Sample C28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
28Q4B8		2,038	-51	-0.65	2,094	-21	-0.30
2GTDMX	*	2,006	-83	-1.06	1,977	-137	-1.97
39FPJN		2,036	-53	-0.67	2,077	-37	-0.53
3BKFMH		2,097	8	0.11	2,132	18	0.25
3JJPAB		2,073	-16	-0.20	2,097	-17	-0.25
6TEUYT		2,079	-10	-0.12	2,144	30	0.43
6XU8YF		2,153	64	0.83	2,183	68	0.98
74RDTA		2,006	-83	-1.06	2,071	-43	-0.62
7LAC7U		2,276	187	2.39	2,256	142	2.03
7P8TJN		2,022	-67	-0.86	2,088	-26	-0.38
8BP74N		2,051	-38	-0.49	2,151	37	0.53
8KCA3B		2,099	10	0.12	2,154	40	0.57
8VGCCE		2,043	-46	-0.59	2,049	-65	-0.94
B9PKAM		1,979	-110	-1.40	2,041	-74	-1.06
BHW2CE		2,147	58	0.75	2,165	51	0.73
BPURNN	*	2,310	221	2.84	2,287	173	2.48
CDF62A		2,003	-86	-1.10	2,036	-79	-1.13
FFR8F4		2,068	-21	-0.27	2,088	-26	-0.38
GPEP93		2,095	6	0.08	2,106	-8	-0.11
J2YTMD		2,056	-33	-0.42	2,109	-5	-0.08
JENQQW		2,001	-88	-1.12	2,030	-84	-1.21
JKTME3		2,028	-61	-0.78	2,072	-42	-0.61
KE64UY	X	4,211	2,122	27.19	3,395	1,281	18.38
KKPENU		2,140	51	0.65	2,158	43	0.62
KKQCYQ	*	2,268	179	2.30	2,215	101	1.44
KLYFHF		2,234	145	1.85	2,197	83	1.19
LB2TC6		2,067	-22	-0.28	2,066	-49	-0.70
NA2MRF		2,133	44	0.57	2,136	22	0.32
P3TMM4	*	2,041	-48	-0.61	1,986	-129	-1.85
PKCEW2		2,076	-13	-0.16	2,124	10	0.14
PRDTFG		2,163	74	0.95	2,191	76	1.09
PT9ATE		2,065	-24	-0.31	2,059	-55	-0.79

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

WebCode	Data Flag	Sample C27			Sample C28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
Q9YJ84		2,081	-8	-0.10	2,136	22	0.31
QUYRA7		2,076	-13	-0.16	2,084	-30	-0.43
RBY3T3		2,123	34	0.44	2,148	34	0.49
REJU3K		2,108	19	0.25	2,144	30	0.43
RFWKTF		2,204	115	1.48	2,207	93	1.33
TG397K	X	2,280	191	2.45	2,410	295	4.24
UMPDFZ		2,091	2	0.03	2,114	-1	-0.01
W8NHV6		2,013	-76	-0.98	2,021	-93	-1.33
WDAH8B		2,047	-42	-0.54	2,118	4	0.06
XA6AEK		2,023	-66	-0.84	2,049	-65	-0.93
XFY78H		2,050	-39	-0.50	2,084	-30	-0.43
XVNART		2,133	44	0.56	2,175	61	0.87
YCNQ8P		2,052	-37	-0.47	2,112	-2	-0.03
YWEXL8		1,959	-130	-1.66	1,965	-150	-2.15
Z6HKJX		2,103	14	0.19	2,170	56	0.80
ZWDGQM		2,172	84	1.07	2,191	77	1.11

Summary Statistics	
Grand Means	2,088.9 MPa
Std Dev Btwn Labs	78.1 MPa
	2,114.4 MPa
	69.7 MPa
Statistics based on 46 of 48 reporting participants	

Sample C27: HIPS & Sample C28: HIPS

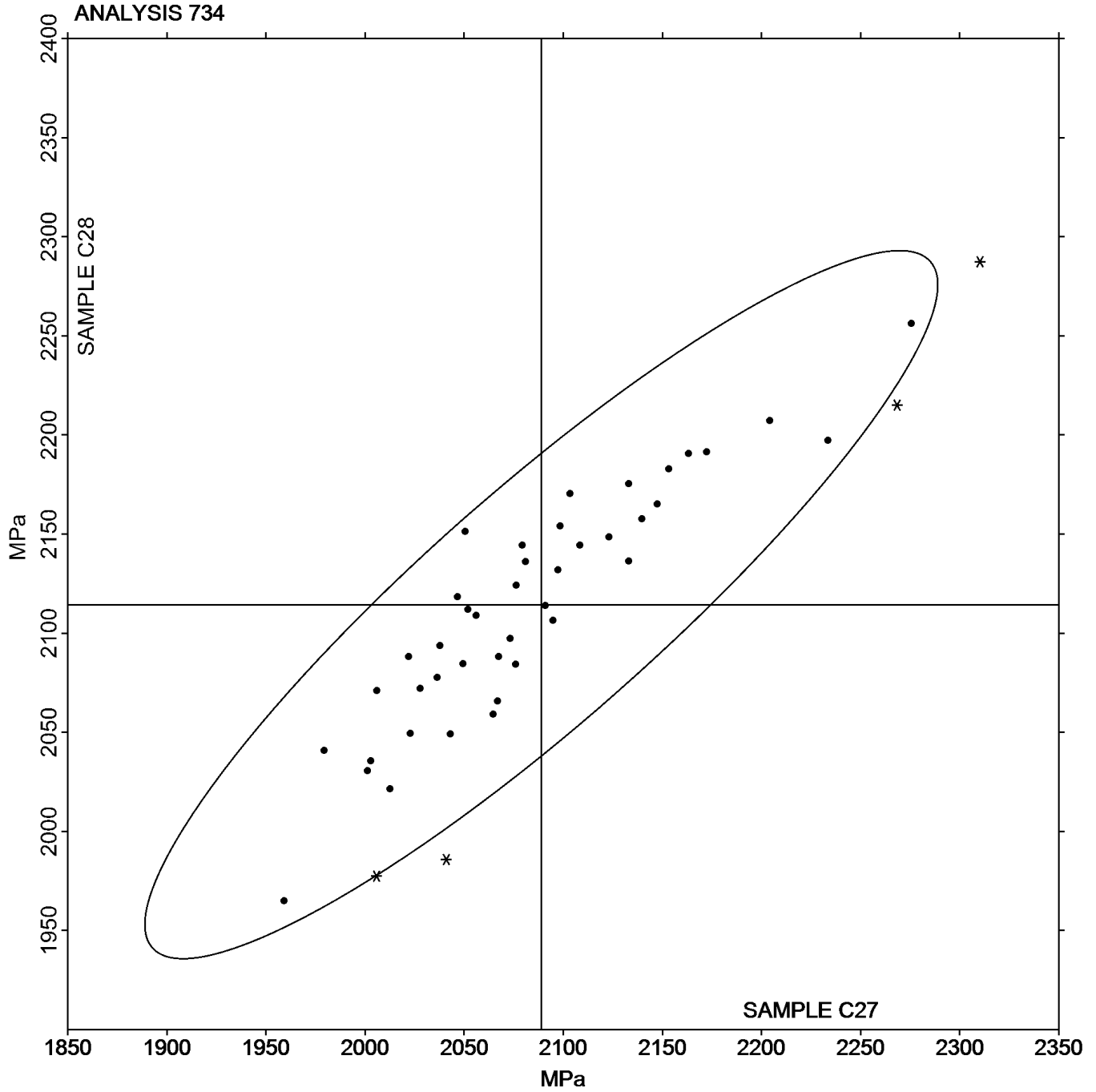
**Comments on assigned Data Flags for Test #734**

KE64UY (X) - Data for both samples are high. Also inconsistent in testing within both samples.

TG397K (X) - Inconsistent in testing between samples, data for Sample C28 are high. Also inconsistent in testing within both samples.

Plastics Interlaboratory Testing Program  
Analysis 734  
Modulus of Elasticity - MPa

Grand Mean Sample C27: 2,088.91 MPa      Grand Mean Sample C28: 2,114.39 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 J27			Sample J28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2RDPVU		347.9	-19.5	-1.11	349.2	-17.2	-1.02
3JJPAB	X	369.6	2.2	0.13	342.3	-24.1	-1.43
3UK8TQ		355.3	-12.1	-0.69	356.1	-10.3	-0.61
4BZ3EC		352.4	-15.0	-0.85	355.1	-11.2	-0.67
4FEH7N		369.1	1.7	0.10	371.1	4.8	0.28
4XURAB		357.2	-10.2	-0.58	353.3	-13.1	-0.78
6MTLTG		362.4	-5.0	-0.28	372.4	6.0	0.36
8ENRME		411.9	44.5	2.52	406.7	40.3	2.40
8GXNZW		359.3	-8.1	-0.46	358.8	-7.6	-0.45
8L9PF9		370.3	2.9	0.17	359.4	-7.0	-0.42
9JCQEE		345.6	-21.8	-1.24	347.4	-19.0	-1.13
ABJPPN	X	9,650.9	9,283.5	526.93	9,746.6	9,380.3	557.74
AQRUZ8		335.1	-32.3	-1.84	336.6	-29.7	-1.77
AQW7N4		383.4	16.0	0.91	379.0	12.6	0.75
BHW2CE		350.4	-17.0	-0.96	347.7	-18.6	-1.11
BTH99H		388.8	21.4	1.22	387.9	21.5	1.28
EXX8TE		385.6	18.1	1.03	385.4	19.0	1.13
FGLXJX	*	350.8	-16.6	-0.94	338.3	-28.0	-1.67
GFPTFN	X	602.0	234.6	13.32	579.9	213.6	12.70
GGHPWV		386.8	19.4	1.10	382.7	16.3	0.97
GGJM8R		370.8	3.4	0.19	373.1	6.8	0.40
GPEP93	X	423.1	55.7	3.16	427.6	61.2	3.64
GQ9DMR		376.3	8.9	0.51	373.6	7.3	0.43
HDECQH	X	477.2	109.8	6.23	423.8	57.4	3.42
HM3EP6		365.2	-2.2	-0.13	364.2	-2.2	-0.13
J2YTMD		351.1	-16.3	-0.93	350.0	-16.4	-0.97
J8METE		358.6	-8.9	-0.50	357.8	-8.6	-0.51
JENQQW		348.3	-19.1	-1.09	348.0	-18.4	-1.09
JFHE87		366.2	-1.2	-0.07	366.9	0.5	0.03
JFXQRW		375.7	8.3	0.47	375.9	9.5	0.57
JKTME3	X	131.8	-235.6	-13.37	131.2	-235.2	-13.98
JNCGC3		328.8	-38.6	-2.19	335.6	-30.8	-1.83

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

WebCode	Data Flag	Sample J27			Sample J28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
JPLQ4Z		367.2	-0.2	-0.01	367.9	1.6	0.09
JWPQKH		379.4	12.0	0.68	375.6	9.3	0.55
KKQCYQ		364.5	-2.9	-0.17	366.4	0.0	0.00
KLKXRG		368.5	1.0	0.06	370.6	4.2	0.25
KNA9KV	X	285.0	-82.4	-4.68	268.5	-97.8	-5.82
KQUZUC	X	330.8	-36.6	-2.08	349.0	-17.4	-1.03
L7RMK6		395.5	28.1	1.59	396.8	30.5	1.81
LLXWFY		357.5	-10.0	-0.57	349.0	-17.4	-1.03
MDZLKT		371.2	3.8	0.22	359.9	-6.5	-0.38
NGWPUR		375.8	8.4	0.48	380.7	14.4	0.85
NHQ9XE		364.5	-2.9	-0.16	365.4	-0.9	-0.06
PT9ATE		379.5	12.1	0.69	379.8	13.4	0.80
Q9YJ84		371.9	4.5	0.25	372.5	6.1	0.36
QDAM2C		375.2	7.7	0.44	366.8	0.4	0.03
QG93CL		376.3	8.8	0.50	377.8	11.4	0.68
QUYRA7		372.4	5.0	0.28	372.9	6.5	0.39
QYATNH		401.2	33.7	1.92	394.8	28.4	1.69
REJU3K		369.3	1.9	0.11	369.5	3.2	0.19
REWP4H	X	387.4	20.0	1.13	367.8	1.4	0.09
RHGK34		365.4	-2.0	-0.12	368.0	1.7	0.10
TM88GA		401.5	34.1	1.93	390.5	24.1	1.44
VADPF2		376.0	8.6	0.49	376.6	10.3	0.61
XB2PQH		325.7	-41.8	-2.37	324.8	-41.6	-2.47
XBZU6Q		370.2	2.8	0.16	371.1	4.8	0.28
ZWDGQM		353.9	-13.5	-0.77	355.3	-11.0	-0.65

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

**Summary Statistics**

Grand Means

367.42 ksi

366.35 ksi

Std Dev Btwn Labs

17.62 ksi

16.82 ksi

Statistics based on 48 of 57 reporting participants

Sample J27: ABS &amp; Sample J28: ABS

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

3JJPAB (X) - Inconsistent in testing between samples and inconsistent in testing within Sample J27.

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

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

GPEP93 (X) - Data for both samples are high. Also inconsistent in testing within both samples.

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

JKTME3 (X) - Data for both samples are low.

KNA9KV (X) - Data for both samples are low. Also inconsistent in testing within both samples.

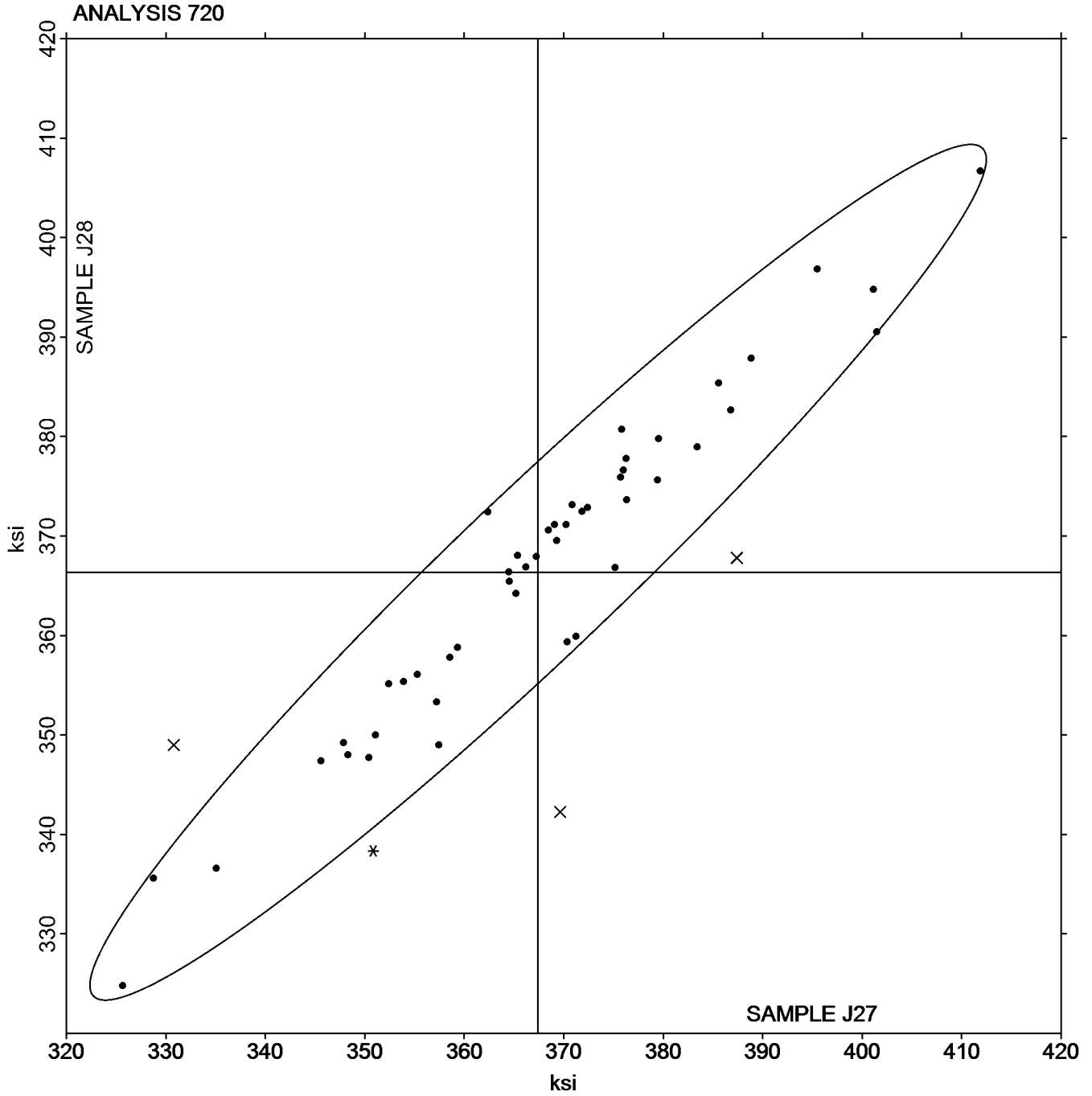
KQUZUC (X) - Inconsistent in testing between samples.

REWP4H (X) - Inconsistent in testing between samples and inconsistent in testing within Sample J28.



Plastics Interlaboratory Testing Program  
Analysis 720  
Flexural Modulus- ksi

Grand Mean Sample J27: 367.42 ksi    Grand Mean Sample J28: 366.35 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 J27			Sample J28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2RDPVU		10,317	-662	-1.56	10,432	-495	-1.16
3JJPAB	*	10,930	-49	-0.12	10,405	-523	-1.22
4FEH7N		10,970	-9	-0.02	11,006	78	0.18
4XURAB		11,281	302	0.71	11,292	364	0.85
8ENRME	*	12,192	1,213	2.86	12,260	1,333	3.12
8GXNZW		11,200	221	0.52	11,169	241	0.56
8L9PF9		11,136	157	0.37	10,762	-166	-0.39
9JCQEE		10,697	-282	-0.66	10,751	-176	-0.41
AQRUZ8		11,029	50	0.12	10,785	-143	-0.33
AQW7N4		11,178	199	0.47	10,939	11	0.03
BHW2CE		10,965	-14	-0.03	11,049	121	0.28
BTH99H		11,017	38	0.09	10,794	-134	-0.31
EXX8TE		10,976	-3	-0.01	10,907	-20	-0.05
FGLXJX		10,823	-156	-0.37	10,759	-169	-0.40
GFPTFN		11,861	882	2.08	11,554	626	1.47
GPEP93		11,737	758	1.79	11,890	963	2.25
HDECQH		10,314	-665	-1.57	10,420	-508	-1.19
HM3EP6		10,918	-61	-0.14	10,800	-127	-0.30
J2YTMD		10,446	-533	-1.26	10,591	-337	-0.79
JENQQW		10,469	-510	-1.21	10,592	-336	-0.79
JFHE87		10,364	-615	-1.45	10,223	-705	-1.65
JFXQRW		10,874	-105	-0.25	10,978	50	0.12
JKTME3	X	6,324	-4,655	-10.99	6,376	-4,552	-10.66
JPLQ4Z		10,700	-279	-0.66	10,812	-115	-0.27
JWPQKH		10,322	-657	-1.55	10,364	-563	-1.32
KKQCYQ		11,168	189	0.45	11,217	289	0.68
KNA9KV	*	10,465	-514	-1.21	9,982	-946	-2.21
KQUZUC		10,458	-521	-1.23	10,748	-180	-0.42
LLXWFY		10,930	-49	-0.12	10,763	-165	-0.39
M7JWXE		10,969	-10	-0.02	10,758	-169	-0.40
MDZLKT		10,716	-263	-0.62	10,469	-458	-1.07
NGWPUR		11,131	152	0.36	11,217	290	0.68

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

WebCode	Data Flag	Sample J27			Sample J28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
NHQ9XE		11,267	288	0.68	11,302	374	0.88
PT9ATE		11,117	138	0.32	11,125	198	0.46
Q9YJ84		11,098	119	0.28	11,194	266	0.62
QDAM2C		10,708	-271	-0.64	10,555	-373	-0.87
QG93CL		11,016	37	0.09	11,012	85	0.20
QUYRA7		11,009	30	0.07	11,162	234	0.55
QYATNH		11,664	685	1.62	11,532	605	1.42
REJU3K		11,112	133	0.31	11,098	170	0.40
REWP4H		11,856	877	2.07	11,449	522	1.22
RHGK34		10,938	-41	-0.10	11,143	215	0.50
TM88GA		11,310	331	0.78	10,994	66	0.16
XB2PQH		10,593	-386	-0.91	10,533	-395	-0.92
XBZU6Q		11,052	73	0.17	11,146	218	0.51
ZWDGQM		10,763	-216	-0.51	10,814	-114	-0.27

Summary Statistics	
Grand Means	10,979.0 psi      10,927.7 psi
Stnd Dev Btwn Labs	423.6 psi      427.1 psi
Statistics based on 45 of 46 reporting participants	

Sample J27: ABS & Sample J28: ABS

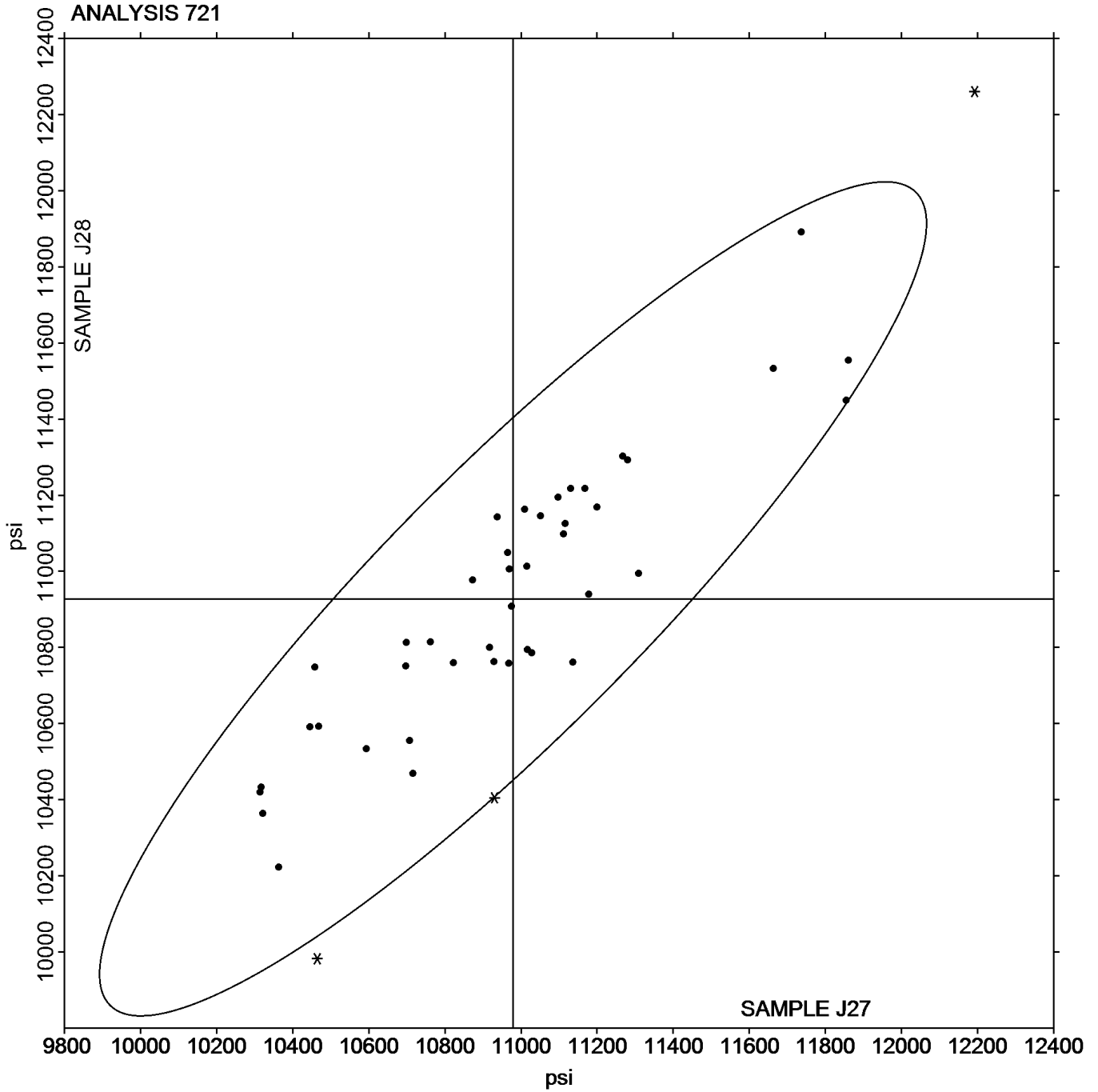
**Comments on assigned Data Flags for Test #721**

JKTME3 (X) - Data for both samples are low.

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

Grand Mean Sample J27: 10,979.03 psi

Grand Mean Sample J28: 10,927.69 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 J27			Sample J28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2RDPVU		10,437	-562	-1.61	10,529	-444	-1.32
3JJPAB	*	10,944	-55	-0.16	10,417	-555	-1.65
3UK8TQ		10,650	-349	-1.00	10,696	-277	-0.82
4BZ3EC		10,714	-285	-0.82	10,914	-59	-0.18
4FEH7N		11,002	3	0.01	11,037	65	0.19
4XURAB		11,299	300	0.86	11,330	357	1.06
6MTLTG		10,700	-299	-0.86	10,980	7	0.02
8ENRME	X	12,777	1,778	5.09	12,901	1,928	5.75
8GXNZW		11,224	225	0.65	11,194	221	0.66
8L9PF9		11,163	164	0.47	10,810	-162	-0.48
9JCQEE		10,715	-284	-0.81	10,766	-206	-0.62
ABJPPN	X	32,721	21,722	62.19	32,924	21,951	65.42
AQRUZ8		11,029	30	0.09	10,785	-187	-0.56
AQW7N4		11,198	199	0.57	10,959	-13	-0.04
BHW2CE		10,991	-8	-0.02	11,069	97	0.29
BTH99H		11,080	81	0.23	10,907	-65	-0.19
EXX8TE		11,064	65	0.19	11,005	32	0.10
FGLXJX		10,856	-143	-0.41	10,799	-174	-0.52
GFPTFN	*	11,887	888	2.54	11,560	587	1.75
GGHPWV		11,487	488	1.40	11,487	514	1.53
GGJM8R		11,203	204	0.59	11,116	143	0.43
GQ9DMR		11,558	559	1.60	11,513	540	1.61
HDECQH		10,473	-526	-1.50	10,477	-496	-1.48
HM3EP6		10,955	-44	-0.13	10,860	-113	-0.34
J2YTMD		10,512	-487	-1.39	10,637	-335	-1.00
JENQQW		10,475	-524	-1.50	10,607	-365	-1.09
JFXQRW		10,940	-59	-0.17	11,037	65	0.19
JNCGC3	*	11,958	959	2.75	11,948	975	2.91
JPLQ4Z		10,752	-247	-0.71	10,848	-124	-0.37
JWPQKH		10,383	-616	-1.76	10,405	-568	-1.69
KKQCYQ		11,196	197	0.56	11,251	278	0.83
KLKXRG	X	4,778	-6,221	-17.81	4,834	-6,138	-18.29

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

WebCode	Data Flag	Sample J27			Sample J28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
KNA9KV	X	10,680	-319	-0.91	10,048	-924	-2.75
KQUZUC		10,492	-507	-1.45	10,788	-185	-0.55
L7RMK6		11,177	178	0.51	11,288	315	0.94
LLXWFY		10,960	-39	-0.11	10,793	-180	-0.54
M7JWXE		10,994	-5	-0.01	10,786	-186	-0.56
MDZLKT		10,716	-283	-0.81	10,469	-503	-1.50
NHQ9XE		11,320	321	0.92	11,355	382	1.14
PT9ATE		11,127	128	0.37	11,132	159	0.48
Q9YJ84		11,119	120	0.34	11,201	229	0.68
QDAM2C		10,789	-210	-0.60	10,708	-265	-0.79
QUYRA7		11,069	70	0.20	11,209	237	0.71
REJU3K		11,090	91	0.26	11,057	85	0.25
RHGK34		10,954	-46	-0.13	11,150	177	0.53
TM88GA		11,332	333	0.95	11,042	69	0.21
XB2PQH		10,805	-194	-0.56	10,563	-410	-1.22
XBZU6Q		11,169	170	0.49	11,309	337	1.00

Summary Statistics	
Grand Means	10,999.1 psi      10,972.6 psi
Std Dev Btwn Labs	349.3 psi      335.5 psi
Statistics based on 44 of 48 reporting participants	

Sample J27: ABS & Sample J28: ABS

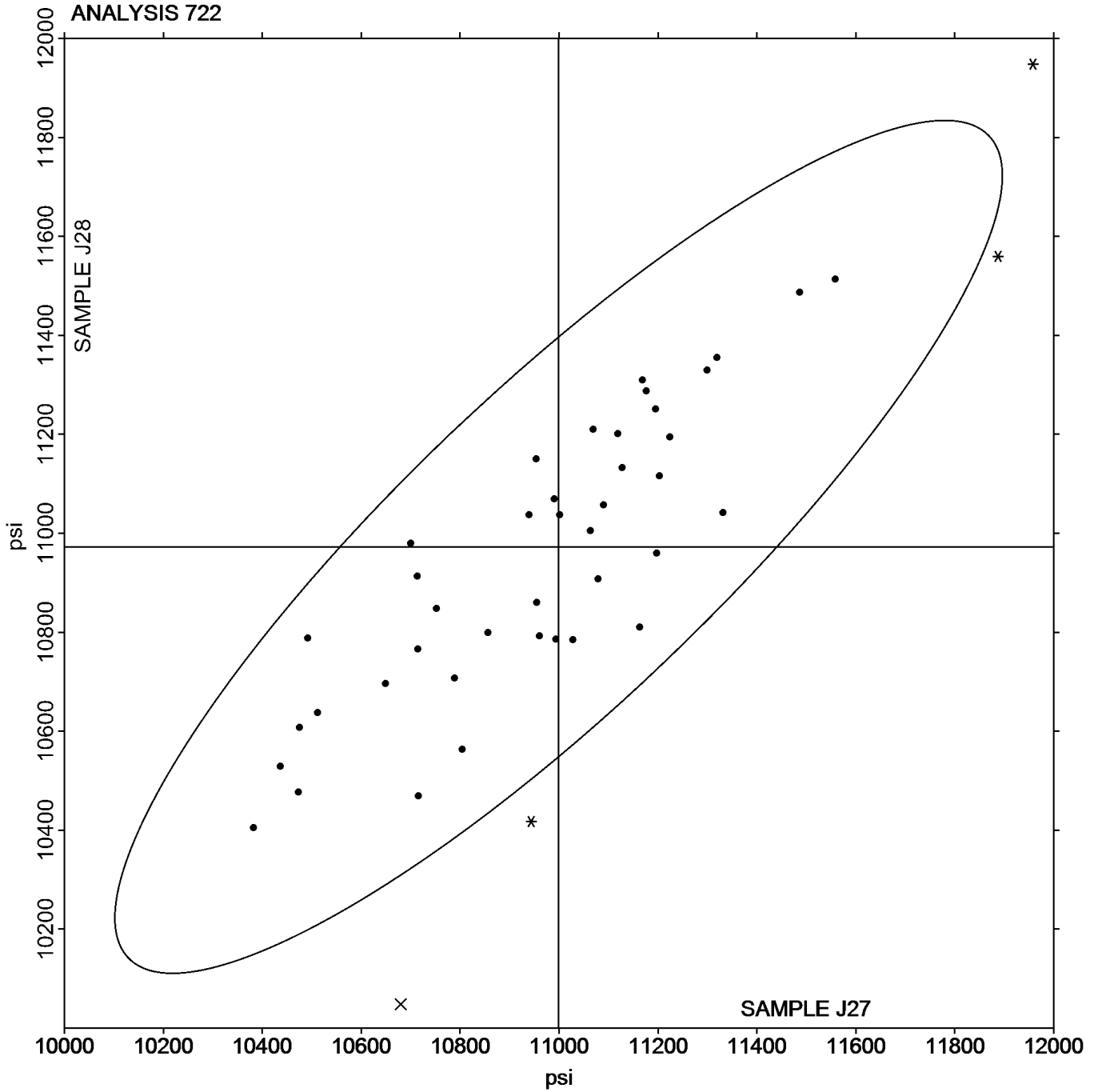
**Comments on assigned Data Flags for Test #722**

- 8ENRME (X) - Data for both samples are high. Also inconsistent in testing within both samples.
- ABJPPN (X) - Data for both samples are high. Also inconsistent in testing within Sample J27.
- KLKXRG (X) - Data for both samples are low.
- KNA9KV (X) - Inconsistent in testing between samples, data for Sample J28 are low.

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

Grand Mean Sample J27: 10,999.07 psi

Grand Mean Sample J28: 10,972.59 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 K27			Sample K28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
28Q4B8		2,477	34	0.43	2,438	10	0.12
3BKFMH		2,391	-52	-0.65	2,434	6	0.07
3JJPAB		2,273	-170	-2.14	2,327	-102	-1.17
4TKRUY		2,455	12	0.15	2,431	3	0.03
6TEUYT		2,473	30	0.38	2,368	-60	-0.69
6XU8YF		2,505	62	0.78	2,423	-6	-0.06
74RDTA		2,436	-7	-0.09	2,448	20	0.23
7LAC7U		2,587	144	1.81	2,587	159	1.83
8BP74N		2,443	0	0.00	2,551	123	1.41
8KCA3B		2,418	-25	-0.31	2,421	-7	-0.08
8VGCCE		2,429	-14	-0.17	2,425	-4	-0.04
B9PKAM	X	2,152	-291	-3.66	2,314	-114	-1.32
BHW2CE		2,414	-29	-0.36	2,428	0	0.00
BPURNN		2,505	62	0.78	2,526	98	1.13
CDF62A		2,249	-194	-2.44	2,238	-190	-2.19
F7L8ZB		2,426	-17	-0.21	2,414	-14	-0.16
FFR8F4		2,410	-33	-0.41	2,397	-31	-0.35
GJ9UP3	*	2,398	-45	-0.57	2,243	-186	-2.14
GPEP93		2,390	-53	-0.66	2,363	-65	-0.75
H7ZF2B		2,396	-47	-0.59	2,388	-40	-0.46
J2YTMD		2,432	-11	-0.14	2,409	-19	-0.22
JENQQW		2,422	-21	-0.26	2,433	5	0.06
JKTME3		2,486	43	0.54	2,430	2	0.02
KAPP7T		2,392	-51	-0.64	2,355	-74	-0.85
KE64UY		2,426	-17	-0.21	2,518	90	1.04
KKPENU		2,535	92	1.16	2,484	56	0.65
KKQCYQ	X	1,998	-445	-5.59	2,307	-121	-1.40
KLKXRG	*	2,687	244	3.07	2,678	250	2.88
L7RMK6		2,470	27	0.33	2,380	-48	-0.56
LB2TC6		2,439	-4	-0.05	2,432	4	0.05
MX9J9W		2,404	-39	-0.49	2,376	-52	-0.60
NA2MRF		2,407	-36	-0.45	2,382	-47	-0.54



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

WebCode	Data Flag	Sample K27			Sample K28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
NGWPUR		2,509	66	0.83	2,435	7	0.08
P3TMM4		2,476	33	0.41	2,479	51	0.58
PKCEW2	*	2,234	-209	-2.63	2,322	-106	-1.23
PRDTFG		2,472	29	0.37	2,451	23	0.26
PT9ATE		2,471	28	0.35	2,450	21	0.25
Q9YJ84		2,529	86	1.08	2,517	89	1.03
QUYRA7		2,372	-71	-0.90	2,307	-121	-1.39
QZNCE8		2,531	88	1.11	2,446	18	0.21
RBY3T3		2,382	-61	-0.77	2,363	-65	-0.75
REJU3K		2,505	62	0.78	2,536	108	1.24
RFWKTF		2,532	89	1.12	2,472	44	0.51
T6QZ8Y		2,385	-58	-0.73	2,381	-47	-0.55
TG397K		2,550	107	1.34	2,565	136	1.57
W8NHV6	*	2,306	-137	-1.72	2,193	-235	-2.71
XA6AEK		2,407	-36	-0.45	2,435	7	0.08
XFY78H		2,495	52	0.65	2,472	44	0.51
XVNART		2,453	10	0.12	2,468	40	0.46
YCNQ8P		2,466	23	0.29	2,474	46	0.53
YWEXL8		2,431	-12	-0.15	2,419	-9	-0.10
ZU68UJ		2,409	-34	-0.43	2,399	-29	-0.34
ZWDGQM		2,503	60	0.75	2,525	96	1.11

Summary Statistics	
Grand Means	2,443.1 MPa                      2,428.1 MPa
Std Dev Btwn Labs	79.6 MPa                              86.8 MPa
Statistics based on 51 of 53 reporting participants	

Sample K27: ABS & Sample K28: ABS

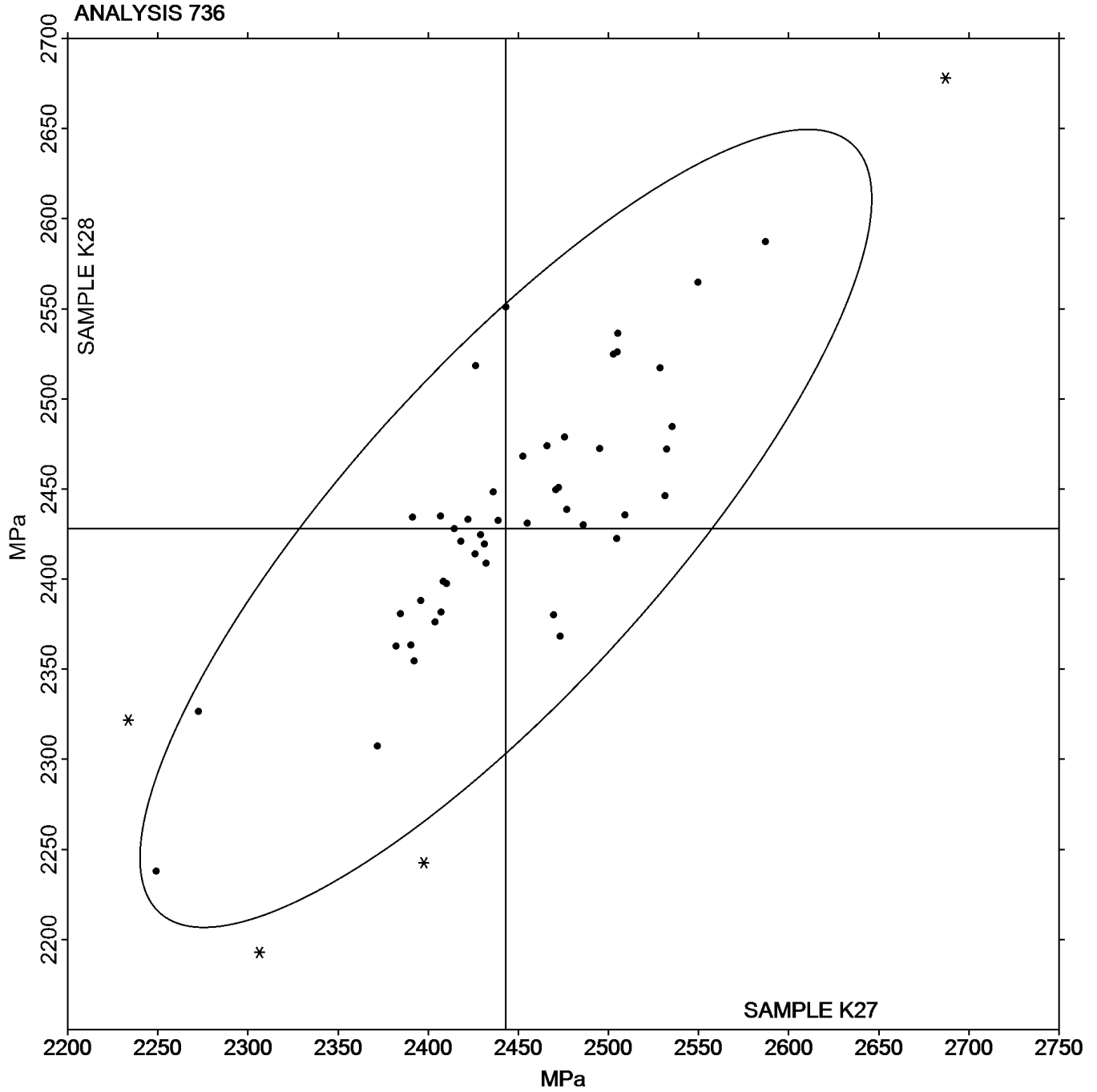
**Comments on assigned Data Flags for Test #736**

B9PKAM (X) - Inconsistent in testing between samples, data for Sample K27 are low.

KKQCYQ (X) - Inconsistent in testing between samples, data for Sample K27 are low.

Plastics Interlaboratory Testing Program  
Analysis 736  
Flexural Modulus - MPa

Grand Mean Sample K27: 2,443.08 MPa      Grand Mean Sample K28: 2,428.14 MPa



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

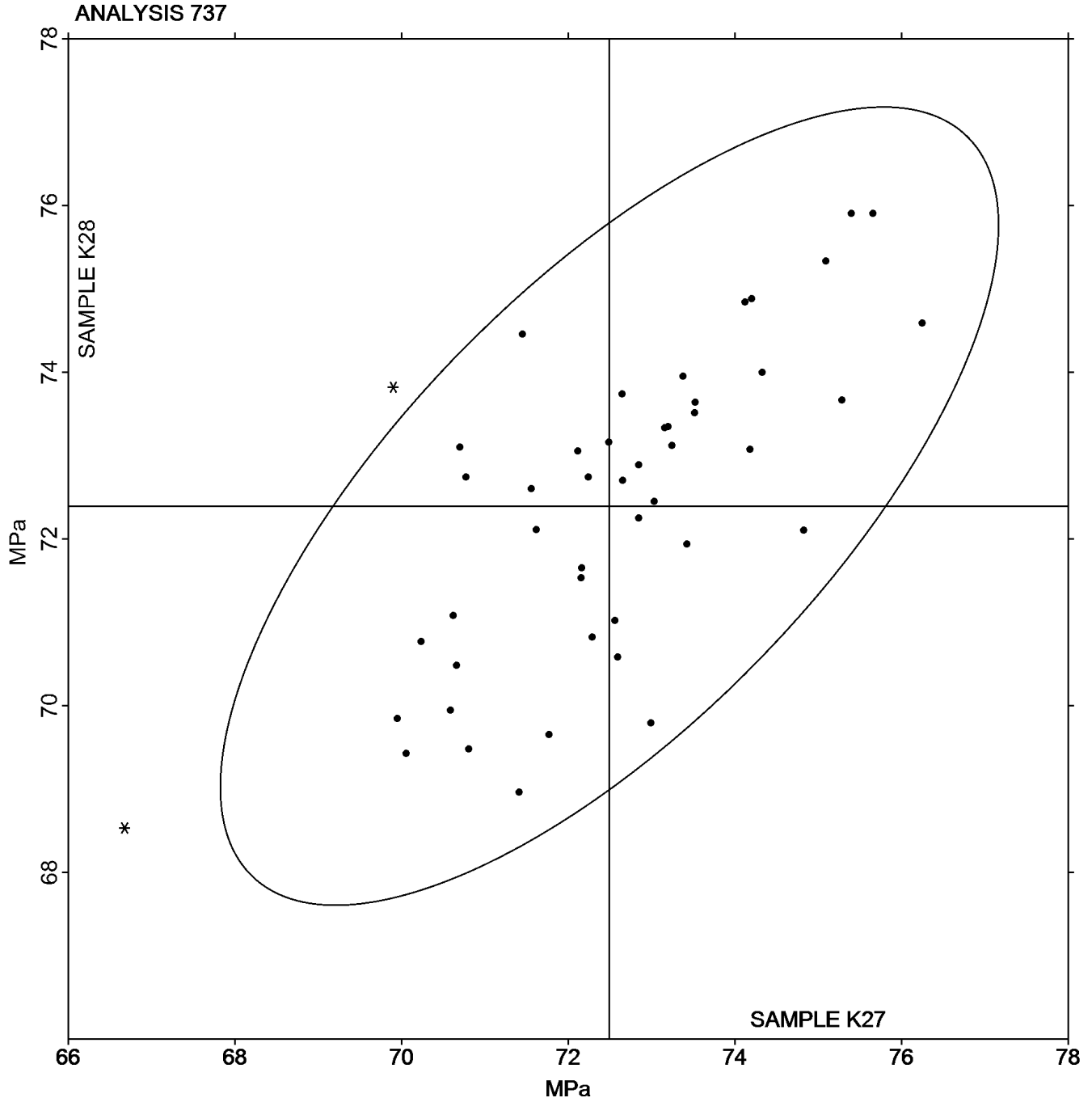
**Plastics Interlaboratory Testing Program**  
**Analysis 737**  
**Flexural Stress at 3.5% Strain - MPa**

WebCode	Data Flag	Sample K27			Sample K28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
3BKFMH		70.77	-1.72	-0.94	72.74	0.35	0.19
3JJPAB	*	66.68	-5.82	-3.19	68.53	-3.86	-2.06
4TKRUY		72.85	0.36	0.20	72.25	-0.14	-0.08
6TEUYT		72.99	0.50	0.27	69.79	-2.61	-1.39
6XU8YF		76.25	3.76	2.06	74.59	2.19	1.17
74RDTA		73.38	0.89	0.49	73.95	1.56	0.83
7LAC7U		72.49	0.00	0.00	73.16	0.77	0.41
8BP74N		72.59	0.10	0.05	70.58	-1.81	-0.97
8KCA3B		73.53	1.03	0.57	73.64	1.25	0.67
8VGCCE		70.62	-1.87	-1.03	71.08	-1.31	-0.70
B9PKAM		70.70	-1.79	-0.98	73.10	0.71	0.38
BHW2CE		71.56	-0.93	-0.51	72.60	0.21	0.11
BPURNN		70.05	-2.44	-1.34	69.42	-2.97	-1.59
CDF62A		70.66	-1.83	-1.01	70.48	-1.91	-1.02
F7L8ZB		73.20	0.71	0.39	73.35	0.95	0.51
FFR8F4		73.52	1.02	0.56	73.51	1.12	0.60
GJ9UP3		72.29	-0.20	-0.11	70.82	-1.58	-0.84
GPEP93		75.10	2.60	1.43	75.33	2.94	1.57
J2YTMD		72.24	-0.25	-0.14	72.74	0.35	0.19
JENQQW		70.24	-2.26	-1.24	70.77	-1.62	-0.87
JKTME3		72.56	0.07	0.04	71.02	-1.37	-0.73
KAPP7T		70.80	-1.69	-0.93	69.48	-2.92	-1.56
KE64UY		71.45	-1.04	-0.57	74.46	2.06	1.10
KKPENU		72.16	-0.34	-0.19	71.53	-0.86	-0.46
KKQCYQ		72.65	0.16	0.09	73.74	1.34	0.72
LB2TC6		73.16	0.67	0.37	73.33	0.94	0.50
M8DQNV		74.20	1.71	0.94	74.88	2.49	1.33
NA2MRF		70.59	-1.91	-1.05	69.95	-2.45	-1.31
NGWPUR		74.18	1.69	0.93	73.07	0.68	0.36
P3TMM4		71.62	-0.88	-0.48	72.11	-0.29	-0.15
PKCEW2	*	69.90	-2.59	-1.42	73.82	1.43	0.76
PRDTFG	X	61.64	-10.85	-5.95	61.20	-11.19	-5.99



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

Grand Mean Sample K27: 72.494 MPa      Grand Mean Sample K28: 72.393 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 K27			Sample K28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
3BKFMH		72.37	-1.74	-0.89	73.78	-0.04	-0.02
3JJPAB	*	69.01	-5.10	-2.62	70.42	-3.40	-1.74
4TKRUY		74.96	0.85	0.44	73.88	0.06	0.03
6TEUYT	*	74.37	0.25	0.13	71.82	-2.00	-1.02
6XU8YF		78.89	4.78	2.46	78.48	4.66	2.38
74RDTA		74.90	0.79	0.41	75.73	1.91	0.98
7LAC7U		73.15	-0.96	-0.49	73.17	-0.65	-0.33
8BP74N		74.32	0.20	0.10	73.00	-0.82	-0.42
8KCA3B		74.97	0.86	0.44	75.12	1.30	0.66
8VGCCE		72.82	-1.29	-0.66	72.66	-1.16	-0.59
BHW2CE		73.06	-1.05	-0.54	73.78	-0.04	-0.02
BPURNN		71.15	-2.97	-1.53	70.50	-3.32	-1.70
CDF62A		72.86	-1.25	-0.64	72.74	-1.08	-0.55
F7L8ZB		74.33	0.22	0.11	74.57	0.75	0.39
FFR8F4		75.24	1.13	0.58	75.39	1.57	0.80
GJ9UP3		73.85	-0.26	-0.13	72.98	-0.84	-0.43
J2YTMD		73.52	-0.59	-0.30	74.06	0.24	0.12
JENQQW		72.10	-2.02	-1.04	72.48	-1.34	-0.68
KAPP7T		72.24	-1.88	-0.97	71.41	-2.41	-1.23
KKPENU		73.18	-0.93	-0.48	72.62	-1.20	-0.61
KKQCYQ		74.86	0.75	0.39	74.81	0.99	0.50
KLKXRG		78.30	4.19	2.16	78.01	4.19	2.14
L7RMK6		72.78	-1.33	-0.69	71.40	-2.42	-1.24
LB2TC6		74.25	0.14	0.07	74.32	0.50	0.25
NA2MRF		72.25	-1.86	-0.96	71.62	-2.20	-1.12
P3TMM4		73.28	-0.83	-0.43	73.38	-0.44	-0.23
PKCEW2	X	71.78	-2.33	-1.20	74.92	1.10	0.56
PRDTFG	X	61.64	-12.47	-6.41	61.20	-12.62	-6.45
PT9ATE		75.62	1.51	0.77	75.53	1.71	0.87
Q9YJ84		74.52	0.41	0.21	75.04	1.22	0.62
QUYRA7		74.80	0.68	0.35	74.15	0.33	0.17
QZNCES		76.24	2.13	1.09	73.99	0.17	0.09

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

WebCode	Data Flag	Sample K27			Sample K28		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
REJU3K		74.28	0.17	0.09	74.21	0.39	0.20
RFWKTF		77.28	3.16	1.63	75.75	1.93	0.99
T6QZ8Y		73.72	-0.40	-0.20	72.00	-1.82	-0.93
TG397K		77.11	3.00	1.54	77.84	4.02	2.05
XFY78H		72.02	-2.09	-1.08	71.65	-2.17	-1.11
XVNART		72.72	-1.39	-0.72	72.34	-1.48	-0.76
YCNQ8P		76.88	2.76	1.42	77.00	3.18	1.62
YWEXL8		74.70	0.59	0.30	74.33	0.51	0.26
ZU68UJ		73.49	-0.63	-0.32	73.01	-0.81	-0.41

**Summary Statistics**

Grand Means

74.113 MPa

73.820 MPa

Std Dev Btwn Labs

1.945 MPa

1.957 MPa

Statistics based on 39 of 41 reporting participants

Sample K27: ABS &amp; Sample K28: ABS

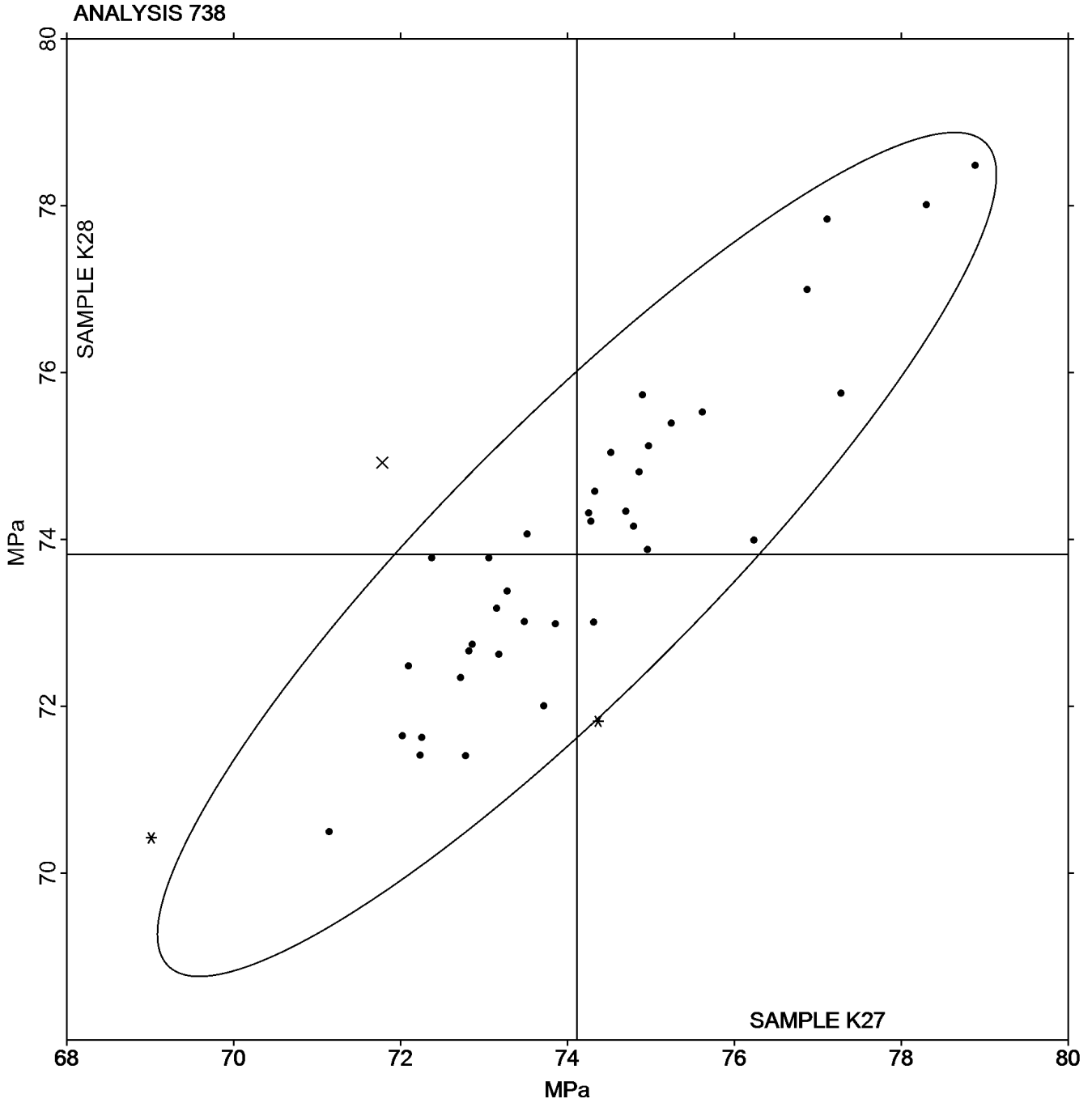
**Comments on assigned Data Flags for Test #738**

PKCEW2 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample K27.

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

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

Grand Mean Sample K27: 74.113 MPa      Grand Mean Sample K28: 73.820 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 S27			Sample S28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
28Q4B8		5.67	0.35	0.90	5.80	0.27	0.59	TO
3JJPAB		4.99	-0.34	-0.88	6.07	0.54	1.20	TM
3UK8TQ		6.07	0.75	1.94	5.93	0.40	0.89	TM
4BZ3EC		5.14	-0.18	-0.47	6.14	0.61	1.36	TM
4FEH7N		5.34	0.01	0.04	5.17	-0.37	-0.82	CE
6MTLTG		5.35	0.03	0.07	5.85	0.32	0.72	TM
78BD6J		4.51	-0.81	-2.10	4.93	-0.60	-1.33	TO
8BP74N		5.41	0.08	0.21	5.26	-0.27	-0.61	TO
8GXNZW		5.33	0.00	0.01	5.22	-0.31	-0.70	WZ
AQRUZ8		4.62	-0.70	-1.82	5.53	-0.01	-0.01	WZ
BHW2CE		5.16	-0.16	-0.41	5.06	-0.48	-1.06	CE
C48QY8		5.89	0.57	1.47	6.20	0.67	1.49	TO
ELMJVA	X	11.55	6.23	16.14	12.35	6.82	15.21	TO
FFR8F4		5.56	0.24	0.61	5.66	0.13	0.29	CE
GGHPWV		5.32	0.00	-0.01	5.41	-0.12	-0.28	TO
GGJM8R		5.04	-0.28	-0.73	5.15	-0.38	-0.86	TM
GLX3VX		4.80	-0.53	-1.37	6.11	0.57	1.28	TO
GPEP93		5.08	-0.24	-0.63	5.03	-0.50	-1.12	CE
GQ9DMR		4.95	-0.38	-0.97	5.72	0.19	0.41	XX
J2YTMD	*	6.32	1.00	2.59	5.07	-0.46	-1.02	TY
J9LEVY		4.92	-0.41	-1.05	5.81	0.27	0.61	TO
JENQQW		4.74	-0.59	-1.52	6.00	0.47	1.04	TO
JKTME3		5.41	0.08	0.21	5.27	-0.26	-0.59	TO
JNCGC3		4.96	-0.36	-0.93	5.64	0.11	0.25	TO
JPLQ4Z		5.25	-0.07	-0.19	5.50	-0.03	-0.08	TO
KKPENU		5.62	0.29	0.76	5.77	0.24	0.53	TO
KKQCYQ		5.95	0.63	1.62	5.76	0.23	0.51	TM
KLKXRG		5.28	-0.05	-0.12	5.39	-0.14	-0.31	CE
KNA9KV		5.42	0.10	0.26	6.22	0.69	1.53	CE
KT6VKB		5.39	0.07	0.17	5.40	-0.14	-0.30	TM
L7RMK6		5.43	0.10	0.27	5.32	-0.21	-0.47	CE
LLXWFY		5.41	0.09	0.22	5.99	0.46	1.02	TO

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

WebCode	Data Flag	Sample S27			Sample S28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
NGWPUR		5.35	0.03	0.07	5.08	-0.46	-1.02	BA
NHQ9XE		5.36	0.03	0.09	5.28	-0.26	-0.57	TM
NHQBMH		5.73	0.40	1.05	5.78	0.25	0.55	TM
NUKPMF		5.45	0.12	0.32	5.12	-0.41	-0.92	BA
P3TMM4	X	6.88	1.56	4.04	6.83	1.30	2.90	CS
P9KPXV		5.05	-0.27	-0.70	5.17	-0.36	-0.81	TM
PT9ATE		4.94	-0.39	-1.00	5.02	-0.51	-1.14	WZ
QDAM2C		5.49	0.17	0.44	5.25	-0.28	-0.62	TO
QKTX9L	*	6.13	0.81	2.09	6.78	1.24	2.77	XX
QZNCE8		5.09	-0.24	-0.61	5.07	-0.46	-1.03	DY
REJU3K	X	7.65	2.32	6.02	7.56	2.02	4.52	CE
REWP4H		5.34	0.01	0.04	6.21	0.68	1.51	XX
RHGK34	*	6.10	0.78	2.02	5.07	-0.47	-1.04	XX
RNB846		5.09	-0.23	-0.59	4.97	-0.56	-1.26	TM
TM88GA		5.22	-0.11	-0.28	4.82	-0.72	-1.60	TO
UM8NUY		4.84	-0.48	-1.25	4.92	-0.61	-1.37	TM
VADPF2		5.50	0.17	0.45	5.63	0.10	0.21	TO
W3RW3G		5.20	-0.13	-0.33	5.51	-0.02	-0.05	TO
WL7BKC		5.08	-0.24	-0.63	5.51	-0.03	-0.06	TM
XB2PQH	X	6.45	1.12	2.91	7.64	2.11	4.71	TO
XBZU6Q		5.49	0.16	0.42	6.29	0.75	1.68	TM
YCNQ8P		5.42	0.10	0.25	5.80	0.27	0.60	CE

Summary Statistics	
Grand Means	5.324 ft.lbf/in
Std Dev Btwn Labs	0.386 ft.lbf/in
	5.532 ft.lbf/in
	0.448 ft.lbf/in
Statistics based on 50 of 54 reporting participants	

Sample S27: ABS &amp; Sample S28: ABS

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

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

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

P3TMM4 (X) - Data for both samples are high.

REJU3K (X) - Data for both samples are high. Also inconsistent in testing within Sample S28.

XB2PQH (X) - Data for both samples are high.

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

(BA) - Baldwin

(CE) - Ceast

(CS) - CSI

(DY) - Dynatup

(TM) - TMI

(TO) - Tinius Olsen

(TY) - Toyoseiki

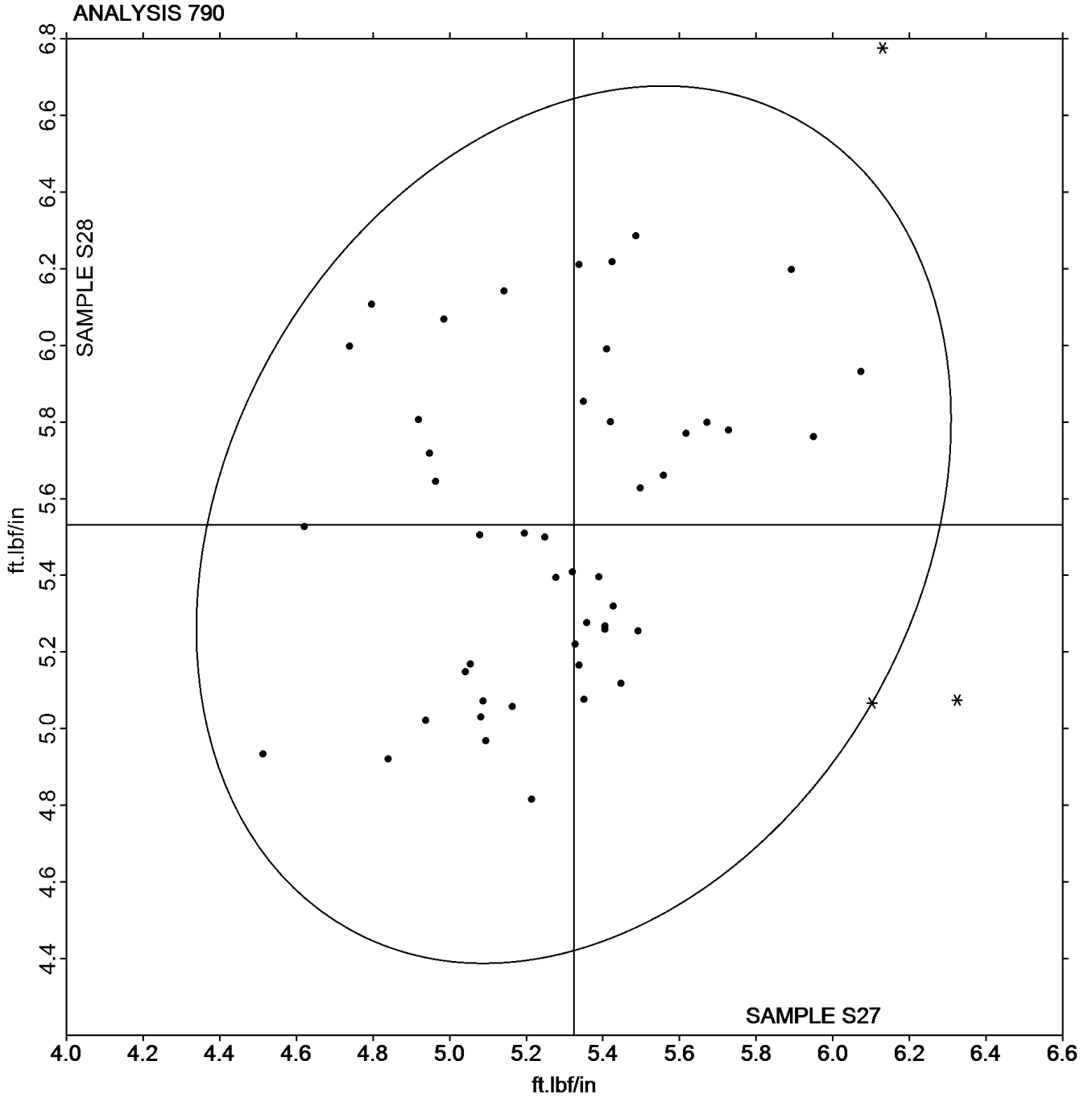
(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample S27: 5.3238 ft.lbf/in

Grand Mean Sample S28: 5.5322 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 Z27			Sample Z28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3BKFMH		52.38000	0.53241	0.21	54.14000	2.60206	0.91	TO
4TKRUY		50.94800	-0.89959	-0.35	50.99600	-0.54194	-0.19	XX
6TEUYT		45.72800	-6.11959	-2.37	44.99000	-6.54794	-2.28	WZ
6XU8YF		51.60000	-0.24759	-0.10	51.44000	-0.09794	-0.03	CE
79X443		54.35200	2.50441	0.97	54.72000	3.18206	1.11	TM
7LAC7U		50.43000	-1.41759	-0.55	50.00600	-1.53194	-0.53	XX
8VGCCE		52.30000	0.45241	0.18	52.28000	0.74206	0.26	WZ
BPURNN		49.30400	-2.54359	-0.98	49.34600	-2.19194	-0.76	XX
GJ9UP3	*	51.55800	-0.28959	-0.11	55.40800	3.87006	1.35	TO
GPEP93		52.74000	0.89241	0.35	51.32000	-0.21794	-0.08	CE
H7ZF2B		49.90000	-1.94759	-0.75	49.58000	-1.95794	-0.68	XX
J2YTMD		52.87000	1.02241	0.40	51.83600	0.29806	0.10	XX
KE64UY		51.46020	-0.38739	-0.15	49.82460	-1.71334	-0.60	CE
M8DQNV		57.24400	5.39641	2.09	56.23200	4.69406	1.64	CE
MX9J9W		49.76000	-2.08759	-0.81	49.92000	-1.61794	-0.56	XX
PKCEW2		52.62000	0.77241	0.30	51.56400	0.02606	0.01	IN
PRDTFG		52.11200	0.26441	0.10	51.03800	-0.49994	-0.17	CE
PT9ATE		54.71000	2.86241	1.11	51.85800	0.32006	0.11	WZ
QUYRA7		49.09600	-2.75159	-1.06	48.38400	-3.15394	-1.10	XX
R438TJ		53.90000	2.05241	0.79	52.06000	0.52206	0.18	XX
RFWKTF		52.40000	0.55241	0.21	52.82000	1.28206	0.45	TO
V4KLH4		56.72000	4.87241	1.88	58.16000	6.62206	2.31	TM
XFY78H		52.34200	0.49441	0.19	51.79200	0.25406	0.09	XX
XVNART		47.86800	-3.97959	-1.54	47.19600	-4.34194	-1.51	XX

Summary Statistics	
Grand Means	
51.847592 kJ/m <sup>2</sup>	51.537942 kJ/m <sup>2</sup>
Std Dev Btwn Labs	
2.584891 kJ/m <sup>2</sup>	2.868852 kJ/m <sup>2</sup>
Statistics based on 24 of 24 reporting participants	

Sample Z27: ABS/PC & Sample Z28: ABS/PC

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

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

(CE) - Ceast

(TM) - TMI

(WZ) - Zwick

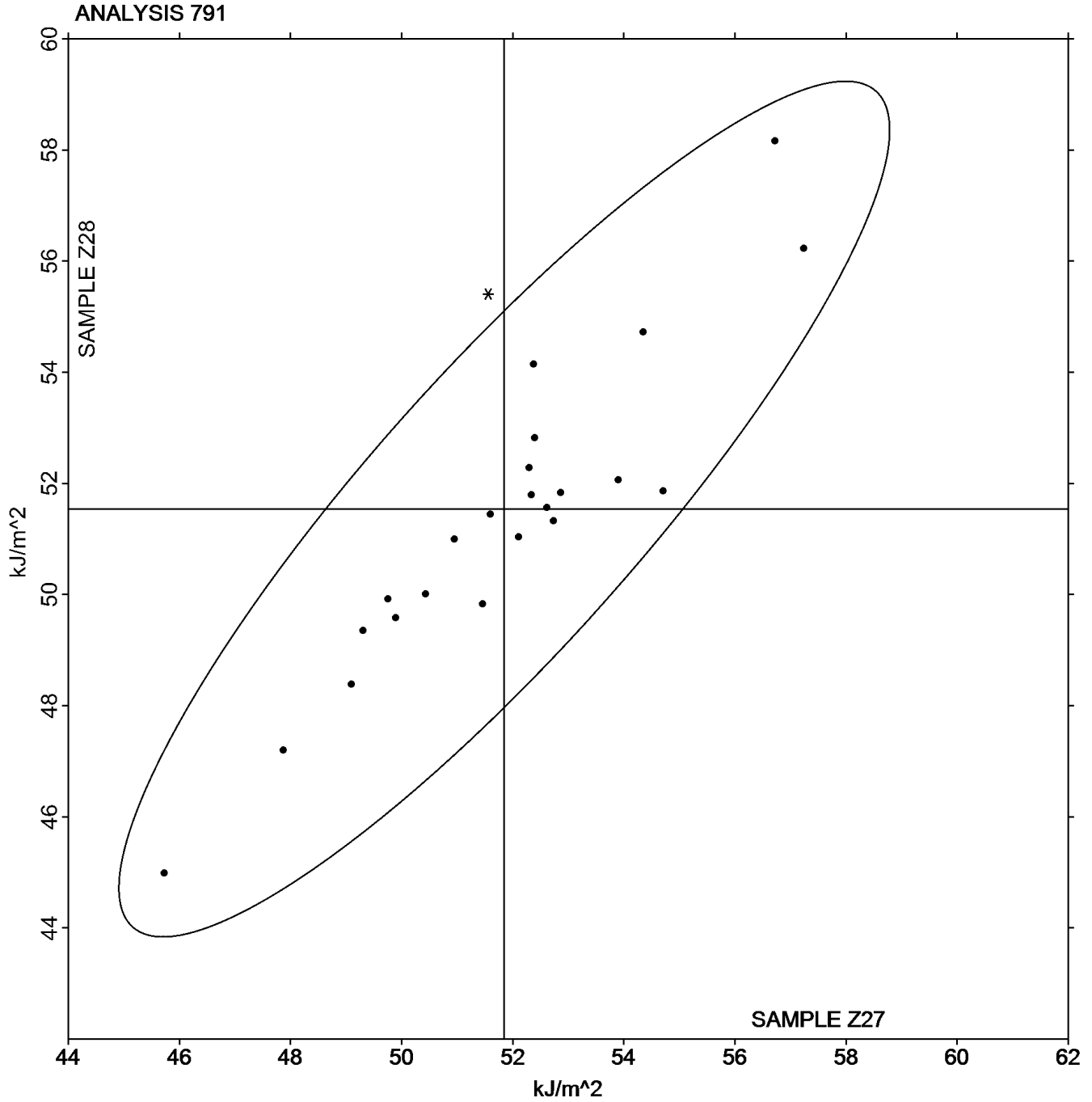
(IN) - Instron

(TO) - Tinius Olsen

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample Z27: 51.848  $\text{kJ/m}^2$       Grand Mean Sample Z28: 51.538  $\text{kJ/m}^2$



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 M27			Sample M28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
39FPJN		30.78	1.24	0.81	29.21	-0.04	-0.03	CE
3LMKRT		29.55	0.01	0.01	28.66	-0.60	-0.37	WZ
4TKRUY		29.51	-0.03	-0.02	28.71	-0.55	-0.34	XX
6TEUYT		27.95	-1.59	-1.04	25.91	-3.34	-2.09	WZ
74RDTA	*	24.76	-4.78	-3.13	25.66	-3.60	-2.25	TO
7LAC7U		30.66	1.12	0.74	31.07	1.82	1.14	TO
7P8TJN		28.72	-0.82	-0.54	27.04	-2.21	-1.38	CE
8GXNZW		28.01	-1.53	-1.00	27.13	-2.13	-1.33	TM
8KCA3B		30.47	0.93	0.61	31.15	1.89	1.18	XX
8LM7E8		30.42	0.88	0.57	31.10	1.84	1.15	TM
8VGCCE		29.28	-0.26	-0.17	27.92	-1.34	-0.83	WZ
B9PKAM	X	21.80	-7.74	-5.07	21.80	-7.46	-4.66	TO
BHW2CE		29.66	0.12	0.08	28.86	-0.40	-0.25	CE
BPURNN		29.08	-0.46	-0.30	28.79	-0.47	-0.29	TO
CDF62A		26.88	-2.66	-1.74	27.62	-1.64	-1.02	XX
FFR8F4		29.90	0.36	0.24	29.70	0.44	0.28	CE
GGHPWV		31.44	1.90	1.24	30.57	1.32	0.82	TO
GJ9UP3		31.16	1.62	1.06	30.97	1.71	1.07	TO
GPEP93		27.82	-1.72	-1.13	28.36	-0.90	-0.56	CE
J2YTMD		30.97	1.43	0.93	31.04	1.78	1.11	TY
J9LEVY		28.67	-0.87	-0.57	27.84	-1.42	-0.89	TO
JDEGY Y		30.12	0.58	0.38	31.54	2.29	1.43	TM
KE64UY		29.15	-0.39	-0.26	30.56	1.31	0.82	CE
KKQCYQ		28.58	-0.96	-0.63	29.09	-0.16	-0.10	TM
KLKXRG		29.10	-0.44	-0.29	31.10	1.84	1.15	CE
KLYFHF		31.33	1.79	1.17	30.89	1.63	1.02	CE
L7RMK6		29.24	-0.30	-0.20	27.67	-1.59	-0.99	CE
LB2TC6		28.84	-0.70	-0.46	29.93	0.67	0.42	WZ
NGWPUR		30.75	1.21	0.79	30.25	1.00	0.62	CE
NHQBMH		30.80	1.26	0.83	31.26	2.01	1.25	TM
P9KPXV		26.66	-2.88	-1.88	27.58	-1.68	-1.05	TM
PRDTFG		27.40	-2.14	-1.40	27.18	-2.08	-1.30	CE



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

WebCode	Data Flag	Sample M27			Sample M28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
PT9ATE		28.63	-0.91	-0.59	26.73	-2.52	-1.58	WZ
QUYRA7		31.77	2.23	1.46	30.62	1.37	0.85	TM
RBY3T3	*	33.27	3.73	2.44	31.11	1.86	1.16	CE
TG397K		29.57	0.03	0.02	29.79	0.54	0.33	IN
TM88GA		30.10	0.56	0.37	28.14	-1.12	-0.70	XX
XA6AEK		28.88	-0.66	-0.43	28.74	-0.52	-0.32	WZ
XFY78H		29.44	-0.10	-0.07	30.07	0.81	0.51	XX
YCNQ8P		29.40	-0.14	-0.09	28.64	-0.62	-0.39	CE
YWEXL8		29.49	-0.05	-0.03	30.44	1.18	0.74	TM
Z6HKJX		30.84	1.30	0.85	28.78	-0.48	-0.30	TO
ZU68UJ		30.70	1.16	0.76	30.97	1.71	1.07	TO
ZWDGQM		30.46	0.92	0.60	29.60	0.34	0.21	CE

**Summary Statistics**

## Grand Means

29.539 kJ/m<sup>2</sup>29.256 kJ/m<sup>2</sup>

## Std Dev Btwn Labs

1.528 kJ/m<sup>2</sup>1.600 kJ/m<sup>2</sup>

Statistics based on 43 of 44 reporting participants

Sample M27: ABS &amp; Sample M28: ABS

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

B9PKAM (X) - Data for both samples are low.

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

(CE) - Ceast

(IN) - Instron

(TM) - TMI

(TO) - Tinius Olsen

(TY) - Toyoseiki

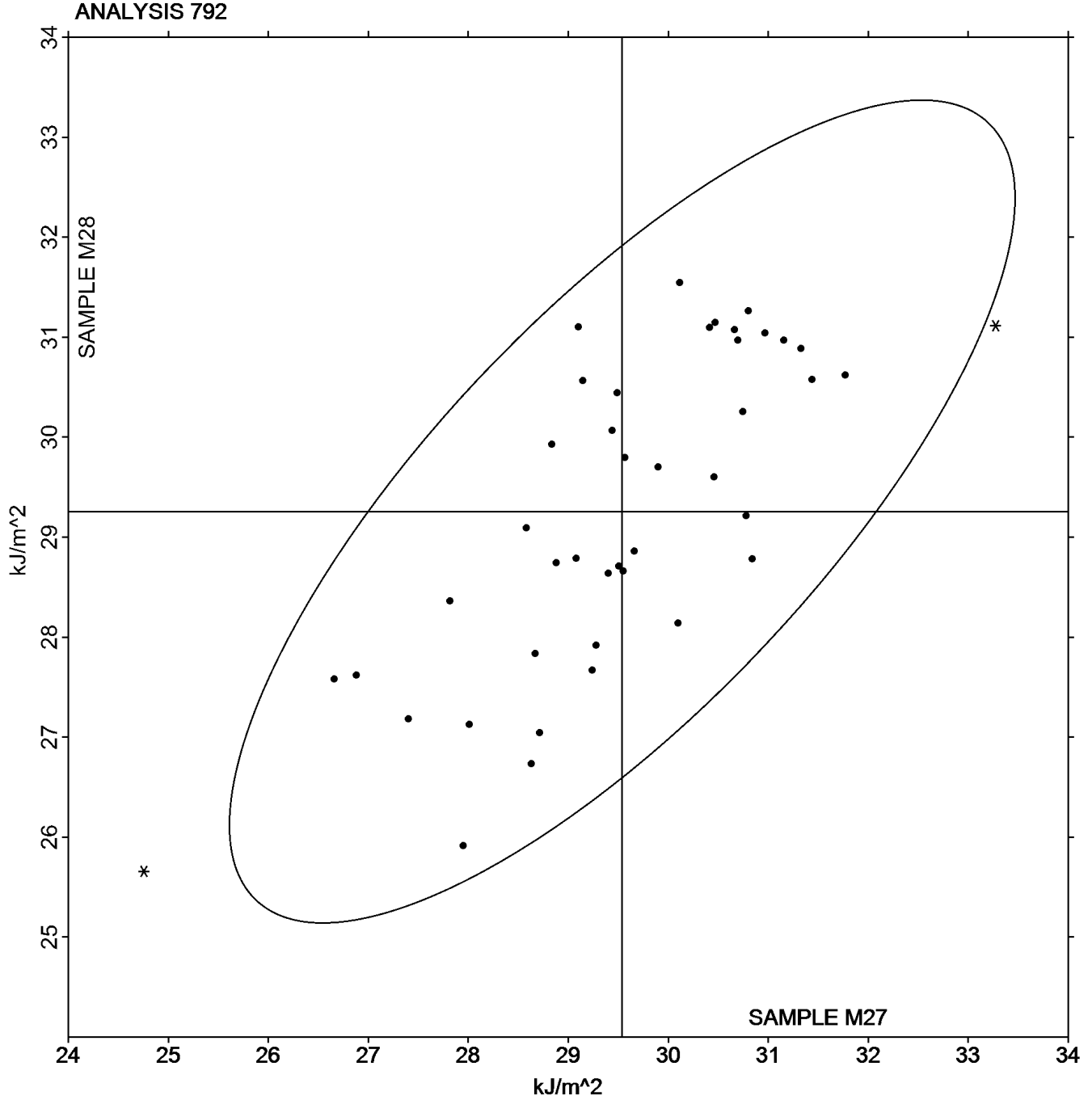
(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample M27: 29.539  $\text{kJ/m}^2$

Grand Mean Sample M28: 29.256  $\text{kJ/m}^2$



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 E27			Sample E28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3JJPAB	*	86.83	3.72	2.36	85.30	2.05	1.46	TO
4BZ3EC		83.10	0.00	0.00	83.75	0.50	0.36	AT
8GXNZW		82.05	-1.05	-0.67	82.03	-1.22	-0.87	TO
AQRUZ8		84.03	0.92	0.59	84.73	1.48	1.05	CE
FFR8F4		84.08	0.97	0.62	84.20	0.95	0.68	CE
GGHPWV		82.35	-0.75	-0.48	82.58	-0.67	-0.48	RO
GPEP93		83.95	0.85	0.54	84.15	0.90	0.64	DN
GQ9DMR		84.15	1.05	0.67	84.30	1.05	0.75	CE
J2YTMD		82.73	-0.38	-0.24	83.08	-0.17	-0.12	TY
JENQQW		81.58	-1.53	-0.97	81.75	-1.50	-1.07	DN
JKTME3		83.93	0.82	0.52	84.43	1.18	0.84	CE
JPLQ4Z		81.03	-2.08	-1.32	81.53	-1.72	-1.23	TO
KKQCYQ		80.73	-2.38	-1.51	80.68	-2.57	-1.84	CE
KLKXRG		83.38	0.27	0.17	83.37	0.12	0.09	TO
KNA9KV		82.40	-0.70	-0.45	82.33	-0.92	-0.66	CE
KQUZUC		86.30	3.20	2.03	85.95	2.70	1.93	XX
L7RMK6		81.95	-1.15	-0.73	82.50	-0.75	-0.54	CE
LLXWFY	*	81.60	-1.50	-0.95	83.90	0.65	0.46	DN
NHQBMH		82.55	-0.55	-0.35	83.15	-0.10	-0.07	CE
P3TMM4		82.05	-1.05	-0.67	82.25	-1.00	-0.71	TO
PT9ATE		83.55	0.45	0.28	84.10	0.85	0.61	AT
QDAM2C		85.00	1.90	1.21	85.18	1.93	1.37	CE
QUYRA7		83.30	0.20	0.13	83.63	0.38	0.27	AT
REWP4H		86.12	3.02	1.92	85.00	1.75	1.25	XX
TG397K		81.43	-1.68	-1.06	80.63	-2.62	-1.87	XA
TM88GA		82.95	-0.15	-0.10	82.40	-0.85	-0.61	TO
VADPF2		82.15	-0.95	-0.60	82.33	-0.92	-0.66	XX
YWEXL8		81.63	-1.48	-0.94	81.83	-1.42	-1.02	CE

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

**Summary Statistics**

Grand Means

83.102 Degrees C

83.250 Degrees C

Std Dev Btwn Labs

1.575 Degrees C

1.400 Degrees C

Statistics based on 28 of 28 reporting participants

Sample E27: ABS &amp; Sample E28: ABS

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

(AT) - Atlas

(CE) - Ceast

(DN) - DYNISCO

(RO) - Rosand

(TO) - Tinius Olsen

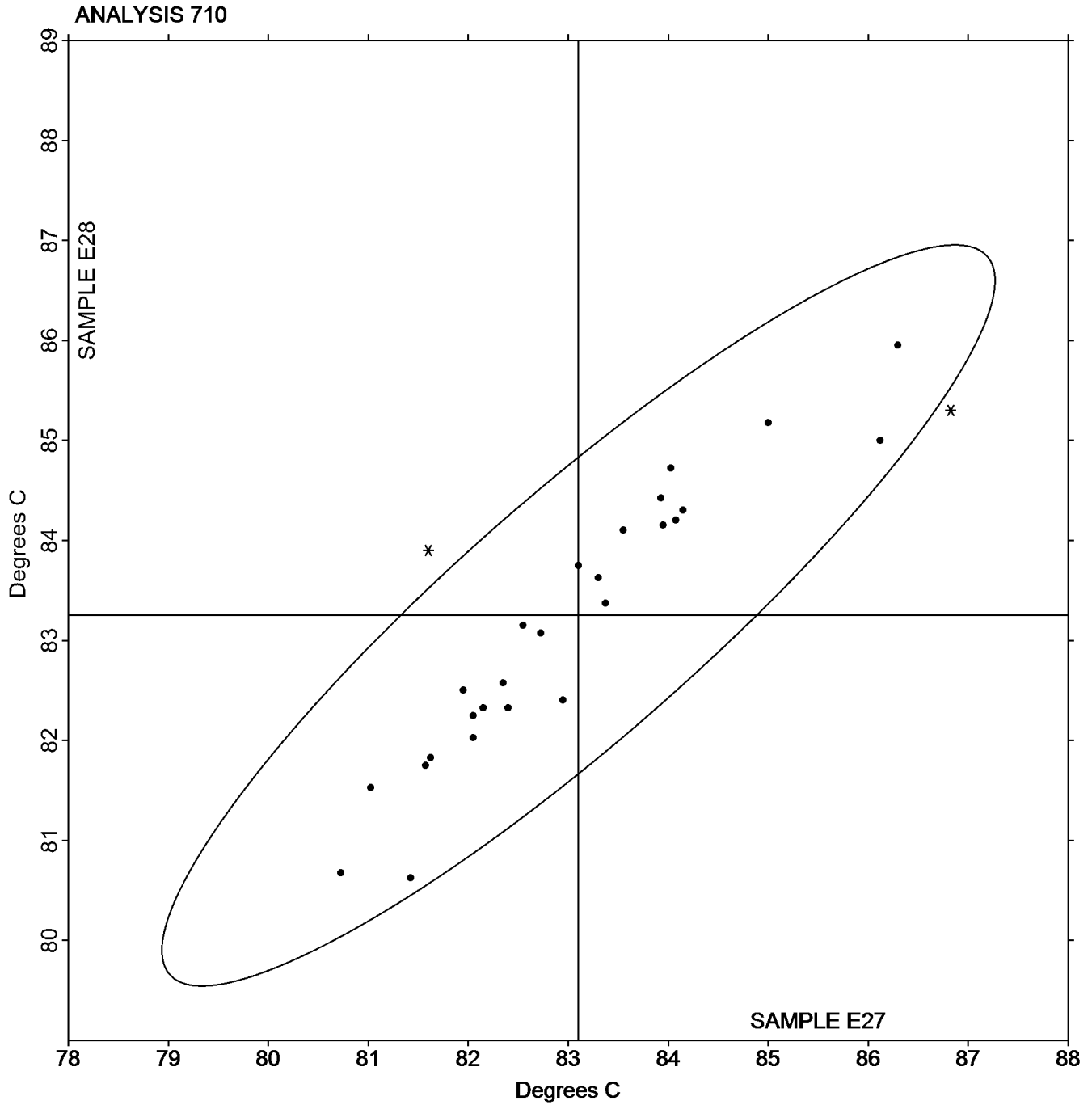
(TY) - Toyoseiki

(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 E27: 83.102 Degrees C    Grand Mean Sample E28: 83.250 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 G27			Sample G28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
4XUUWU		75.6	-1.7	-1.20	74.3	-3.0	-1.82	XX
8GXNZW		77.3	0.0	0.00	76.8	-0.5	-0.29	TO
FFR8F4		76.2	-1.1	-0.75	77.2	-0.2	-0.10	CE
GQ9DMR		77.4	0.1	0.07	78.3	1.0	0.57	CE
H7ZF2B		76.8	-0.5	-0.36	76.1	-1.2	-0.74	XX
JPLQ4Z		76.4	-0.9	-0.62	76.4	-0.9	-0.53	TO
KLKXRG		76.3	-1.0	-0.70	76.8	-0.5	-0.29	TO
KQUZUC	X	102.5	25.2	17.35	98.0	20.7	12.37	XX
L7RMK6		78.4	1.1	0.74	78.5	1.2	0.71	CE
MX9J9W		80.8	3.5	2.42	80.2	2.9	1.74	XX
NHQBMH		76.6	-0.7	-0.51	76.6	-0.7	-0.43	CE
REWP4H		76.8	-0.5	-0.35	76.9	-0.4	-0.22	XX
TM88GA		77.0	-0.3	-0.20	76.6	-0.7	-0.43	TO
YCNQ8P		79.5	2.1	1.47	80.4	3.1	1.84	RO

Summary Statistics			
Grand Means	77.32	Degrees C	77.32
			Degrees C
Std Dev Btwn Labs	1.45	Degrees C	1.67
			Degrees C
Statistics based on 13 of 14 reporting participants			

Sample G27: PP & Sample G28: PP

**Comments on assigned Data Flags for Test #711**

KQUZUC (X) - Data for both samples are high. Also inconsistent in testing within Sample G28.

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

(CE) - Ceast

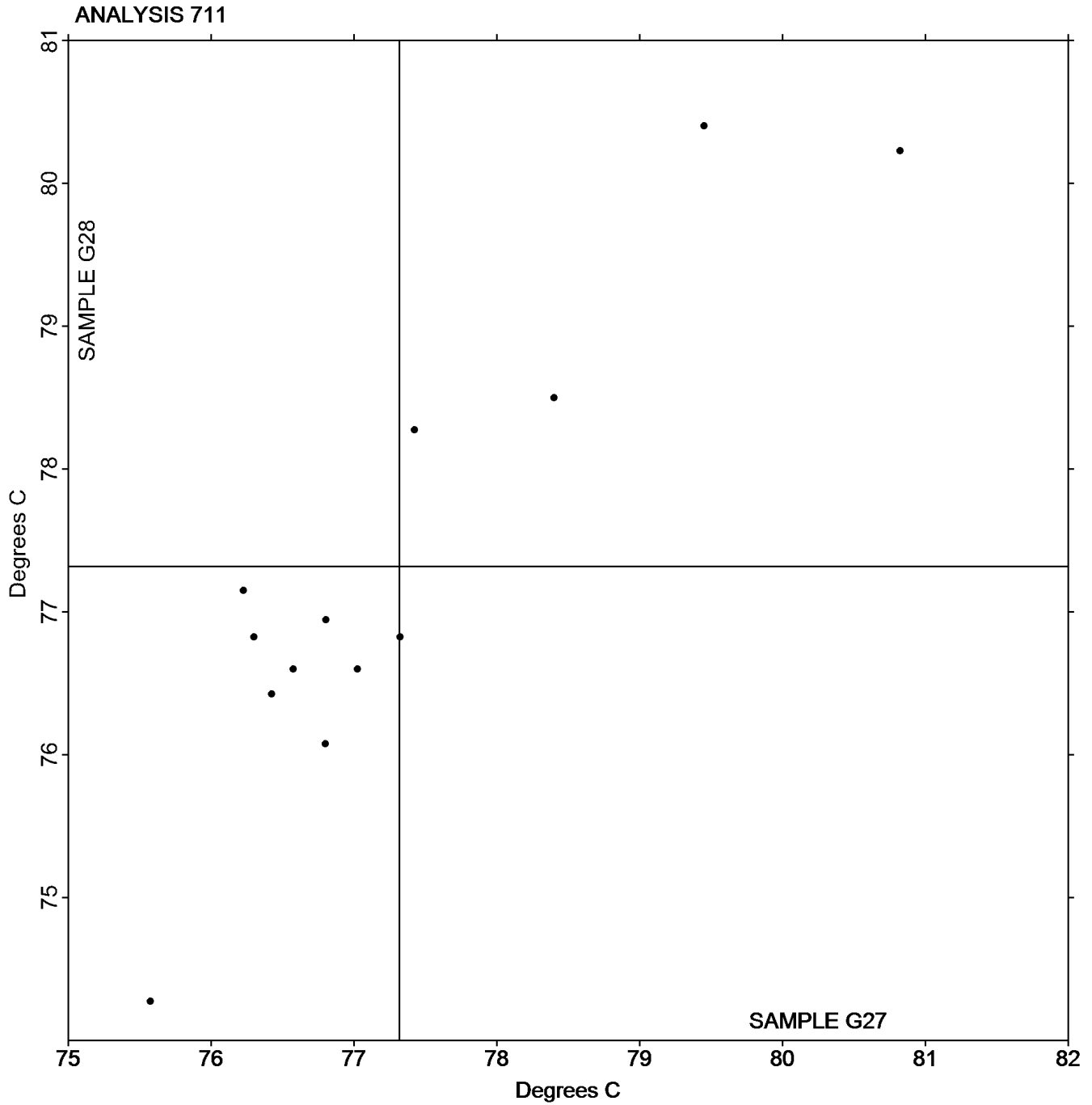
(RO) - Rosand

(TO) - Tinius Olsen

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample G27: 77.320 Degrees C    Grand Mean Sample G28: 77.317 Degrees C



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

## Analysis 712

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

WebCode	Data Flag	Sample N27			Sample N28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
28Q4B8		82.88	1.27	0.96	83.08	1.48	1.10	CE
39FPJN		83.73	2.12	1.61	83.80	2.20	1.65	TY
3BKFMH		83.15	1.55	1.17	82.88	1.28	0.95	XX
4TKRUY	X	86.58	4.97	3.76	82.63	1.03	0.77	TO
6TEUYT		82.10	0.50	0.38	81.13	-0.48	-0.36	CE
6XU8YF		81.60	0.00	0.00	81.70	0.10	0.07	CE
74RDTA	X	65.68	-15.93	-12.05	65.43	-16.18	-12.11	CE
7LAC7U		80.10	-1.50	-1.14	79.78	-1.83	-1.37	CE
8BP74N		81.58	-0.03	-0.02	81.35	-0.25	-0.19	AT
8KCA3B		82.53	0.92	0.70	82.53	0.93	0.69	XX
8VGCCE		82.03	0.42	0.32	81.98	0.38	0.28	CE
BHW2CE		83.98	2.37	1.80	84.45	2.85	2.13	ZW
BPURNN		80.20	-1.40	-1.06	80.28	-1.33	-0.99	CE
GJ9UP3		80.18	-1.43	-1.08	79.75	-1.85	-1.38	AT
J2YTMD		81.65	0.05	0.04	81.68	0.08	0.06	TY
JENQQW		81.33	-0.28	-0.21	81.98	0.38	0.28	DN
JPLQ4Z		82.18	0.57	0.43	82.23	0.63	0.47	TO
KE64UY		80.28	-1.33	-1.00	80.20	-1.40	-1.05	CE
KKPENU		79.75	-1.85	-1.40	79.95	-1.65	-1.24	CE
KKQCYQ		78.88	-2.73	-2.06	78.70	-2.90	-2.17	IN
KLKXRG		82.65	1.05	0.79	81.98	0.38	0.28	TO
L7RMK6		80.14	-1.46	-1.11	79.93	-1.68	-1.25	CE
LB2TC6		82.28	0.67	0.51	82.13	0.53	0.39	CF
LZGJMB		79.33	-2.28	-1.72	79.38	-2.23	-1.67	CE
M8DQNV		80.13	-1.48	-1.12	80.10	-1.50	-1.12	AT
NHQBMH		81.25	-0.35	-0.27	81.50	-0.10	-0.07	CE
PRDTFG	*	80.70	-0.90	-0.68	81.95	0.35	0.26	CE
PT9ATE		81.98	0.37	0.28	82.23	0.63	0.47	AT
QUYRA7		81.40	-0.20	-0.15	81.33	-0.28	-0.21	AT
RFWKTF		81.60	0.00	0.00	81.95	0.35	0.26	AT
T6QZ8Y		83.75	2.15	1.63	83.70	2.10	1.57	XX
XFY78H		83.68	2.07	1.57	83.23	1.63	1.22	AT



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

WebCode	Data Flag	Sample N27			Sample N28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XVNART		81.40	-0.20	-0.15	81.78	0.18	0.13	RO
YCNQ8P		81.17	-0.43	-0.33	81.70	0.10	0.07	CF
ZU68UJ		82.70	1.10	0.83	82.10	0.50	0.37	RO
ZWDGQM		82.25	0.65	0.49	82.05	0.45	0.34	AT

Summary Statistics			
Grand Means	81.602	Degrees C	81.600
Std Dev Btwn Labs	1.322	Degrees C	1.336
Statistics based on 34 of 36 reporting participants			

Sample N27: ABS & Sample N28: ABS

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

4TKRUY (X) - Inconsistent in testing between samples, data for Sample N27 are high. Also inconsistent in testing within Sample N27.

74RDTA (X) - Data for both samples are low.

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

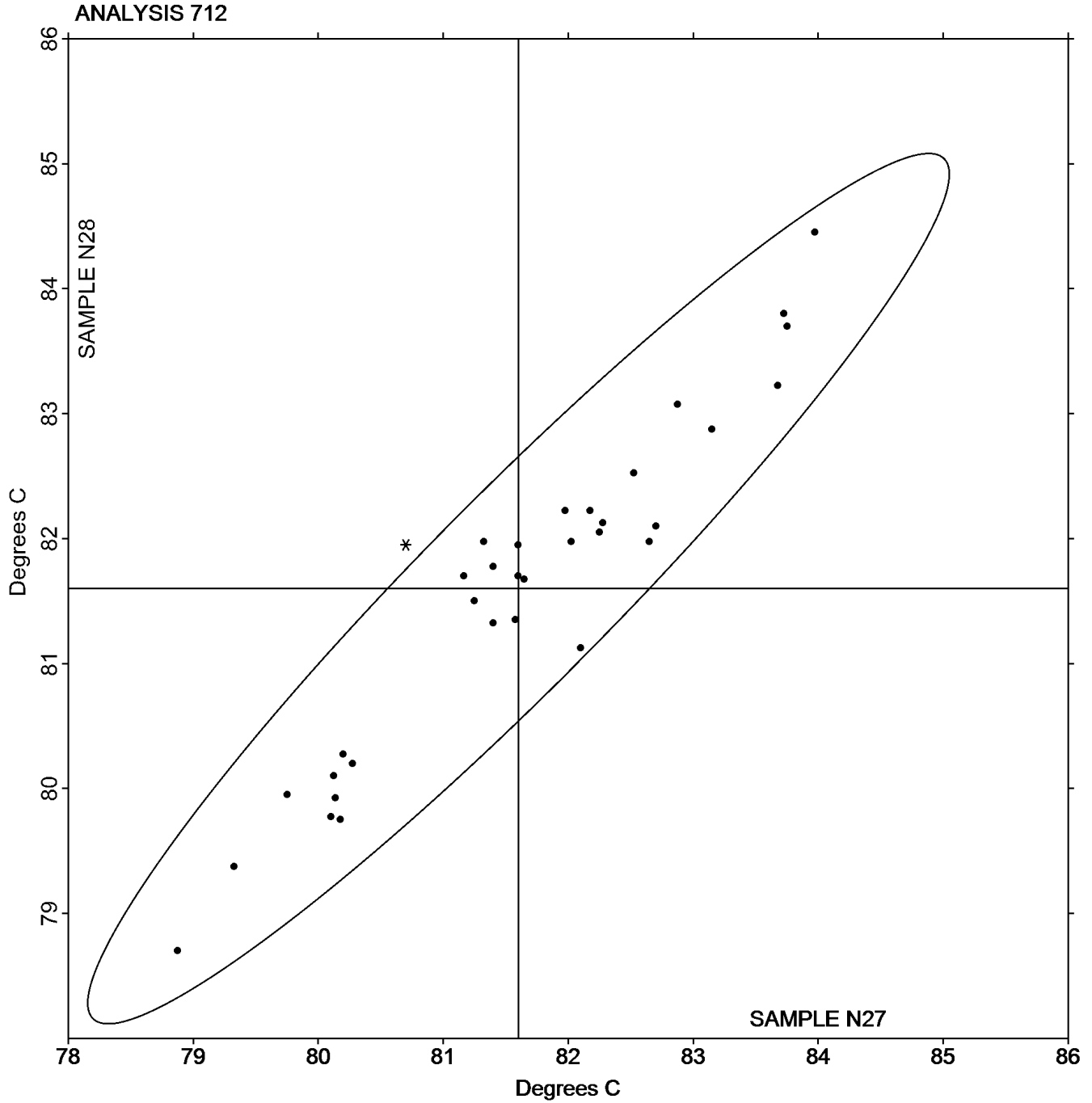
(AT) - Atlas	(CE) - Ceast
(CF) - Coesfeld	(DN) - DYNISCO
(IN) - Instron	(RO) - Rosand
(TO) - Tinius Olsen	(TY) - Toyoseiki
(XX) - Instrument manufacturer not specified by lab	(ZW) - Zwick

Analysis 712

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

Grand Mean Sample N27: 81.602 Degrees C

Grand Mean Sample N28: 81.600 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 H27			Sample H28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
4WH3XK		95.80	-0.71	-1.15	95.82	-0.75	-1.13	TO
8J3E6Q	X	97.88	1.37	2.21	96.78	0.22	0.33	CE
8VGCCE	X	96.80	0.29	0.46	98.35	1.79	2.70	CF
AQRUZ8	*	98.40	1.89	3.04	98.63	2.07	3.12	CE
BHW2CE		96.27	-0.25	-0.39	96.32	-0.25	-0.37	WZ
C48QY8		96.18	-0.33	-0.53	96.15	-0.41	-0.62	CE
DVRAZ7		96.17	-0.35	-0.56	96.12	-0.45	-0.67	TO
FFR8F4		96.27	-0.25	-0.39	96.33	-0.23	-0.35	CE
GGHPWV		96.17	-0.35	-0.56	96.08	-0.48	-0.73	RO
GGJM8R		96.57	0.05	0.09	96.43	-0.13	-0.20	CE
GJ9UP3		96.13	-0.38	-0.61	96.27	-0.30	-0.45	AT
GPEP93		96.50	-0.01	-0.02	96.48	-0.08	-0.12	DN
J2YTMD		96.38	-0.13	-0.21	96.40	-0.16	-0.25	TY
JDEGY Y		96.07	-0.45	-0.72	96.00	-0.56	-0.85	CE
JKTME3	X	87.10	-9.41	-15.15	87.03	-9.53	-14.38	CE
JPLQ4Z		96.07	-0.45	-0.72	96.12	-0.45	-0.67	TO
KAPP7T		96.00	-0.51	-0.82	96.08	-0.48	-0.73	TO
KNA9KV		96.28	-0.23	-0.37	96.45	-0.11	-0.17	CE
LLXWFY		97.15	0.64	1.03	97.45	0.89	1.34	DN
NHQBMH		95.88	-0.63	-1.01	96.00	-0.56	-0.85	CE
PT9ATE		97.65	1.14	1.83	97.77	1.20	1.82	CF
QUYRA7		96.82	0.30	0.49	96.87	0.30	0.46	AT
RKM33K		97.32	0.80	1.30	97.40	0.84	1.26	TO
VADPF2		96.35	-0.16	-0.26	96.43	-0.13	-0.20	XX
WRBGTM	X	96.58	0.07	0.12	97.42	0.85	1.29	CE
XVNART		97.15	0.64	1.03	97.05	0.49	0.73	RO
YCNQ8P		96.63	0.12	0.20	96.53	-0.03	-0.05	CF
ZU68UJ		96.08	-0.43	-0.69	96.35	-0.21	-0.32	RO

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

Summary Statistics	
Grand Means	
96.512 Degrees C	96.564 Degrees C
Stnd Dev Btwn Labs	
0.621 Degrees C	0.663 Degrees C
Statistics based on 24 of 28 reporting participants	

Sample H27: HIPS & Sample H28: HIPS

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

8J3E6Q (X) - Inconsistent in testing between samples and inconsistent in testing within Sample H27.

8VGCCE (X) - Inconsistent in testing between samples, data for Sample H28 are high.

JKTME3 (X) - Data for both samples are low. Also inconsistent in testing within both samples.

WRBGTM (X) - Inconsistent in testing between samples.

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

(AT) - Atlas

(CE) - Ceast

(CF) - Coesfeld

(DN) - DYNISCO

(RO) - Rosand

(TO) - Tinius Olsen

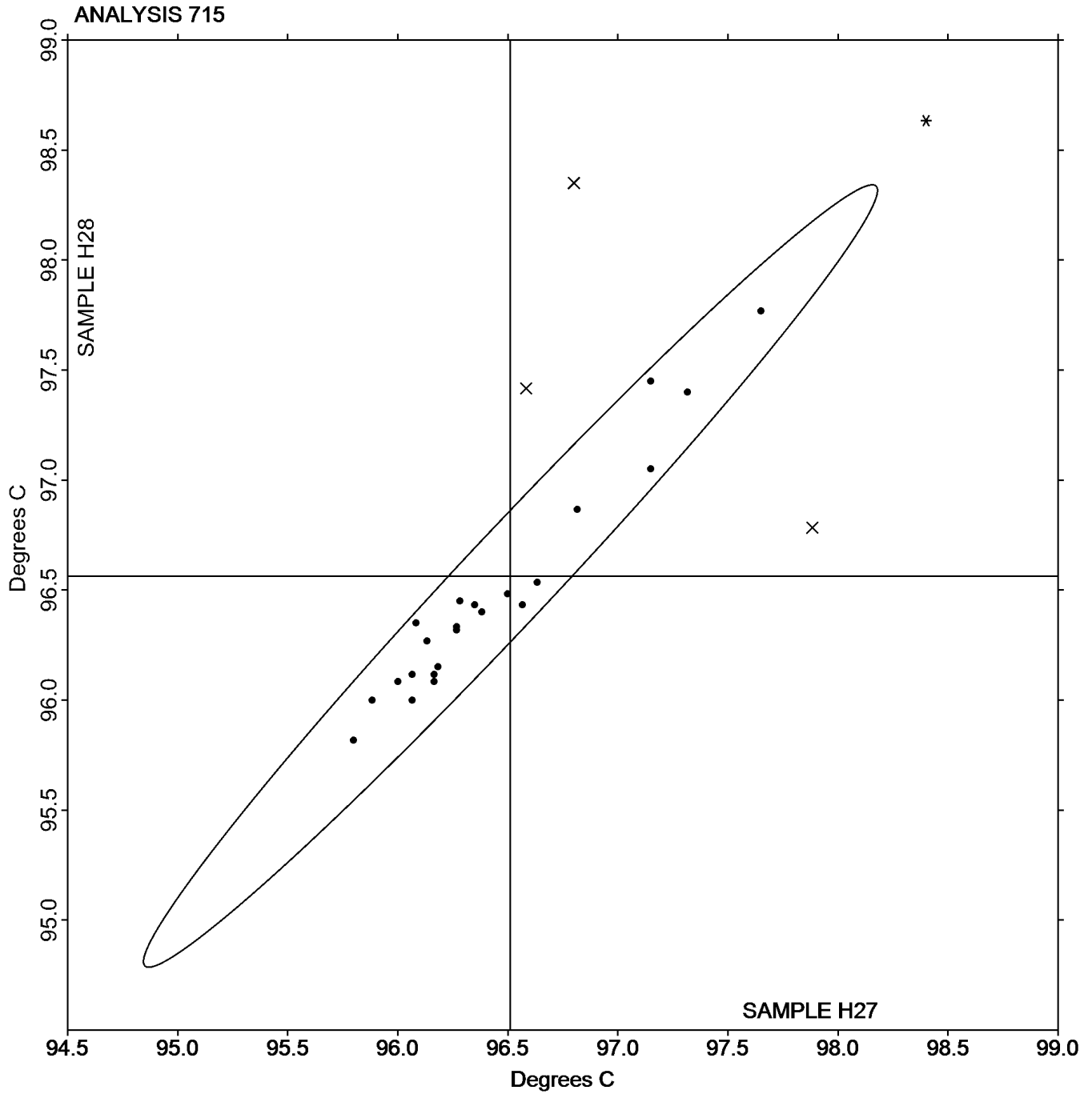
(TY) - Toyoseiki

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample H27: 96.512 Degrees C    Grand Mean Sample H28: 96.564 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 R27			Sample R28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
4WH3XK		97.82	-0.96	-1.19	97.78	-0.94	-1.14	TO
8VGCCE		98.43	-0.34	-0.43	98.35	-0.37	-0.45	CF
AQRUZ8	*	98.13	-0.64	-0.80	98.75	0.03	0.03	CE
BHW2CE		100.23	1.46	1.82	100.32	1.59	1.93	WZ
C48QY8		98.30	-0.48	-0.59	98.20	-0.52	-0.63	CE
DVRAZ7		98.22	-0.56	-0.70	98.23	-0.49	-0.59	TO
FFR8F4		98.42	-0.36	-0.45	98.35	-0.37	-0.45	CE
GGHPWV		98.67	-0.11	-0.14	98.23	-0.49	-0.59	RO
GGJM8R	*	98.95	0.17	0.22	98.08	-0.64	-0.77	CE
GJ9UP3		98.40	-0.38	-0.47	98.28	-0.44	-0.53	AT
GPEP93		99.05	0.27	0.34	99.02	0.29	0.36	DN
GQ9DMR		98.67	-0.11	-0.14	98.67	-0.06	-0.07	CE
J2YTMD		98.97	0.19	0.24	98.97	0.24	0.30	TY
JB9DTU		97.53	-1.24	-1.55	97.42	-1.31	-1.58	TO
JDEGY Y		97.97	-0.81	-1.01	97.90	-0.82	-1.00	CE
JKTME3		98.58	-0.19	-0.24	98.55	-0.17	-0.21	CE
JPLQ4Z		98.07	-0.71	-0.88	98.08	-0.64	-0.77	TO
KAPP7T		97.92	-0.86	-1.07	97.80	-0.92	-1.12	TO
KLKXRG		98.97	0.20	0.25	98.76	0.04	0.05	TO
KNA9KV		98.68	-0.09	-0.11	98.65	-0.07	-0.09	XX
LLXWFY	*	101.25	2.47	3.08	101.28	2.56	3.10	DN
PT9ATE		99.18	0.41	0.51	99.28	0.56	0.68	CF
QUYRA7		99.85	1.07	1.34	99.60	0.88	1.06	AT
RKM33K		99.45	0.67	0.84	99.38	0.66	0.80	TO
VADPF2		98.55	-0.23	-0.28	98.47	-0.26	-0.31	XX
XVNART		99.65	0.87	1.09	99.60	0.88	1.06	RO
YCNQ8P		99.43	0.66	0.82	99.50	0.78	0.94	CF
ZU68UJ		98.37	-0.41	-0.51	98.70	-0.02	-0.03	XX

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

**Summary Statistics**

Grand Means

98.775 Degrees C

98.722 Degrees C

Std Dev Btwn Labs

0.802 Degrees C

0.826 Degrees C

Statistics based on 28 of 28 reporting participants

Sample R27: HIPS &amp; Sample R28: HIPS

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

(AT) - Atlas

(CE) - Ceast

(CF) - Coesfeld

(DN) - DYNISCO

(RO) - Rosand

(TO) - Tinius Olsen

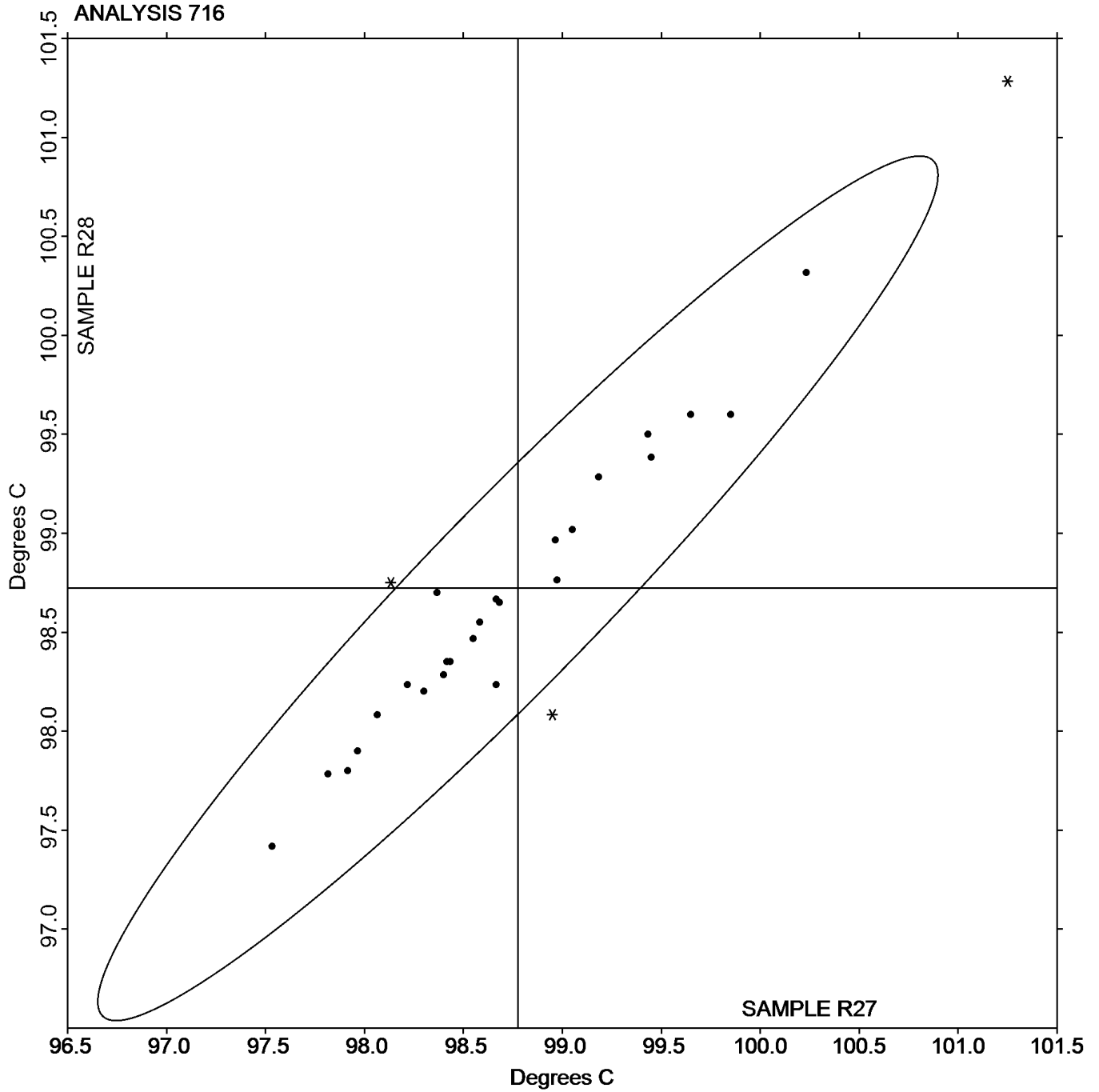
(TY) - Toyoseiki

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample R27: 98.775 Degrees C    Grand Mean Sample R28: 98.722 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 X27			Sample X28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2GTDMX	X	9.30	-2.03	-4.08	9.15	-2.26	-4.49	TO
34898E		11.23	-0.11	-0.22	11.20	-0.21	-0.42	DY
3BKFMH		11.75	0.42	0.84	11.60	0.19	0.39	DY
4BX3Q6		11.11	-0.22	-0.45	11.12	-0.29	-0.57	TM
4RP73T		11.42	0.09	0.17	11.58	0.17	0.35	TO
4TKRUY	X	5.35	-5.98	-12.01	5.40	-6.01	-11.95	TO
6MTLTG		11.44	0.10	0.20	11.44	0.03	0.06	TO
6TEUYT		11.35	0.02	0.03	11.39	-0.02	-0.03	GO
6XU8YF		11.24	-0.09	-0.19	11.30	-0.11	-0.21	WZ
74RDTA		12.08	0.74	1.49	11.42	0.02	0.04	TO
78BD6J		11.75	0.42	0.84	11.65	0.24	0.49	TO
7ATM8P	*	12.01	0.68	1.36	12.70	1.30	2.59	CE
7LAC7U		10.75	-0.58	-1.17	11.07	-0.34	-0.67	TO
7M6RJQ	*	10.04	-1.30	-2.61	10.82	-0.59	-1.17	XX
8GXNZW		11.50	0.17	0.34	11.81	0.40	0.81	TO
8KCA3B		11.03	-0.30	-0.61	11.07	-0.34	-0.68	XX
8VGCCE		11.40	0.06	0.12	11.62	0.21	0.43	WZ
8YUBB2		11.86	0.53	1.06	12.05	0.65	1.29	TO
AE4KKU		11.45	0.11	0.22	12.00	0.60	1.19	DY
AQRUZ8		11.04	-0.29	-0.59	11.24	-0.17	-0.34	GO
BGNWW6		11.49	0.16	0.31	11.46	0.05	0.11	DY
BHW2CE		10.93	-0.40	-0.81	11.18	-0.23	-0.45	GO
BPURNN		10.81	-0.52	-1.05	11.13	-0.28	-0.55	TO
BWV4KL	*	10.12	-1.22	-2.45	10.02	-1.39	-2.76	XX
ELMJVA		10.50	-0.83	-1.67	11.30	-0.11	-0.21	TO
FFR8F4		11.39	0.05	0.10	11.42	0.01	0.03	DY
GEV6YE	X	16.32	4.98	10.00	16.42	5.01	9.97	TO
GGHPWV		11.40	0.07	0.13	11.60	0.19	0.39	TO
GGJM8R		11.50	0.17	0.33	11.00	-0.41	-0.81	TO
GJ9UP3		11.90	0.57	1.14	11.95	0.54	1.08	TO
GM88CT		10.95	-0.38	-0.77	11.00	-0.41	-0.81	TO
GNJ2TT		11.85	0.51	1.03	12.24	0.83	1.65	TO

## Analysis 750

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

WebCode	Data Flag	Sample X27			Sample X28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
GPEP93		11.45	0.12	0.23	11.45	0.04	0.09	DY
GQ9DMR		11.65	0.32	0.63	11.40	-0.01	-0.01	CE
GQA9B4	X	13.10	1.77	3.54	11.90	0.49	0.98	DY
J2HMA9	*	12.42	1.09	2.18	12.77	1.36	2.71	DY
J2YTMD		11.72	0.39	0.78	11.75	0.34	0.69	TY
J8METE		11.30	-0.03	-0.07	11.25	-0.16	-0.31	TO
JB9DTU		11.40	0.07	0.13	11.30	-0.11	-0.21	TO
JE9GL3		11.16	-0.18	-0.36	10.91	-0.50	-1.00	TO
JENQQW		10.55	-0.78	-1.57	10.70	-0.71	-1.40	TO
JKTME3		11.89	0.55	1.11	11.85	0.44	0.88	WZ
JNCGC3	X	9.66	-1.67	-3.36	9.90	-1.51	-3.00	TO
KB2HUF		10.74	-0.59	-1.19	11.35	-0.05	-0.10	TO
KE64UY		12.09	0.76	1.52	12.16	0.75	1.50	TO
KKPENU		11.80	0.47	0.94	11.65	0.24	0.49	TO
KKQCYQ		11.05	-0.28	-0.57	11.05	-0.36	-0.71	TO
KLKXRG		11.53	0.20	0.39	11.43	0.02	0.05	TO
KLYFHF		11.10	-0.23	-0.47	10.92	-0.49	-0.97	XX
KNA9KV		10.63	-0.70	-1.41	11.06	-0.35	-0.70	CE
KQUZUC		11.62	0.29	0.58	10.90	-0.50	-1.01	KA
KT6VKB		11.29	-0.05	-0.10	11.35	-0.06	-0.12	TO
KYTGPC		11.95	0.62	1.24	12.05	0.64	1.28	TO
L7RMK6		10.82	-0.51	-1.03	11.16	-0.25	-0.49	TO
LB2TC6		11.35	0.02	0.03	11.24	-0.17	-0.33	GO
LHZ7FE		10.90	-0.43	-0.87	10.80	-0.61	-1.21	KA
M8AZRL	X	14.83	3.49	7.01	13.92	2.51	5.00	TO
M8DQNV		11.30	-0.03	-0.07	11.30	-0.11	-0.21	KA
MGNV2L	*	10.90	-0.43	-0.87	12.10	0.69	1.38	TY
NBQTAR		10.54	-0.80	-1.60	11.04	-0.37	-0.73	CE
NHQBMH		11.25	-0.08	-0.17	11.26	-0.15	-0.30	TO
NUKPMF		11.64	0.30	0.60	12.12	0.71	1.41	TO
P3TMM4		11.65	0.32	0.63	11.30	-0.11	-0.21	AT
PB6JUV	*	12.33	1.00	2.00	11.32	-0.09	-0.17	DY

## Analysis 750

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

WebCode	Data Flag	Sample X27			Sample X28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
PKCEW2	*	11.40	0.07	0.13	12.45	1.04	2.08	TO
PT9ATE		11.34	0.01	0.01	11.38	-0.03	-0.05	TO
QDAM2C		11.64	0.31	0.61	11.94	0.53	1.06	TO
QKTX9L		11.50	0.17	0.33	11.45	0.04	0.09	TO
QUYRA7		11.98	0.65	1.30	12.06	0.65	1.30	TO
REWP4H		11.50	0.17	0.33	11.35	-0.06	-0.11	XX
RFWKTF		11.53	0.20	0.39	11.39	-0.02	-0.03	WZ
RHGK34		11.50	0.17	0.33	11.45	0.04	0.09	XX
RKM33K		10.60	-0.73	-1.47	10.70	-0.71	-1.40	TO
RV34AE		10.26	-1.08	-2.16	10.18	-1.22	-2.43	XX
RXBZCV		11.28	-0.05	-0.11	11.34	-0.07	-0.14	TO
T6QZ8Y	X	5.42	-5.91	-11.87	5.34	-6.07	-12.08	XX
TM88GA	*	12.34	1.00	2.02	11.33	-0.08	-0.16	CS
UM8NUY		11.38	0.04	0.08	11.34	-0.07	-0.14	TO
VFGF2T		11.05	-0.28	-0.57	11.15	-0.26	-0.51	DY
VYE2HD		10.58	-0.75	-1.51	11.01	-0.40	-0.80	CE
W2BVTZ	X	10.73	-0.60	-1.20	9.58	-1.82	-3.63	TO
W3RW3G		11.80	0.47	0.94	11.25	-0.16	-0.31	TO
WDAH8B		10.74	-0.59	-1.19	10.95	-0.46	-0.92	WZ
WL8763		11.27	-0.07	-0.13	11.54	0.13	0.26	CE
XA6AEK		11.32	-0.02	-0.03	11.38	-0.02	-0.05	DY
XFY78H		11.49	0.16	0.32	11.36	-0.04	-0.08	TO
YCNQ8P		11.00	-0.33	-0.67	10.53	-0.88	-1.75	XX
YNLNWB	*	11.95	0.62	1.24	12.65	1.24	2.48	DY

## Summary Statistics

## Grand Means

11.334 grams/10 mins

11.405 grams/10 mins

## Std Dev Btwn Labs

0.498 grams/10 mins

0.502 grams/10 mins

Statistics based on 80 of 88 reporting participants

Sample X27: PP &amp; Sample X28: PP

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

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

2GTDMX (X) - Data for both samples are low. Also inconsistent in testing within Sample X27.

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

GEV6YE (X) - Data for both samples are high.

GQA9B4 (X) - Inconsistent in testing between samples, data for Sample X27 are high.

JNCGC3 (X) - Data for both samples are low.

M8AZRL (X) - Data for both samples are high. Also inconsistent in testing within Sample X28.

T6QZ8Y (X) - Data for both samples are low.

W2BVTZ (X) - Inconsistent in testing between samples, data for Sample X28 are low.

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

(AT) - Atlas

(CS) - CSI

(GO) - Gottfert

(TM) - TMI

(TY) - Toyoseiki Seisakusho

(XX) - Instrument manufacturer not specified by lab

(CE) - Ceast

(DY) - Dynisco

(KA) - Kayeness

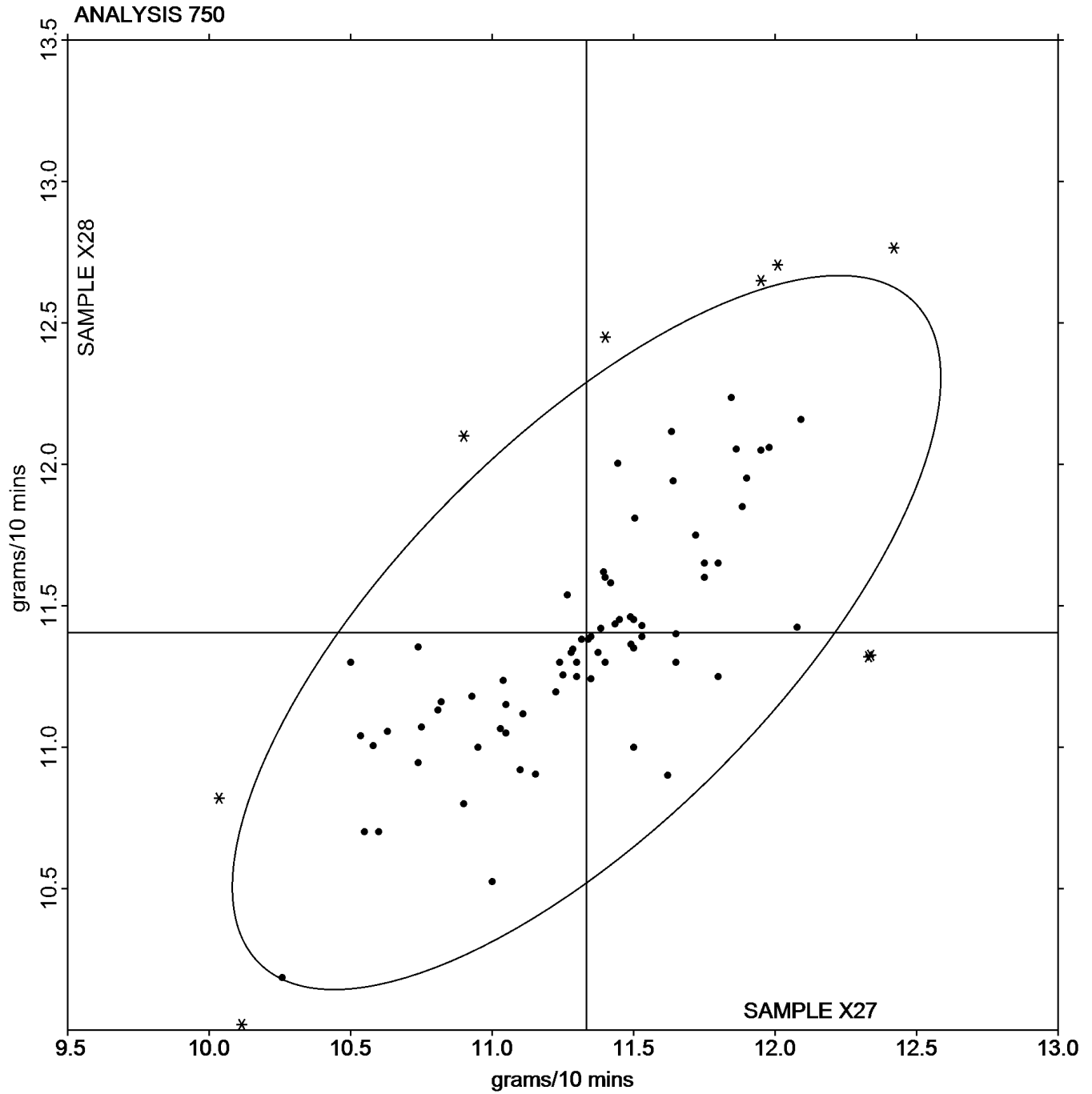
(TO) - Tinius Olsen

(WZ) - Zwick

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

Grand Mean Sample X27: 11.334 grams/10 mins

Grand Mean Sample X28: 11.405 grams/10 mins



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

## Analysis 718

## Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T27			Sample T28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2GEWM4		1.04021	-0.00486	-2.27	1.04045	-0.00472	-2.29	XX
34898E		1.04567	0.00060	0.28	1.04520	0.00004	0.02	XX
3JJPAB		1.04320	-0.00187	-0.87	1.04330	-0.00186	-0.91	XX
3UK8TQ		1.04467	-0.00040	-0.19	1.04433	-0.00083	-0.40	XX
42NXFZ		1.04578	0.00071	0.33	1.04569	0.00053	0.26	XX
4BZ3EC		1.04327	-0.00180	-0.84	1.04463	-0.00053	-0.26	XX
4EGGVQ		1.04567	0.00060	0.28	1.04550	0.00034	0.16	XX
4WH3XK		1.04713	0.00206	0.96	1.04693	0.00177	0.86	XX
6DKEQM		1.04773	0.00266	1.24	1.04867	0.00350	1.70	XX
6F9JR7		1.04233	-0.00274	-1.28	1.04333	-0.00183	-0.89	XX
6MTLTG	X	1.05267	0.00760	3.55	1.04667	0.00150	0.73	XX
6TEUYT		1.04467	-0.00040	-0.19	1.04500	-0.00016	-0.08	XX
6V62G6		1.04030	-0.00477	-2.23	1.04150	-0.00366	-1.78	XX
72K282		1.04883	0.00376	1.76	1.04890	0.00374	1.82	XX
74RDTA		1.04263	-0.00244	-1.14	1.04390	-0.00126	-0.61	XX
77FQWL		1.04300	-0.00207	-0.97	1.04333	-0.00183	-0.89	XX
78BD6J	*	1.04000	-0.00507	-2.37	1.04200	-0.00316	-1.54	XX
7LAC7U		1.04667	0.00160	0.75	1.04733	0.00217	1.05	XX
7LC6UU		1.04583	0.00076	0.36	1.04617	0.00100	0.49	XX
8BP74N		1.04667	0.00160	0.75	1.04800	0.00284	1.38	XX
8GXNZW	*	1.04833	0.00326	1.52	1.04567	0.00050	0.24	XX
8KCA3B		1.04707	0.00200	0.93	1.04653	0.00137	0.67	XX
8LM7E8		1.04297	-0.00210	-0.98	1.04483	-0.00033	-0.16	XX
8LN4P3		1.04637	0.00130	0.61	1.04593	0.00077	0.37	XX
8UXMUU		1.04367	-0.00140	-0.66	1.04367	-0.00150	-0.73	XX
8YTBCM		1.04483	-0.00024	-0.11	1.04460	-0.00056	-0.27	XX
AE4KKU		1.04543	0.00036	0.17	1.04390	-0.00126	-0.61	XX
AN7Z7T		1.04537	0.00030	0.14	1.04443	-0.00073	-0.35	XX
AQRUZ8		1.04343	-0.00164	-0.76	1.04353	-0.00163	-0.79	XX
AQW7N4		1.04333	-0.00174	-0.81	1.04333	-0.00183	-0.89	XX
BHW2CE		1.04323	-0.00184	-0.86	1.04527	0.00010	0.05	XX
BPURNN	X	1.04500	-0.00007	-0.03	1.04067	-0.00450	-2.19	XX

## Plastics Interlaboratory Testing Program

## Analysis 718

## Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T27			Sample T28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
BTH99H		1.04867	0.00360	1.68	1.04900	0.00384	1.87	XX
C2MJWY		1.04765	0.00258	1.20	1.04765	0.00249	1.21	XX
C3ZA4H		1.04200	-0.00307	-1.43	1.04067	-0.00450	-2.19	XX
C8QQAG		1.04633	0.00126	0.59	1.04737	0.00220	1.07	XX
ELMHEH		1.04430	-0.00077	-0.36	1.04437	-0.00080	-0.39	XX
ET2GFM		1.04800	0.00293	1.37	1.04800	0.00284	1.38	XX
F4UFHD		1.04373	-0.00134	-0.62	1.04473	-0.00043	-0.21	XX
FFR8F4		1.04190	-0.00317	-1.48	1.04183	-0.00333	-1.62	XX
FGLXJX		1.04633	0.00126	0.59	1.04600	0.00084	0.41	XX
GGJM8R		1.04707	0.00200	0.93	1.04700	0.00184	0.89	XX
GJ9UP3		1.04660	0.00153	0.71	1.04637	0.00120	0.58	XX
GM88CT		1.04353	-0.00154	-0.72	1.04337	-0.00180	-0.87	XX
GMBRZV		1.04567	0.00060	0.28	1.04367	-0.00150	-0.73	XX
GPEP93		1.04550	0.00043	0.20	1.04483	-0.00033	-0.16	XX
GQ9DMR		1.04657	0.00150	0.70	1.04687	0.00170	0.83	XX
HDECQH		1.04587	0.00080	0.37	1.04367	-0.00150	-0.73	XX
J2HMA9		1.04383	-0.00124	-0.58	1.04437	-0.00080	-0.39	XX
J2YTMD		1.04620	0.00113	0.53	1.04547	0.00030	0.15	XX
J3D92E		1.04687	0.00180	0.84	1.04693	0.00177	0.86	XX
J9LEVY		1.04393	-0.00114	-0.53	1.04493	-0.00023	-0.11	XX
JDRAEY		1.04543	0.00036	0.17	1.04567	0.00050	0.24	XX
JENQQW		1.04773	0.00266	1.24	1.04767	0.00250	1.22	XX
JFHE87		1.04280	-0.00227	-1.06	1.04250	-0.00266	-1.29	XX
JPLQ4Z		1.04633	0.00126	0.59	1.04700	0.00184	0.89	XX
KE64UY		1.04673	0.00166	0.78	1.04670	0.00154	0.75	XX
KKPENU		1.04383	-0.00124	-0.58	1.04510	-0.00006	-0.03	XX
KKQCYQ		1.04683	0.00176	0.82	1.04653	0.00137	0.67	XX
KLKRHA		1.04483	-0.00024	-0.11	1.04547	0.00030	0.15	XX
KLKXRG		1.04537	0.00030	0.14	1.04453	-0.00063	-0.31	XX
KQUZUC		1.04813	0.00306	1.43	1.04817	0.00300	1.46	XX
L7RMK6		1.04213	-0.00294	-1.37	1.04403	-0.00113	-0.55	XX
LBHT9E		1.04567	0.00060	0.28	1.04600	0.00084	0.41	XX

## Plastics Interlaboratory Testing Program

## Analysis 718

## Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T27			Sample T28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
LFBYX3		1.04623	0.00116	0.54	1.04547	0.00030	0.15	XX
LHZ7FE		1.04447	-0.00060	-0.28	1.04350	-0.00166	-0.81	XX
LMP2NC		1.04744	0.00237	1.11	1.04706	0.00190	0.92	XX
LV8FKF		1.04677	0.00170	0.79	1.04773	0.00257	1.25	XX
LZGJMB		1.04433	-0.00074	-0.34	1.04233	-0.00283	-1.38	XX
M2QYF3		1.04693	0.00186	0.87	1.04657	0.00140	0.68	XX
NB9VPE		1.04623	0.00116	0.54	1.04627	0.00110	0.54	XX
NBQTAR		1.04467	-0.00040	-0.19	1.04460	-0.00056	-0.27	XX
NHQBMH		1.04563	0.00056	0.26	1.04570	0.00054	0.26	XX
PRDTFG		1.04570	0.00063	0.29	1.04557	0.00040	0.20	XX
PT9ATE		1.04683	0.00176	0.82	1.04673	0.00157	0.76	XX
Q3QBNE		1.04116	-0.00391	-1.83	1.04144	-0.00372	-1.81	XX
QDAM2C	X	1.03650	-0.00857	-4.00	1.03683	-0.00833	-4.05	XX
QUYRA7		1.04537	0.00030	0.14	1.04497	-0.00020	-0.10	XX
R438TJ	*	1.04330	-0.00177	-0.83	1.04127	-0.00390	-1.89	XX
RBY3T3		1.04590	0.00083	0.39	1.04487	-0.00030	-0.14	XX
REWP4H	X	1.03680	-0.00827	-3.86	1.04050	-0.00466	-2.27	XX
T3HTYE	*	1.04267	-0.00240	-1.12	1.04067	-0.00450	-2.19	XX
TM88GA		1.04683	0.00176	0.82	1.04730	0.00214	1.04	XX
TXAPRD	*	1.03960	-0.00548	-2.56	1.04184	-0.00332	-1.62	XX
VFGF2T		1.04740	0.00233	1.09	1.04737	0.00220	1.07	XX
VYE2HD	*	1.04567	0.00060	0.28	1.04813	0.00297	1.44	XX
W3RW3G		1.04753	0.00246	1.15	1.04737	0.00220	1.07	XX
X7LCRF		1.04170	-0.00337	-1.57	1.04320	-0.00196	-0.95	XX
XA6AEK		1.04407	-0.00100	-0.47	1.04430	-0.00086	-0.42	XX
XFY78H		1.04567	0.00060	0.28	1.04667	0.00150	0.73	XX
YCNQ8P		1.04000	-0.00507	-2.37	1.04100	-0.00416	-2.02	XX
YNLNWB		1.04803	0.00296	1.38	1.04813	0.00297	1.44	XX
YPF97P	X	0.95693	-0.08814	-41.16	0.95693	-0.08823	-42.89	XX
YWEXL8		1.04553	0.00046	0.22	1.04573	0.00057	0.28	XX
ZMHN8U		1.04643	0.00136	0.64	1.04663	0.00147	0.71	XX



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

WebCode	Data Flag	Sample T27			Sample T28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
ZWDGQM		1.04470	-0.00037	-0.17	1.04513	-0.00003	-0.01	XX

Summary Statistics			
Grand Means	1.045071	sp gr 23/23 C	1.045163 sp gr 23/23 C
Std Dev Btwn Labs	0.002141	sp gr 23/23 C	0.002057 sp gr 23/23 C
Statistics based on 91 of 96 reporting participants			

Sample T27: ABS & Sample T28: ABS

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

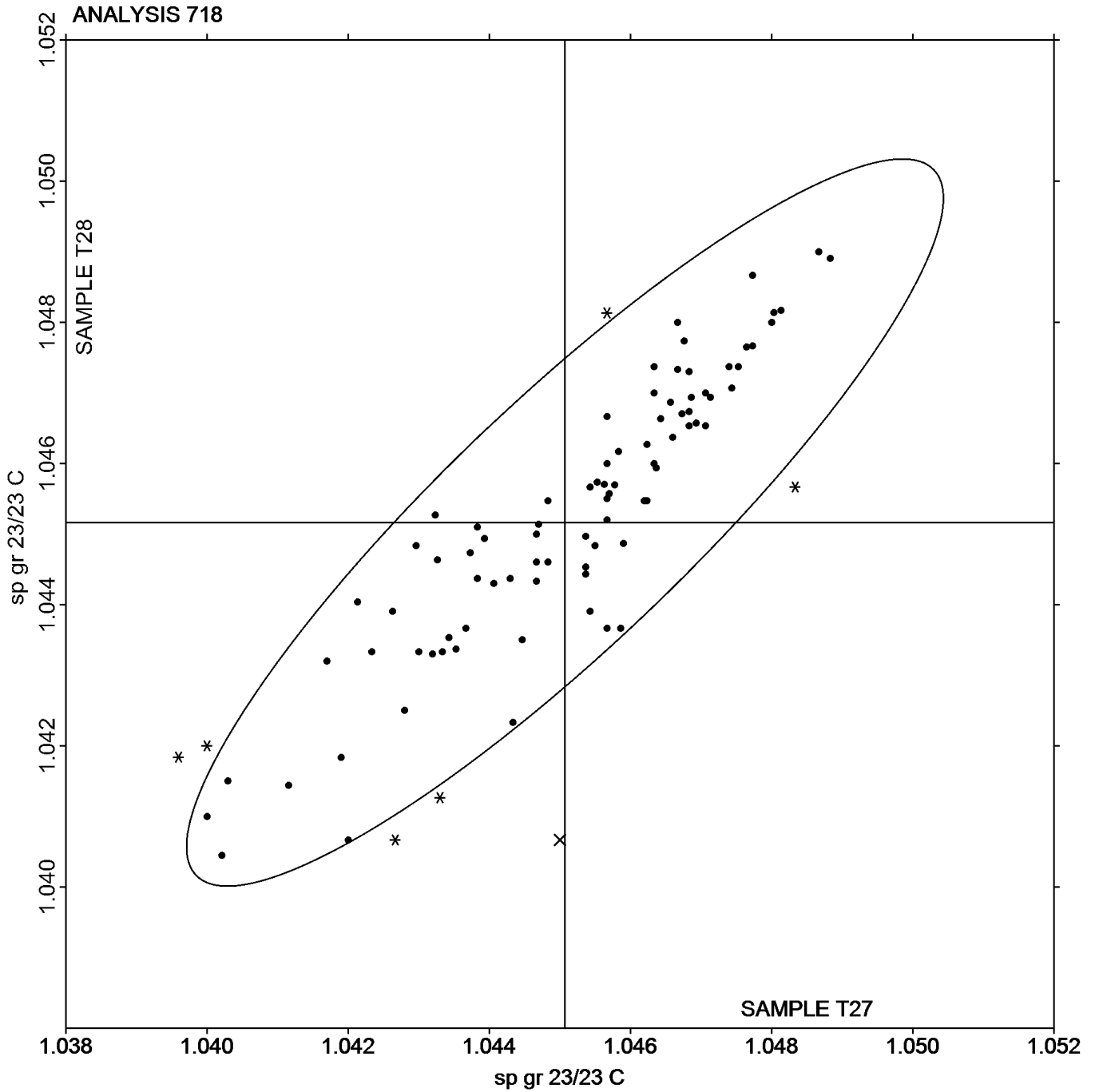
- 6MTLTG (X) - Inconsistent in testing between samples, data for Sample T27 are high.
- BPURNN (X) - Inconsistent in testing between samples and inconsistent in testing within Sample T27.
- QDAM2C (X) - Data for both samples are low. Possible systematic error. Also inconsistent in testing within Sample T27.
- REWP4H (X) - Inconsistent in testing between samples, data for Sample T27 are low. Also inconsistent in testing within Sample T27.
- YPF97P (X) - Data for both samples are low.

**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 T27: 1.0451 sp gr 23/23 C      Grand Mean Sample T28: 1.0452 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 L27			Sample L28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
28Q4B8		21.400	-0.119	-0.87	21.350	-0.175	-1.17	XX
34898E		21.665	0.146	1.07	21.550	0.025	0.17	XX
3BKFMH		21.315	-0.204	-1.49	21.505	-0.020	-0.13	XX
3JJPAB		21.640	0.121	0.89	21.655	0.130	0.87	XX
4BZ3EC		21.670	0.151	1.11	21.475	-0.050	-0.34	XX
4VMJUY		21.774	0.255	1.87	21.755	0.230	1.54	XX
6TEUYT		21.670	0.151	1.11	21.875	0.350	2.34	XX
6XU8YF		21.520	0.001	0.01	21.575	0.050	0.33	XX
74RDTA		21.230	-0.289	-2.12	21.615	0.090	0.60	XX
7LAC7U		21.540	0.021	0.16	21.495	-0.030	-0.20	XX
8GXNZW		21.400	-0.119	-0.87	21.460	-0.065	-0.44	XX
8J3E6Q		21.745	0.226	1.66	21.695	0.170	1.14	XX
8KCA3B		21.625	0.106	0.78	21.565	0.040	0.27	XX
8VGCCE		21.360	-0.159	-1.16	21.525	0.000	0.00	XX
AQRUZ8		21.470	-0.049	-0.36	21.470	-0.055	-0.37	XX
BGNWW6		21.485	-0.034	-0.25	21.855	0.330	2.21	XX
BPURNN		21.620	0.101	0.74	21.590	0.065	0.43	XX
C3ZA4H		21.450	-0.069	-0.50	21.500	-0.025	-0.17	XX
CVEHCV		21.780	0.261	1.91	21.510	-0.015	-0.10	XX
DFGFKP		21.620	0.101	0.74	21.455	-0.070	-0.47	XX
FFR8F4		21.585	0.066	0.49	21.450	-0.075	-0.50	XX
GGJM8R		21.510	-0.009	-0.06	21.745	0.220	1.47	XX
GJ9UP3		21.620	0.101	0.74	21.620	0.095	0.63	XX
GLX3VX		21.470	-0.049	-0.36	21.650	0.125	0.83	XX
GPEP93		21.545	0.026	0.19	21.595	0.070	0.47	XX
H7ZF2B		21.250	-0.269	-1.97	21.600	0.075	0.50	XX
J87DTX		21.605	0.086	0.63	21.585	0.060	0.40	XX
JENQQW		21.330	-0.189	-1.38	21.410	-0.115	-0.77	XX
JNCGC3	X	20.985	-0.534	-3.91	21.065	-0.460	-3.08	XX
KE64UY		21.390	-0.129	-0.94	21.770	0.245	1.64	XX
KKPENU		21.390	-0.129	-0.94	21.275	-0.250	-1.67	XX
KKQCYQ		21.490	-0.029	-0.21	21.785	0.260	1.74	XX

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

WebCode	Data Flag	Sample L27			Sample L28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
KLKXRG	X	21.205	-0.314	-2.30	21.895	0.370	2.47	XX
KYTGPC		21.575	0.056	0.41	21.380	-0.145	-0.97	XX
L7RMK6		21.730	0.211	1.55	21.420	-0.105	-0.70	XX
LHZ7FE		21.455	-0.064	-0.47	21.360	-0.165	-1.10	XX
M8AZRL		21.595	0.076	0.56	21.415	-0.110	-0.74	XX
NBQTAR		21.590	0.071	0.52	21.580	0.055	0.37	XX
NGWPUR		21.550	0.031	0.23	21.615	0.090	0.60	XX
PKCEW2		21.475	-0.044	-0.32	21.487	-0.038	-0.26	XX
PT9ATE		21.425	-0.094	-0.69	21.445	-0.080	-0.54	XX
QDAM2C		21.555	0.036	0.27	21.405	-0.120	-0.80	XX
QUYRA7		21.460	-0.059	-0.43	21.507	-0.019	-0.12	XX
RBY3T3		21.570	0.051	0.38	21.380	-0.145	-0.97	XX
REWP4H		21.325	-0.194	-1.42	21.250	-0.275	-1.84	XX
RFWKTF		21.320	-0.199	-1.46	21.385	-0.140	-0.94	XX
RKM33K		21.410	-0.109	-0.80	21.595	0.070	0.47	XX
RXBZCV		21.325	-0.194	-1.42	21.440	-0.085	-0.57	XX
VADPF2		21.465	-0.054	-0.39	21.420	-0.105	-0.70	XX
VFGF2T		21.740	0.221	1.62	21.850	0.325	2.17	XX
VYE2HD		21.505	-0.014	-0.10	21.600	0.075	0.50	XX
XA6AEK		21.685	0.166	1.22	21.565	0.040	0.27	XX
XFY78H		21.645	0.126	0.92	21.290	-0.235	-1.57	XX
YCNQ8P		21.490	-0.029	-0.21	21.505	-0.020	-0.13	XX
YNLNWB		21.550	0.031	0.23	21.406	-0.120	-0.80	XX
YPF97P		21.320	-0.199	-1.46	21.310	-0.215	-1.44	XX
YWEXL8		21.610	0.091	0.67	21.315	-0.210	-1.40	XX

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

**Summary Statistics**

Grand Means

21.5188 Percent

21.5252 Percent

Std Dev Btwn Labs

0.1365 Percent

0.1496 Percent

Statistics based on 55 of 57 reporting participants

Sample L27: PP &amp; Sample L28: PP

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

JNCGC3 (X) - Data for both samples are low.

KLKXRG (X) - Inconsistent in testing between samples.

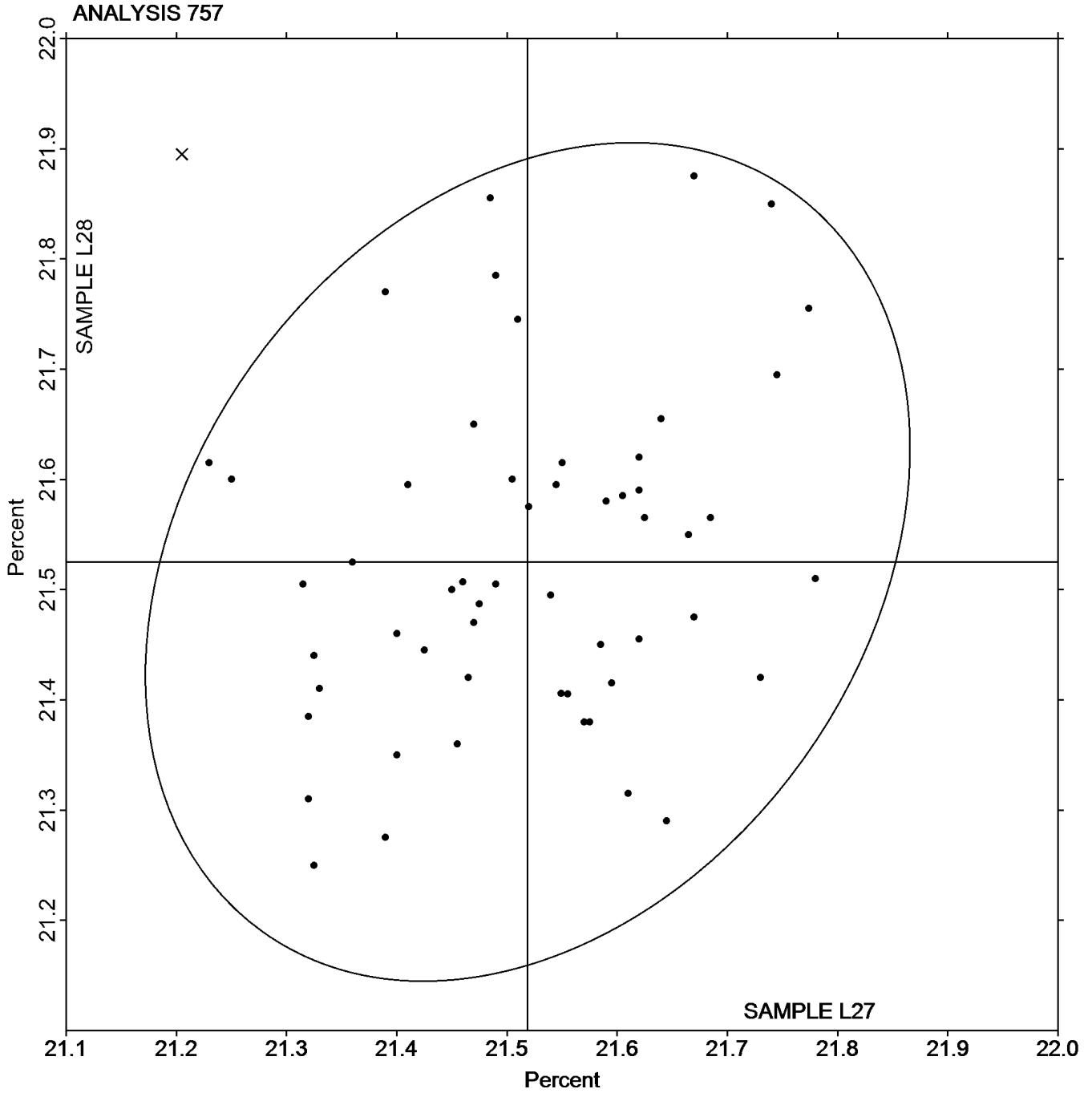
**Instrument Code List as Reported by the Labs**

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

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

Grand Mean Sample L27: 21.519 Percent

Grand Mean Sample L28: 21.525 Percent



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

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

WebCode	Data Flag	Sample B27			Sample B28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2ME9N3		1,021	-1,376	-1.47	1,043	-1,347	-1.51	IN
2P7EUK		3,006	609	0.65	2,938	547	0.61	SH
7NCAF2		3,420	1,023	1.10	3,389	998	1.12	IN
AQRUZ8		2,451	54	0.06	2,614	223	0.25	WZ
DZLNZ7H		1,800	-597	-0.64	1,790	-601	-0.67	IN
EFBM4T		3,246	849	0.91	3,294	904	1.01	IN
GMRT2C		2,938	541	0.58	2,860	469	0.53	TH
GQ9DMR		2,762	365	0.39	2,770	379	0.43	MT
JPLQ4Z		1,717	-681	-0.73	1,757	-633	-0.71	MT
KKP9EM		3,277	880	0.94	3,167	777	0.87	IN
LV8FKF		3,734	1,337	1.43	3,482	1,092	1.22	LI
NHQBMH	M	2,868	471	0.50	No data reported for this sample			IN
PB6JUV		3,395	997	1.07	3,433	1,042	1.17	XX
R438TJ		1,490	-907	-0.97	1,479	-911	-1.02	IN
RKM33K		1,627	-770	-0.83	1,705	-685	-0.77	IN
WL8763		1,490	-907	-0.97	1,499	-892	-1.00	IN
WRBGM		983	-1,414	-1.51	1,031	-1,360	-1.52	IN

Summary Statistics	
Grand Means	2,397.4 psi
Std Dev Btwn Labs	933.6 psi
	2,390.8 psi
	891.7 psi
Statistics based on 16 of 17 reporting participants	

Sample B27: LDPE & Sample B28: LDPE

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

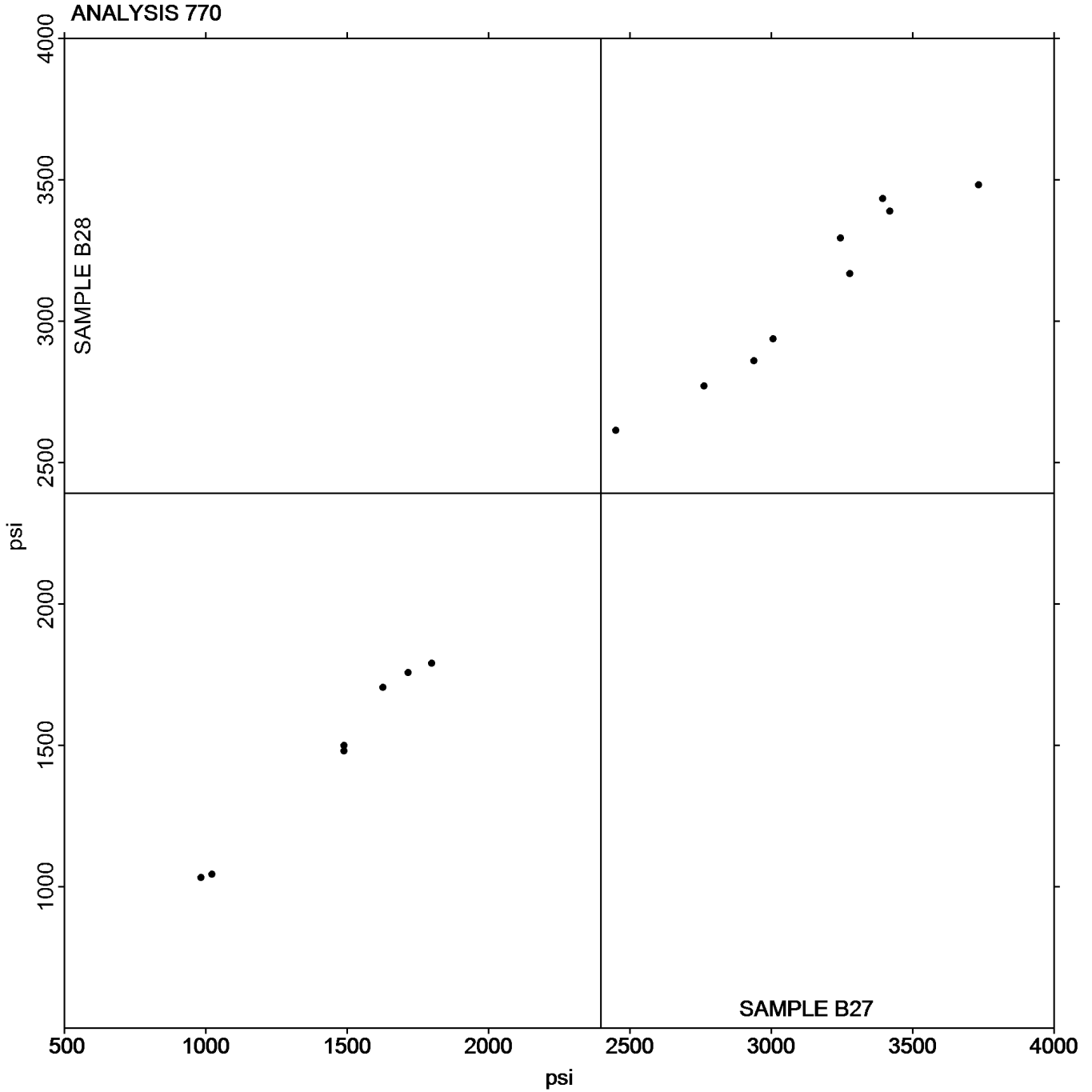
NHQBMH (M) - Laboratory did not submit data for Sample B28.

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

- |   |                          |
|---|--------------------------|
| (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 770  
Tensile Stress at Yield, Film Samples - psi

Grand Mean Sample B27: 2,397.43 psi      Grand Mean Sample B28: 2,390.76 psi



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



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

WebCode	Data Flag	Sample B27			Sample B28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2ME9N3		3,330	-24	-0.12	3,325	-14	-0.05	IN
2P7EUK		3,440	85	0.42	3,215	-123	-0.44	SH
7M6RJQ	*	3,905	550	2.68	4,249	911	3.28	WZ
7NCAF2		3,420	66	0.32	3,389	50	0.18	IN
AQRUZ8		3,070	-284	-1.39	3,037	-301	-1.08	WZ
BWV4KL		3,720	365	1.78	3,915	577	2.08	WZ
C3ZA4H		3,063	-291	-1.42	3,083	-255	-0.92	XX
DZLNZ7H		3,171	-184	-0.90	3,117	-221	-0.80	IN
EFBM4T		3,316	-38	-0.19	3,391	53	0.19	IN
FXDPGR		3,229	-126	-0.61	3,360	22	0.08	IN
GGJM8R		3,527	173	0.84	3,378	40	0.14	IN
GMRT2C		3,402	47	0.23	3,315	-23	-0.08	TH
GQ9DMR		3,369	14	0.07	3,433	95	0.34	MT
JDRAEY		3,438	83	0.41	3,157	-181	-0.65	IN
JPLQ4Z		3,250	-105	-0.51	3,259	-79	-0.28	MT
KKP9EM		3,313	-42	-0.21	3,222	-117	-0.42	IN
LV8FKF	*	3,734	379	1.85	3,482	143	0.52	LI
MGNV2L		3,134	-221	-1.08	3,085	-254	-0.91	SH
NHQBMH		3,410	56	0.27	3,351	13	0.05	IN
PB6JUV		3,363	9	0.04	3,417	79	0.28	SH
R438TJ		3,090	-265	-1.29	3,002	-336	-1.21	IN
RKM33K		3,233	-122	-0.59	2,955	-383	-1.38	IN
WL8763		3,254	-101	-0.49	3,325	-14	-0.05	IN
WRBGTM		3,346	-9	-0.04	3,475	137	0.49	IN
ZWDGQM		3,339	-16	-0.08	3,519	181	0.65	IM

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

**Summary Statistics**

Grand Means

3,354.7 psi

3,338.2 psi

Std Dev Btwn Labs

204.9 psi

278.0 psi

Statistics based on 25 of 25 reporting participants

Sample B27: LDPE &amp; Sample B28: LDPE

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

(IM) - Instru-Met Instruments

(IN) - Instron

(LI) - Lloyd Instruments

(MT) - MTS/Sintech

(SH) - Shimadzu

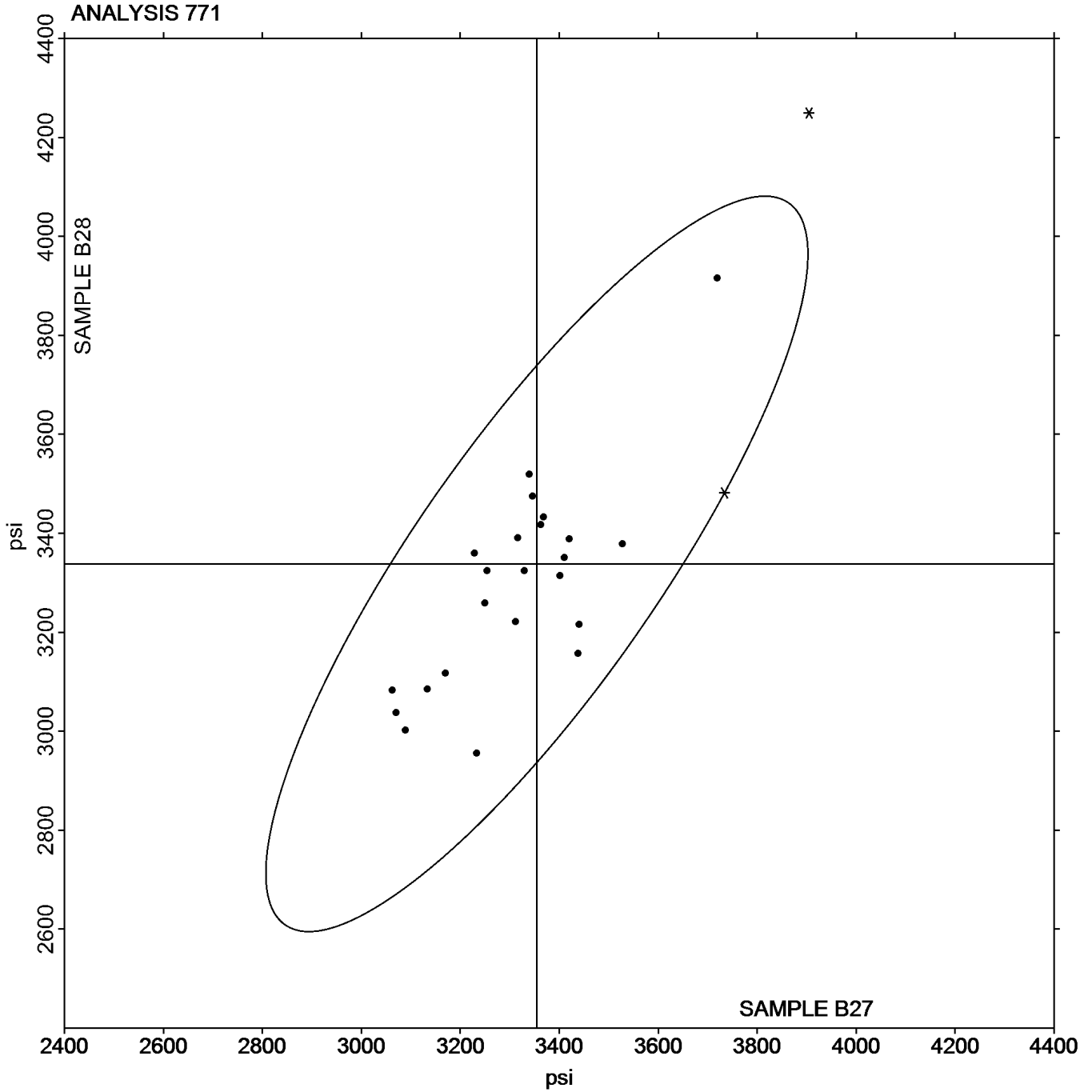
(TH) - Thwing Albert

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B27: 3,354.71 psi    Grand Mean Sample B28: 3,338.18 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 B27			Sample B28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2ME9N3		5.62	-152.62	-0.84	5.55	-149.81	-0.85	IN
2P7EUK		140.56	-17.68	-0.10	140.84	-14.52	-0.08	SH
7NCAF2		482.11	323.87	1.78	465.66	310.29	1.75	IN
AQRUZ8		63.25	-94.99	-0.52	67.54	-87.83	-0.50	WZ
DZLNZ7H		37.94	-120.30	-0.66	37.04	-118.33	-0.67	IN
EFBM4T		292.72	134.48	0.74	285.46	130.09	0.73	IN
GQ9DMR		121.48	-36.76	-0.20	121.38	-33.99	-0.19	MT
JPLQ4Z		14.31	-143.94	-0.79	14.69	-140.68	-0.79	MT
KKP9EM		287.70	129.46	0.71	268.21	112.84	0.64	IN
LV8FKF		430.14	271.90	1.50	424.31	268.94	1.52	LI
NHQBMH	M	100.08	-58.16	-0.32	No data reported for this sample			IN
PB6JUV		458.75	300.50	1.66	457.61	302.25	1.71	SH
R438TJ		13.21	-145.03	-0.80	11.54	-143.83	-0.81	IN
RKM33K		14.44	-143.80	-0.79	19.07	-136.30	-0.77	IN
WL8763		6.53	-151.71	-0.84	6.31	-149.05	-0.84	IN
WRBGTM		4.88	-153.36	-0.84	5.29	-150.08	-0.85	IN

Summary Statistics			
Grand Means	158.242	Percent	155.367
			Percent
Std Dev Btwn Labs	181.539	Percent	177.068
			Percent
Statistics based on 15 of 16 reporting participants			

Sample B27: LDPE & Sample B28: LDPE

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

NHQBMH (M) - Laboratory did not submit data for Sample B28.

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

(IN) - Instron

(LI) - Lloyd Instruments

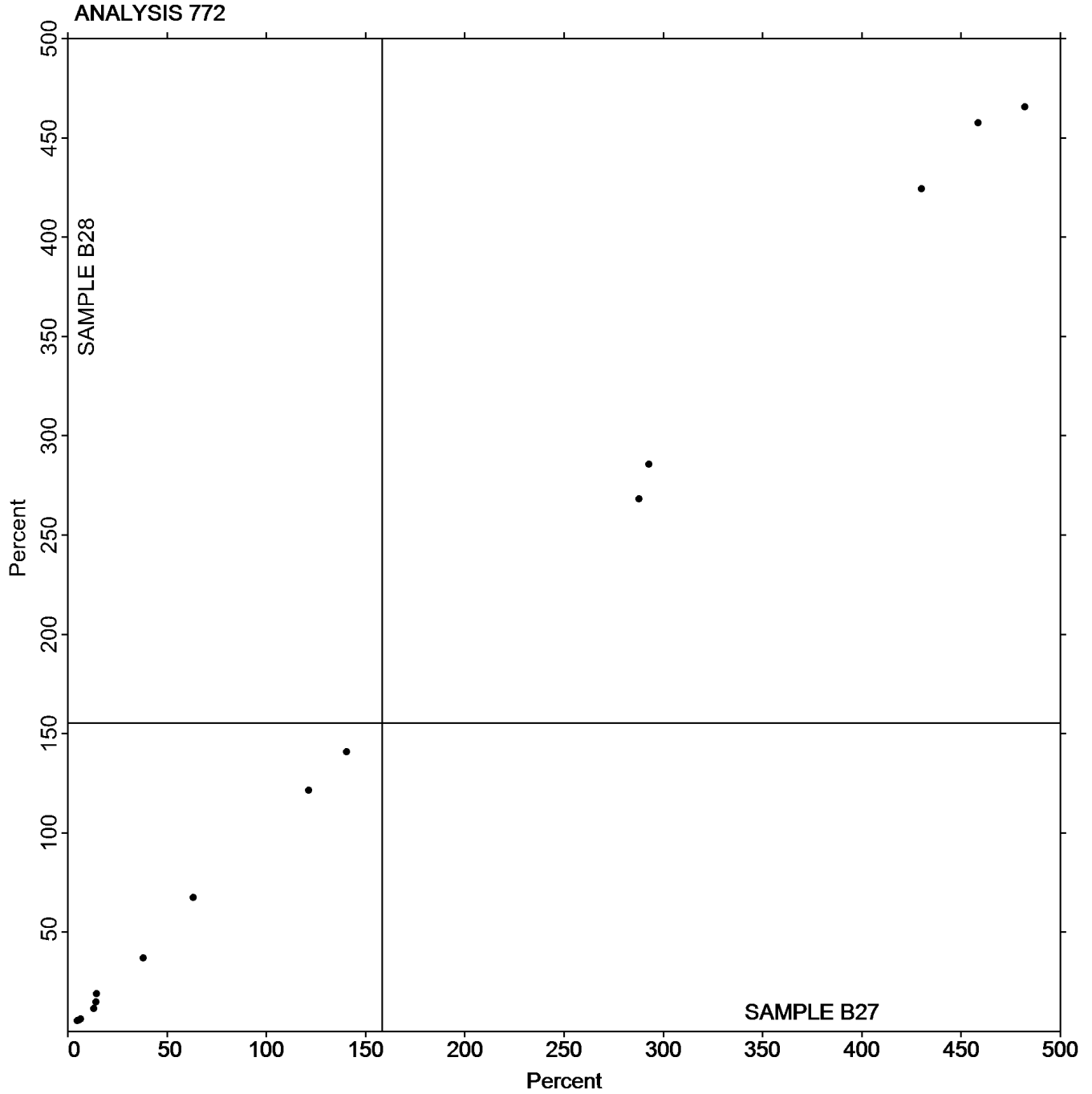
(MT) - MTS/Sintech

(SH) - Shimadzu

(WZ) - Zwick

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

Grand Mean Sample B27: 158.24 Percent      Grand Mean Sample B28: 155.37 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 B27			Sample B28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2ME9N3		363.7	-18.3	-0.24	359.5	-23.0	-0.29	IN
2P7EUK		385.9	3.9	0.05	311.6	-70.9	-0.90	SH
7M6RJQ		298.6	-83.4	-1.08	317.0	-65.5	-0.83	WZ
7NCAF2		482.1	100.1	1.29	465.7	83.2	1.06	IN
AQRUZ8		291.0	-91.0	-1.18	263.0	-119.5	-1.52	WZ
BWV4KL		297.4	-84.6	-1.09	315.5	-67.0	-0.85	WZ
C3ZA4H		505.3	123.3	1.59	459.5	77.1	0.98	XX
DZLNZ7H		450.1	68.1	0.88	421.8	39.3	0.50	IN
EFBM4T		317.0	-65.1	-0.84	322.4	-60.1	-0.76	IN
FXDPGR		366.3	-15.7	-0.20	386.1	3.6	0.05	IN
GGJM8R		370.1	-11.9	-0.15	385.1	2.6	0.03	IN
GMRT2C		267.1	-114.9	-1.48	272.7	-109.8	-1.39	TH
GQ9DMR		365.3	-16.7	-0.22	374.6	-7.9	-0.10	MT
JDRAEY		537.0	155.0	2.00	486.0	103.5	1.32	IN
JPLQ4Z		315.0	-67.0	-0.86	287.4	-95.0	-1.21	MT
KKP9EM		308.0	-74.0	-0.96	304.1	-78.3	-1.00	IN
LV8FKF		430.2	48.2	0.62	424.7	42.2	0.54	LI
MGNV2L		425.3	43.3	0.56	411.4	28.9	0.37	SH
NHQBMH		294.3	-87.7	-1.13	329.3	-53.2	-0.68	IN
PB6JUV		460.4	78.4	1.01	459.4	77.0	0.98	XX
R438TJ		407.7	25.7	0.33	420.2	37.7	0.48	IN
RKM33K		431.9	49.9	0.64	509.5	127.0	1.61	IN
WL8763		290.1	-91.9	-1.19	285.1	-97.4	-1.24	IN
WRBGTM		473.9	91.9	1.19	508.6	126.1	1.60	IN
ZWDGQM		416.3	34.3	0.44	481.3	98.8	1.26	IM

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

**Summary Statistics**

Grand Means

382.00 Percent

382.46 Percent

Std Dev Btwn Labs

77.44 Percent

78.72 Percent

Statistics based on 25 of 25 reporting participants

Sample B27: LDPE &amp; Sample B28: LDPE

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

(IM) - Instru-Met Instruments

(IN) - Instron

(LI) - Lloyd Instruments

(MT) - MTS/Sintech

(SH) - Shimadzu

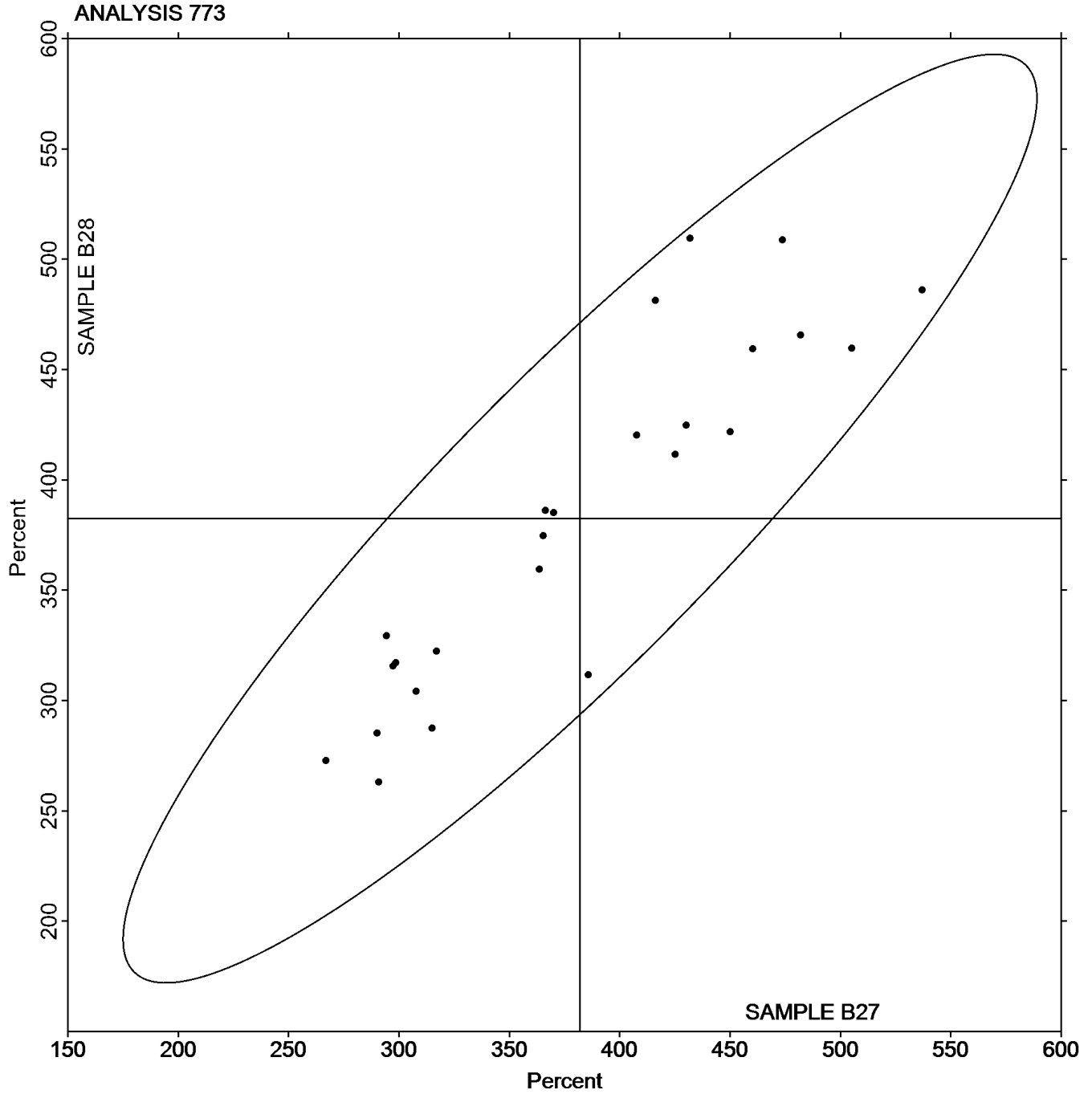
(TH) - Thwing Albert

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B27: 382.00 Percent      Grand Mean Sample B28: 382.46 Percent



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



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

WebCode	Data Flag	Sample B27			Sample B28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2ME9N3		2.6142	-0.0178	-0.17	2.6615	0.0256	0.19	XX
2P7EUK		2.7165	0.0845	0.79	2.7484	0.1126	0.82	XX
7M6RJQ	*	2.3966	-0.2354	-2.20	2.2289	-0.4070	-2.95	XX
7NCAF2		2.6400	0.0080	0.07	2.6560	0.0202	0.15	XX
AQRUZ8		2.6417	0.0097	0.09	2.6969	0.0610	0.44	XX
BWV4KL		2.3700	-0.2620	-2.45	2.3556	-0.2802	-2.03	XX
C3ZA4H		2.7600	0.1280	1.20	2.6500	0.0142	0.10	XX
DZLNZ7H		2.7008	0.0688	0.64	2.6812	0.0453	0.33	XX
EFBM4T		2.6480	0.0160	0.15	2.6630	0.0272	0.20	XX
FXDPGR		2.6820	0.0500	0.47	2.6820	0.0462	0.33	XX
GGJM8R		2.6300	-0.0020	-0.02	2.6200	-0.0158	-0.11	XX
GMRT2C		2.5700	-0.0620	-0.58	2.5800	-0.0558	-0.40	XX
GQ9DMR		2.6900	0.0580	0.54	2.6600	0.0242	0.18	XX
JDRAEY		2.6000	-0.0320	-0.30	2.6800	0.0442	0.32	XX
JPLQ4Z		2.7150	0.0830	0.78	2.6400	0.0042	0.03	XX
KKP9EM		2.5630	-0.0690	-0.65	2.6770	0.0412	0.30	XX
LV8FKF		2.4067	-0.2253	-2.11	2.3851	-0.2508	-1.82	XX
MGNV2L		2.5709	-0.0611	-0.57	2.7874	0.1516	1.10	XX
NHQBMH		2.6140	-0.0180	-0.17	2.7380	0.1022	0.74	XX
NVEFTU		2.7100	0.0780	0.73	2.7100	0.0742	0.54	XX
PB6JUV		2.7402	0.1082	1.01	2.7008	0.0650	0.47	XX
R438TJ		2.7700	0.1380	1.29	2.8300	0.1942	1.41	XX
RKM33K		2.7500	0.1180	1.10	2.7300	0.0942	0.68	XX
WL8763	*	2.6890	0.0570	0.53	2.4292	-0.2067	-1.50	XX
WRBGTM		2.6930	0.0610	0.57	2.7678	0.1319	0.96	XX
ZBEV8J		2.5360	-0.0960	-0.90	2.5520	-0.0838	-0.61	XX
ZWDGQM		2.6460	0.0140	0.13	2.6570	0.0212	0.15	XX

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

**Summary Statistics**

Grand Means

2.63199 mils

2.63584 mils

Std Dev Btwn Labs

0.10695 mils

0.13791 mils

Statistics based on 27 of 27 reporting participants

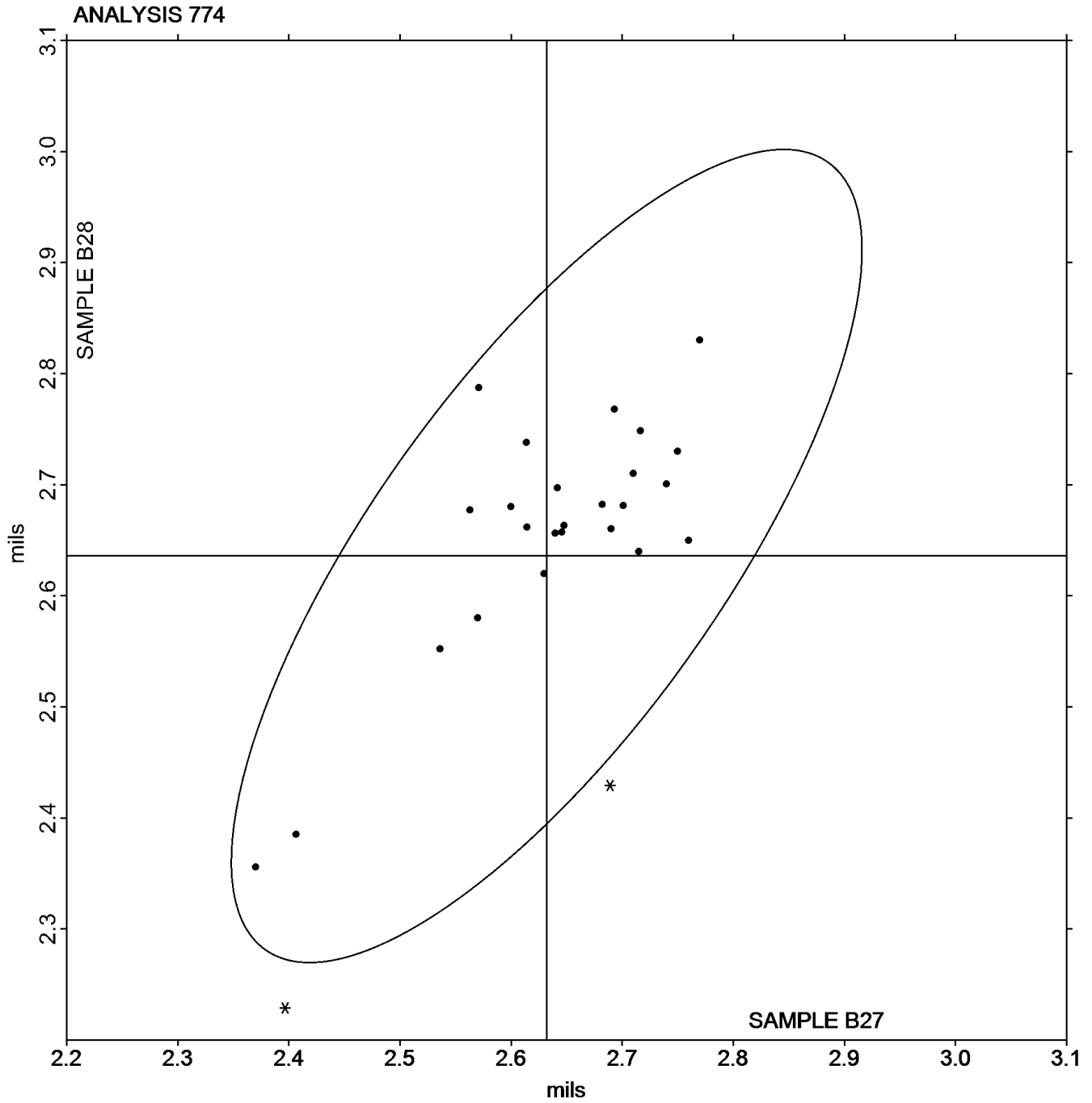
Sample B27: LDPE &amp; Sample B28: LDPE

**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 B27: 2.6320 mils      Grand Mean Sample B28: 2.6358 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 B27			Sample B28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2ME9N3		36,877	5,684	1.96	36,429	5,238	2.00	IN
2P7EUK	X	25,024	-6,169	-2.12	33,362	2,171	0.83	SH
7NCAF2		29,548	-1,645	-0.57	29,275	-1,916	-0.73	IN
AQRUZ8		32,170	976	0.34	31,067	-123	-0.05	WZ
DZLNZ7H		30,795	-399	-0.14	30,006	-1,185	-0.45	IN
EFBM4T		32,584	1,390	0.48	32,035	845	0.32	IN
GGJM8R		32,228	1,035	0.36	31,455	264	0.10	IN
GMRT2C		33,237	2,044	0.70	34,098	2,907	1.11	TH
JDRAEY		26,740	-4,453	-1.53	26,910	-4,281	-1.63	IN
JPLQ4Z		32,593	1,400	0.48	32,550	1,360	0.52	MT
KKP9EM		33,536	2,343	0.81	32,867	1,677	0.64	IN
LV8FKF		30,990	-204	-0.07	31,721	530	0.20	LI
NHQBMH		33,645	2,452	0.84	32,181	991	0.38	IN
PB6JUV		28,936	-2,258	-0.78	31,430	240	0.09	XX
R438TJ		27,517	-3,677	-1.27	28,536	-2,654	-1.01	IN
RKM33K		33,902	2,709	0.93	34,052	2,861	1.09	IN
WRBGTM		25,921	-5,272	-1.82	26,056	-5,134	-1.96	IN
ZWDGQM		29,068	-2,126	-0.73	29,571	-1,620	-0.62	IM

Summary Statistics	
Grand Means	31,193.3 psi
Std Dev Btwn Labs	2,903.6 psi
	31,190.6 psi
	2,625.5 psi
Statistics based on 17 of 18 reporting participants	

Sample B27: LDPE & Sample B28: LDPE

**Comments on assigned Data Flags for Test #775**

2P7EUK (X) - Inconsistent in testing between samples and inconsistent in testing within Sample B27.

Analysis 775

Secant Modulus at 1% Strain - psi

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

(IM) - Instru-Met Instruments

(IN) - Instron

(LI) - Lloyd Instruments

(MT) - MTS/Sintech

(SH) - Shimadzu

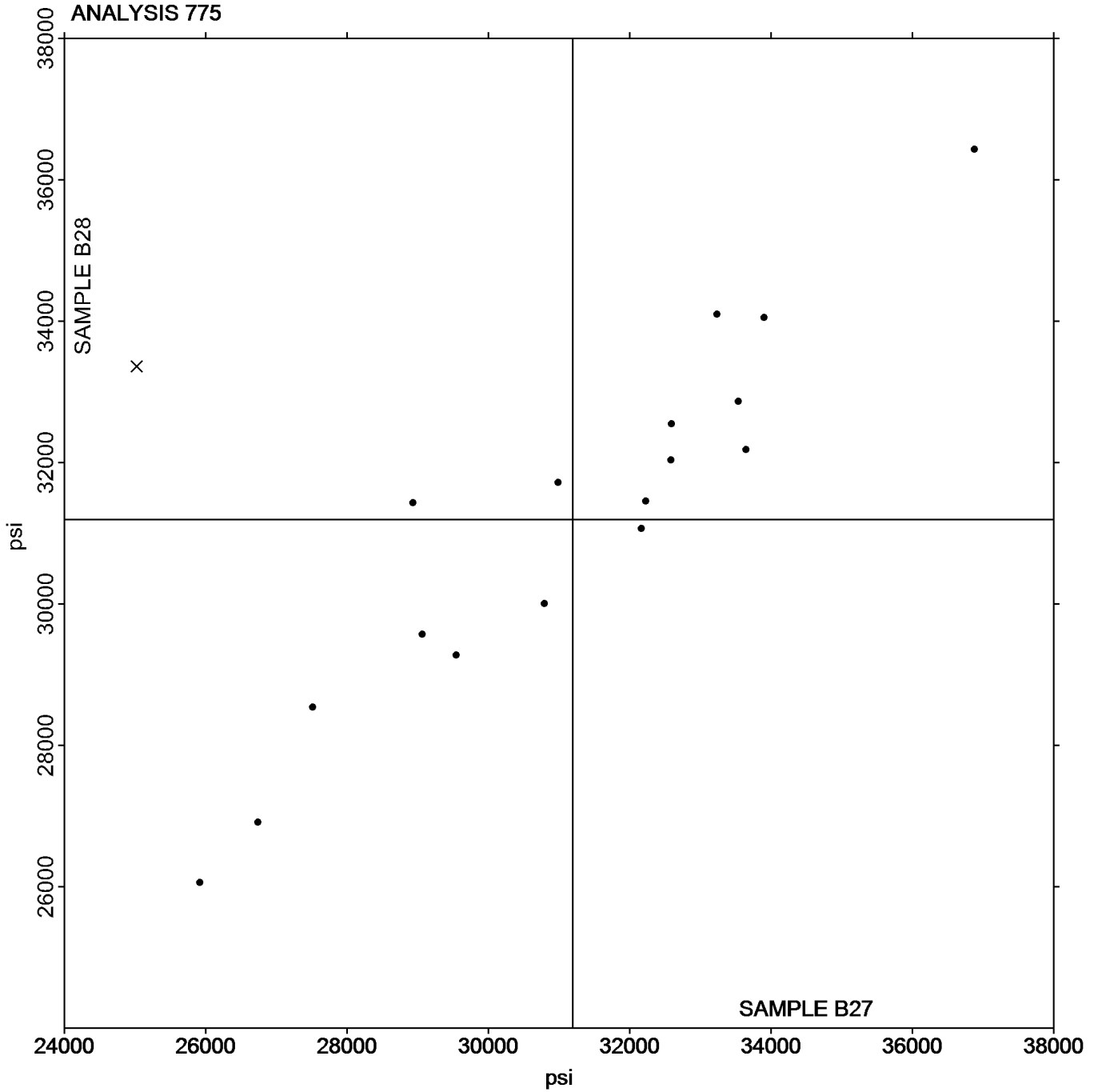
(TH) - Thwing Albert

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B27: 31,193.30 psi      Grand Mean Sample B28: 31,190.62 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 B27			Sample B28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2ME9N3		29,618	2,154	1.42	29,595	2,146	1.41	XX
2P7EUK		28,250	786	0.52	27,782	333	0.22	SH
7NCAF2		26,444	-1,020	-0.67	26,269	-1,180	-0.77	IN
AQRUZ8		26,223	-1,241	-0.82	25,483	-1,966	-1.29	IN
DZLNZ7H		28,035	571	0.38	27,607	158	0.10	IN
EFBM4T		28,057	593	0.39	27,604	155	0.10	IN
GGJM8R		27,815	351	0.23	27,206	-243	-0.16	IN
GMRT2C		28,774	1,310	0.87	29,412	1,962	1.29	TH
JDRAEY		24,620	-2,844	-1.88	24,790	-2,659	-1.74	IN
JPLQ4Z		28,007	543	0.36	28,026	577	0.38	MT
KKP9EM		28,167	703	0.47	27,761	311	0.20	IN
LV8FKF		26,913	-551	-0.36	27,404	-45	-0.03	LI
PB6JUV		29,566	2,103	1.39	30,309	2,860	1.87	XX
R438TJ		24,774	-2,690	-1.78	25,577	-1,872	-1.23	IN
RKM33K		28,268	804	0.53	28,103	653	0.43	IN
ZWDGQM		25,891	-1,573	-1.04	26,257	-1,192	-0.78	IM

Summary Statistics	
Grand Means	27,463.7 psi
Std Dev Btwn Labs	1,512.4 psi
	27,449.1 psi
	1,526.8 psi
Statistics based on 16 of 16 reporting participants	

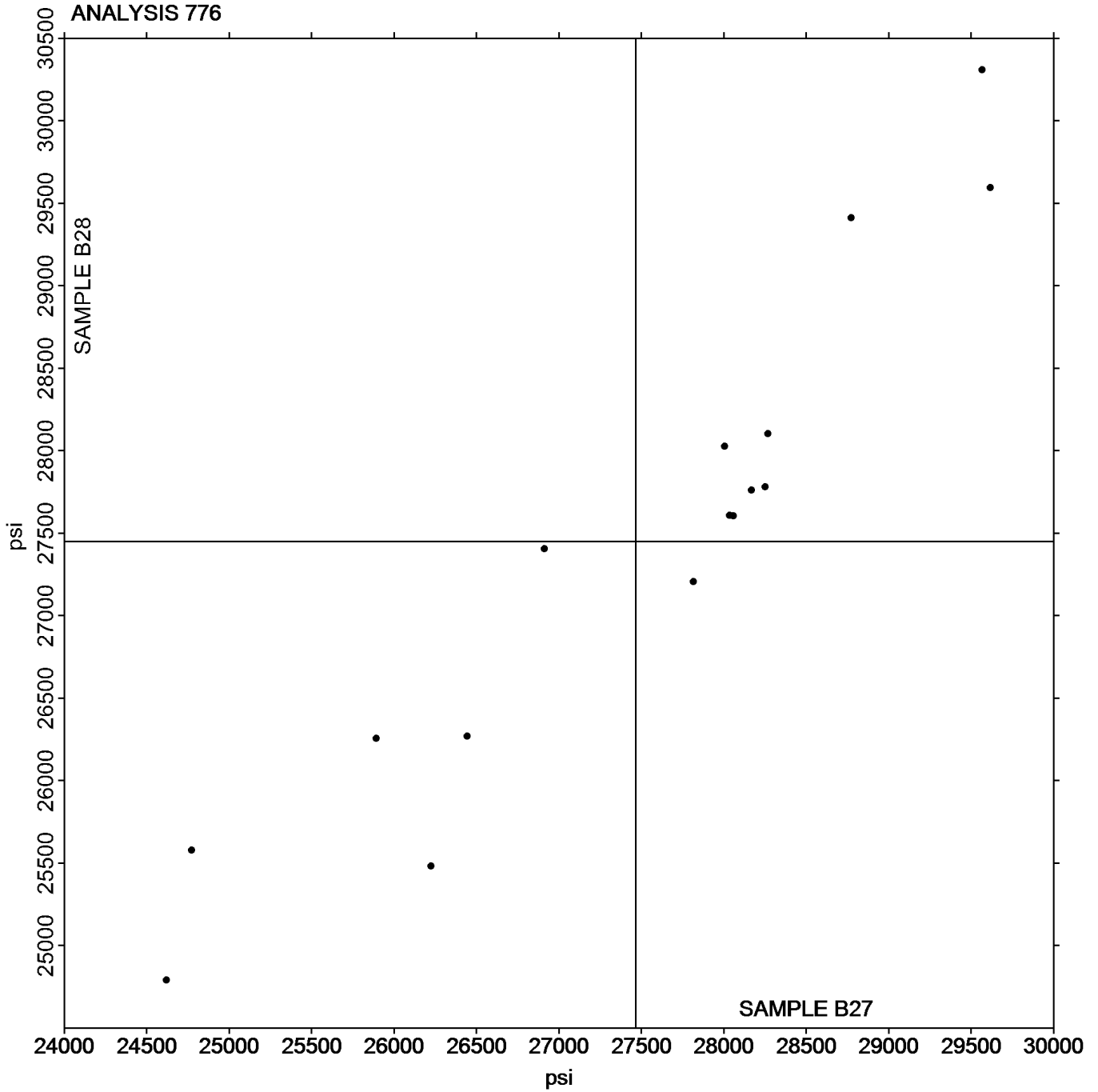
Sample B27: LDPE & Sample B28: LDPE

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

- (IM) - Instru-Met Instruments
- (LI) - Lloyd Instruments
- (SH) - Shimadzu
- (XX) - Instrument manufacturer not specified by lab
- (IN) - Instron
- (MT) - MTS/Sintech
- (TH) - Thwing Albert

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

Grand Mean Sample B27: 27,463.72 psi      Grand Mean Sample B28: 27,449.14 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 P27			Sample P28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
7M6RJQ		0.1764	0.0361	0.93	0.1936	0.0471	1.17	TH
AQRUZ8		0.1000	-0.0403	-1.04	0.1100	-0.0365	-0.91	TY
AQW7N4	*	0.2528	0.1125	2.89	0.2460	0.0995	2.48	TH
AWKV68		0.1552	0.0149	0.38	0.1488	0.0023	0.06	RD
BTH99H		0.1142	-0.0262	-0.67	0.1209	-0.0257	-0.64	IG
BWV4KL		0.1228	-0.0175	-0.45	0.1234	-0.0231	-0.58	RD
C3ZA4H		0.1000	-0.0403	-1.04	0.1000	-0.0465	-1.16	KA
GGJM8R		0.1640	0.0237	0.61	0.1520	0.0055	0.14	IS
GMRT2C		0.1460	0.0057	0.15	0.1516	0.0051	0.13	TH
GQ9DMR		0.1488	0.0085	0.22	0.1572	0.0107	0.27	MI
JPLQ4Z		0.1656	0.0253	0.65	0.1740	0.0275	0.69	MI
KKP9EM		0.1174	-0.0229	-0.59	0.1366	-0.0099	-0.25	TM
KQZF37		0.1768	0.0365	0.94	0.1984	0.0519	1.29	TH
M2QYF3		0.0780	-0.0623	-1.60	0.0680	-0.0785	-1.96	IG
M7KU9A		0.1158	-0.0245	-0.63	0.1354	-0.0111	-0.28	RD
MGNV2L		0.1800	0.0397	1.02	0.1920	0.0455	1.13	SA
NHQBMH		0.1126	-0.0277	-0.71	0.1188	-0.0277	-0.69	TH
QG93CL		0.1308	-0.0095	-0.24	0.1274	-0.0191	-0.48	MI
R438TJ		0.1472	0.0069	0.18	0.1672	0.0207	0.52	TN
WRBGTM		0.1440	0.0037	0.09	0.1500	0.0035	0.09	TL
YFLF34		0.0986	-0.0417	-1.07	0.1054	-0.0411	-1.03	TN

Summary Statistics			
Grand Means	0.14033	COF	0.14651
			COF
Std Dev Btwn Labs	0.03892	COF	0.04009
			COF
Statistics based on 21 of 21 reporting participants			

Sample P27: LDPE & Sample P28: 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

(KA) - Kayeness Inc.

(RD) - RDM CF

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

(TM) - TMI Slip and Friction Tester

(TY) - Toyoseiki

(IS) - Instron 5000 Series

(MI) - MTS Insight

(SA) - Shimadzu Autograph

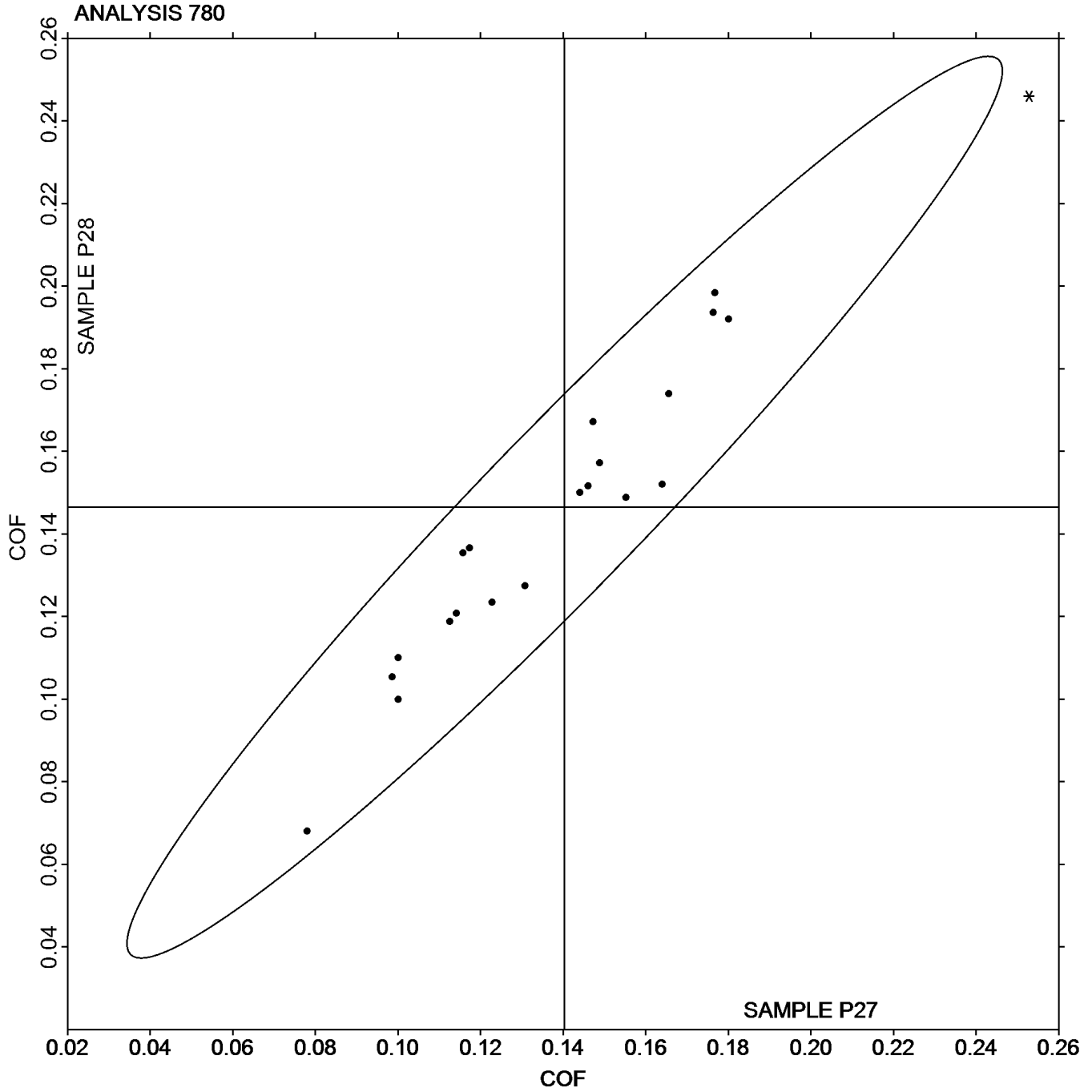
(TL) - TMI #32-90

(TN) - TMI #32-06

Plastics Interlaboratory Testing Program  
Analysis 780  
Coefficient of Static Friction

Grand Mean Sample P27: 0.14033 COF

Grand Mean Sample P28: 0.14651 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 P27			Sample P28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
7M6RJQ		0.1194	0.0055	0.22	0.1334	0.0103	0.46	TH
AQRUZ8		0.0620	-0.0519	-2.07	0.0860	-0.0371	-1.67	TY
AQW7N4		0.1662	0.0523	2.08	0.1666	0.0435	1.96	TH
AWKV68		0.1368	0.0229	0.91	0.1406	0.0175	0.79	RD
BTH99H		0.1266	0.0126	0.50	0.1390	0.0158	0.71	IG
BWV4KL		0.1216	0.0077	0.31	0.1190	-0.0041	-0.19	RD
GGJM8R		0.1344	0.0205	0.82	0.1338	0.0107	0.48	IS
GMRT2C		0.0950	-0.0189	-0.75	0.1022	-0.0209	-0.94	TH
GQ9DMR		0.1590	0.0451	1.80	0.1662	0.0431	1.94	MI
JPLQ4Z		0.1066	-0.0073	-0.29	0.1180	-0.0051	-0.23	MI
KKP9EM		0.0907	-0.0232	-0.93	0.1119	-0.0112	-0.51	TM
KQZF37		0.1100	-0.0039	-0.16	0.1236	0.0005	0.02	TH
M2QYF3	X	0.0400	-0.0739	-2.95	0.0150	-0.1081	-4.87	IG
M7KU9A		0.1040	-0.0099	-0.39	0.1136	-0.0095	-0.43	RD
MGNV2L		0.1200	0.0061	0.24	0.1380	0.0149	0.67	SA
NHQBMH		0.1050	-0.0089	-0.36	0.1106	-0.0125	-0.56	TH
QG93CL		0.0996	-0.0143	-0.57	0.1052	-0.0179	-0.81	MI
R438TJ		0.1110	-0.0029	-0.12	0.1260	0.0029	0.13	TN
WRBGTM		0.1180	0.0041	0.16	0.1220	-0.0011	-0.05	TL
YFLF34		0.0784	-0.0355	-1.42	0.0836	-0.0395	-1.78	TN

Summary Statistics			
Grand Means	0.11391	COF	0.12312
			COF
Stnd Dev Btwn Labs	0.02509	COF	0.02220
			COF
Statistics based on 19 of 20 reporting participants			

Sample P27: LDPE & Sample P28: LDPE

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

M2QYF3 (X) - Data for both samples are low. Also inconsistent in testing within Sample P27.

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

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

(IG) - Instron

(MI) - MTS Insight

(SA) - Shimadzu Autograph

(TL) - TMI #32-90

(TN) - TMI #32-06

(IS) - Instron 5000 Series

(RD) - RDM CF

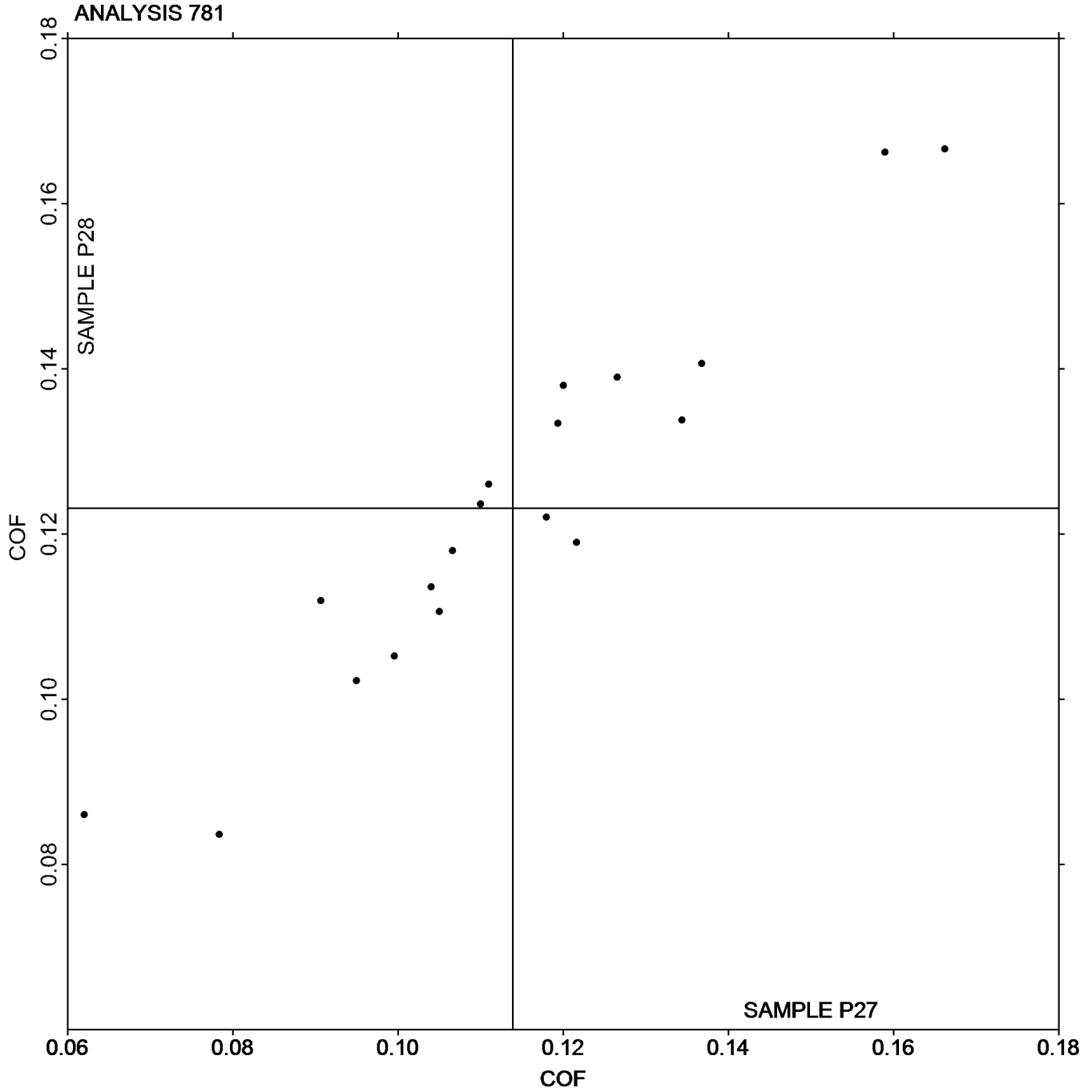
(TH) - Thwing Albert Friction/Peel Tester Model 225-1

(TM) - TMI Slip and Friction Tester

(TY) - Toyoseiki

Plastics Interlaboratory Testing Program  
Analysis 781  
Coefficient of Kinetic Friction

Grand Mean Sample P27: 0.11391 COF      Grand Mean Sample P28: 0.12312 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 Q27			Sample Q28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
AQRUZ8		356.2	18.9	0.56	403.7	15.5	0.35	TA
EFBM4T		310.8	-26.6	-0.78	429.7	41.4	0.93	TM
GGJM8R		352.2	14.9	0.44	384.3	-3.9	-0.09	TE
GQ9DMR		319.3	-18.0	-0.53	401.0	12.8	0.29	TA
JDRAEY		395.6	58.3	1.72	457.9	69.7	1.57	TN
JPLQ4Z		342.1	4.8	0.14	325.2	-63.0	-1.42	TE
KKP9EM		300.6	-36.7	-1.08	427.8	39.6	0.89	TE
MGNV2L		306.7	-30.6	-0.90	332.8	-55.4	-1.25	LO
NHQBMH		282.2	-55.1	-1.63	327.3	-60.9	-1.37	TE
QG93CL		351.2	13.9	0.41	383.7	-4.5	-0.10	TE
R438TJ		290.0	-47.3	-1.40	330.6	-57.6	-1.30	TM
WL8763		366.9	29.6	0.87	384.5	-3.7	-0.08	SZ
WRBGTM		346.5	9.2	0.27	399.1	10.9	0.25	TM
ZU68UJ		381.2	43.9	1.29	378.0	-10.2	-0.23	TA
ZWDGQM		358.3	21.0	0.62	457.4	69.2	1.56	TE

**Summary Statistics**

## Grand Means

337.32 grams-force

388.20 grams-force

## Std Dev Btwn Labs

33.92 grams-force

44.46 grams-force

Statistics based on 15 of 15 reporting participants

Sample Q27: LDPE &amp; Sample Q28: LDPE

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

(LO) - Lorentzen &amp; Wettre Model II

(SZ) - Textest FX 3700

(TA) - Thwing-Albert

(TE) - Thwing-Albert Pro Tear

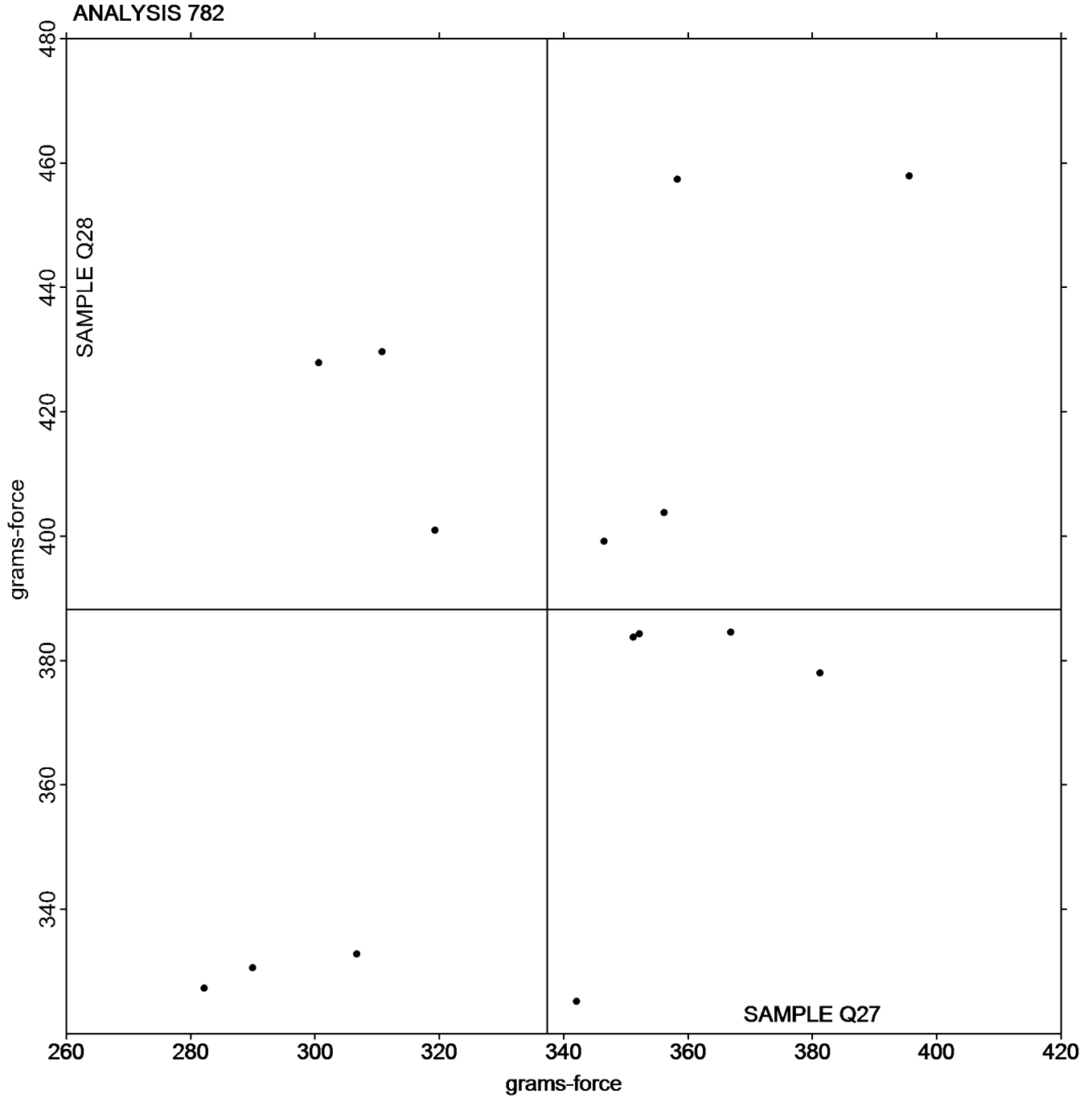
(TM) - TMI No. 83-1100

(TN) - TMI Tear Tester 83-10

Plastics Interlaboratory Testing Program  
Analysis 782  
Tear Resistance of Films

Grand Mean Sample Q27: 337.32 grams-force

Grand Mean Sample Q28: 388.20 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 D27			Sample D28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2DVPGP	*	22.600	3.692	2.66	22.625	3.673	2.73	DA
34J3MF		17.301	-1.607	-1.16	17.186	-1.766	-1.31	XR
69BU9G		17.614	-1.294	-0.93	17.610	-1.342	-1.00	XR
6FPXWV		16.675	-2.233	-1.61	16.713	-2.240	-1.66	HL
7M6RJQ		18.925	0.017	0.01	18.925	-0.027	-0.02	BJ
8J3E6Q		19.400	0.492	0.35	19.038	0.085	0.06	BJ
8J4CFL		17.160	-1.748	-1.26	17.659	-1.293	-0.96	BH
8WBX4K		18.638	-0.271	-0.19	18.488	-0.465	-0.34	BJ
AQRUZ8		19.450	0.542	0.39	19.488	0.535	0.40	BJ
AQW7N4		18.563	-0.346	-0.25	18.388	-0.565	-0.42	BH
GGJM8R		15.796	-3.112	-2.24	15.915	-3.037	-2.25	BT
GQ9DMR		18.438	-0.471	-0.34	18.875	-0.077	-0.06	XX
GR4YEX		19.100	0.192	0.14	19.488	0.535	0.40	BJ
J2JGYF		18.788	-0.121	-0.09	18.825	-0.127	-0.09	BJ
J2YTMD		18.650	-0.258	-0.19	18.688	-0.265	-0.20	BJ
JKTME3		19.703	0.794	0.57	19.755	0.803	0.60	MA
JPLQ4Z		20.075	1.167	0.84	20.150	1.198	0.89	BJ
KKP9EM		19.638	0.729	0.52	19.513	0.560	0.42	BJ
KKQCYQ	X	19.888	0.979	0.70	21.113	2.160	1.60	BJ
NHQBMH		19.325	0.417	0.30	19.288	0.335	0.25	BJ
PT4NBD		19.318	0.409	0.29	19.270	0.318	0.24	BJ
R438TJ		20.675	1.767	1.27	20.825	1.873	1.39	BJ
RKM33K		19.988	1.079	0.78	19.638	0.685	0.51	BJ
T89EEF		16.009	-2.899	-2.09	16.436	-2.516	-1.87	XR
WL8763		19.225	0.317	0.23	19.788	0.835	0.62	BJ
WRBGTM		19.200	0.292	0.21	19.138	0.185	0.14	BJ
XJC4GQ		19.250	0.342	0.25	18.913	-0.040	-0.03	BJ
ZBEV8J		19.675	0.767	0.55	19.613	0.660	0.49	BJ
ZR2JBM		19.436	0.528	0.38	19.421	0.469	0.35	BJ
ZU68UJ		19.725	0.817	0.59	19.963	1.010	0.75	BJ

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

Summary Statistics			
Grand Means	18.9081	Percent	18.9522
			Percent
Stnd Dev Btwn Labs	1.3897	Percent	1.3477
			Percent
Statistics based on 29 of 30 reporting participants			

Sample D27: LDPE & Sample D28: LDPE

**Comments on assigned Data Flags for Test #785**

KKQCYQ (X) - Inconsistent in testing between samples.

**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) - Dacolor SF 600 Series

(HL) - Hunterlab Ultrascan

(MA) - Macbeth 7000A

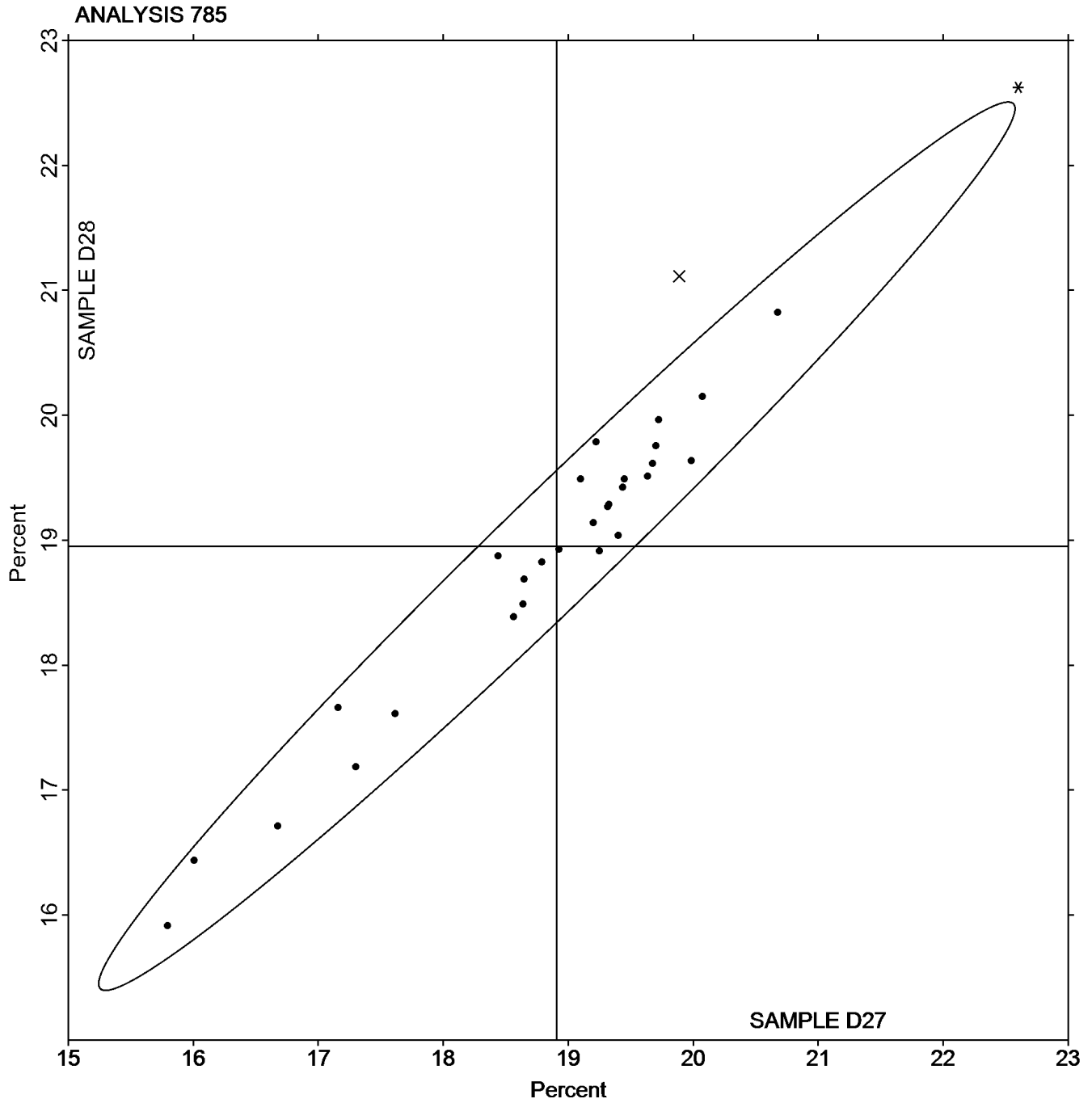
(XR) - X-Rite Spectrocolorimeter (any model)

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

Plastics Interlaboratory Testing Program  
Analysis 785  
Percent Haze of Film

Grand Mean Sample D27: 18.908 Percent

Grand Mean Sample D28: 18.952 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 D27			Sample D28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2DVPGP		91.25	-1.13	-0.77	91.17	-1.21	-0.84	DA
34J3MF		91.93	-0.44	-0.31	91.89	-0.50	-0.34	XR
69BU9G		92.03	-0.34	-0.24	92.00	-0.38	-0.26	XR
6FPXWV		90.35	-2.02	-1.39	90.36	-2.02	-1.40	HL
8J3E6Q		92.29	-0.08	-0.06	92.49	0.11	0.07	BJ
8J4CFL		92.10	-0.27	-0.19	92.10	-0.28	-0.20	BH
8WBX4K		93.44	1.07	0.73	93.36	0.98	0.68	BJ
AQRUZ8		92.34	-0.03	-0.02	92.21	-0.17	-0.12	BJ
AQW7N4		91.85	-0.52	-0.36	91.86	-0.52	-0.36	BH
GGJM8R	*	87.89	-4.48	-3.09	87.98	-4.41	-3.06	BT
GR4YEX		93.75	1.38	0.95	93.69	1.31	0.91	BJ
J2JGYF		93.16	0.79	0.54	93.21	0.83	0.58	BJ
J2YTMD		92.76	0.39	0.27	92.84	0.46	0.32	BJ
JKTME3		91.08	-1.29	-0.89	91.07	-1.31	-0.91	MA
JPLQ4Z		93.55	1.18	0.81	93.60	1.22	0.85	BJ
KKP9EM		92.34	-0.03	-0.02	92.31	-0.07	-0.05	BJ
KKQCYQ		89.85	-2.52	-1.74	89.88	-2.51	-1.74	BJ
NHQBMH		95.05	2.68	1.84	95.06	2.68	1.86	BJ
PT4NBD		93.27	0.89	0.61	93.31	0.93	0.65	BJ
R438TJ		92.88	0.50	0.35	92.85	0.47	0.33	BJ
RKM33K		93.18	0.80	0.55	93.20	0.82	0.57	BJ
T89EEF		91.71	-0.66	-0.46	91.76	-0.63	-0.44	XR
WL8763		91.68	-0.70	-0.48	91.74	-0.64	-0.45	BJ
WRBGTM		93.43	1.05	0.72	93.34	0.96	0.66	BJ
XJC4GQ		93.24	0.87	0.60	93.28	0.89	0.62	BJ
ZBEV8J		94.29	1.92	1.32	94.16	1.78	1.24	BJ
ZR2JBM		93.83	1.46	1.00	93.92	1.53	1.07	BJ
ZU68UJ		91.94	-0.43	-0.30	92.06	-0.32	-0.22	BJ

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

**Summary Statistics**

Grand Means

92.372 Percent

92.381 Percent

Std Dev Btwn Labs

1.453 Percent

1.439 Percent

Statistics based on 28 of 28 reporting participants

Sample D27: LDPE &amp; Sample D28: LDPE

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

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

(BJ) - BYK-Gardner Haze-Gard Plus

(BT) - BYK Gardner TCS Plus Spectrophotometer

(DA) - Datacolor SF 600 Series

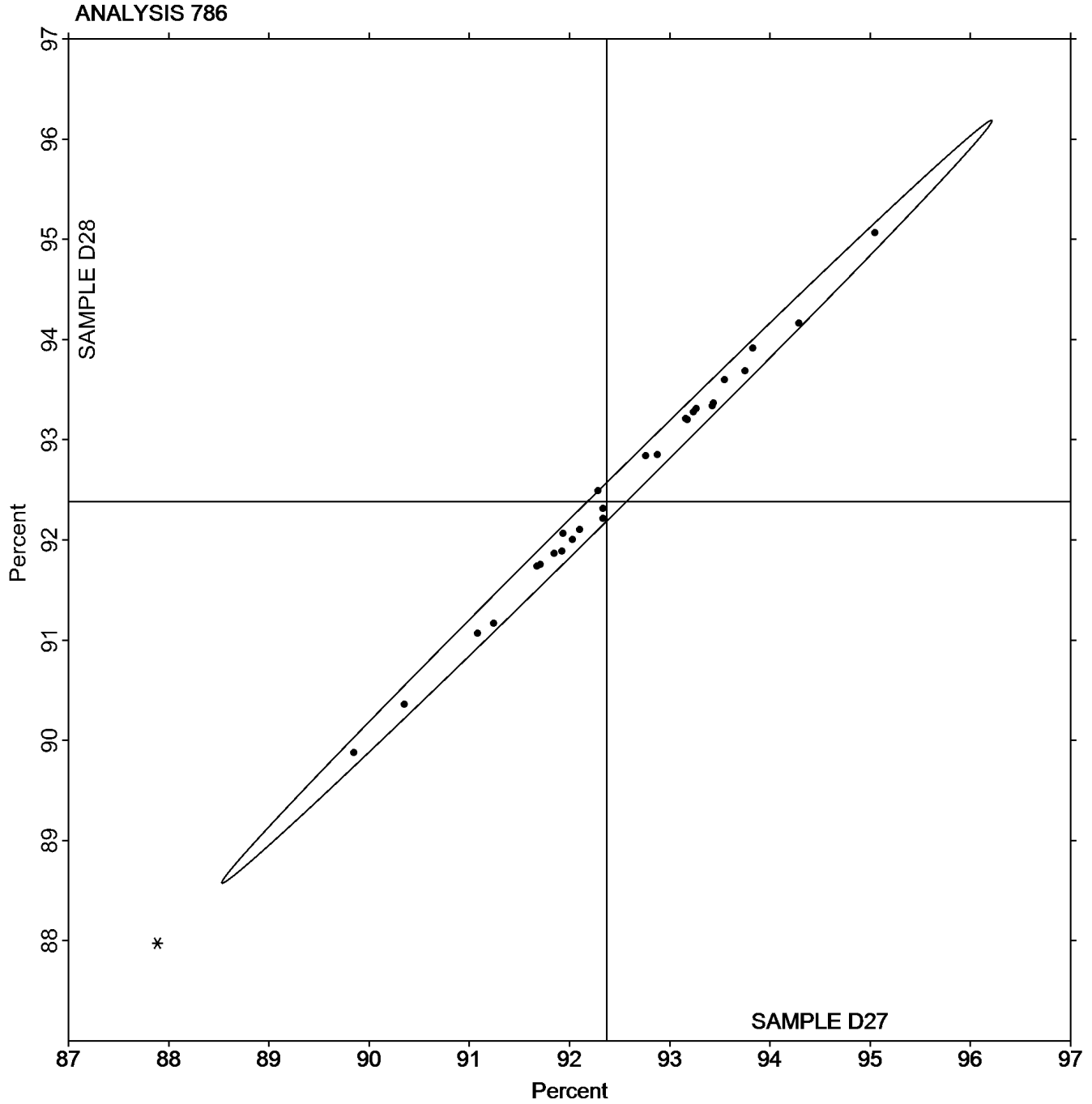
(HL) - Hunterlab Ultrascan XE

(MA) - Macbeth 7000A

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

Plastics Interlaboratory Testing Program  
Analysis 786  
Total Luminous transmittance of film

Grand Mean Sample D27: 92.372 Percent      Grand Mean Sample D28: 92.381 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 Y27			Sample Y28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
28Q4B8		0.17567	0.00085	0.03	0.18633	0.00465	0.17	MD
34898E		0.18633	0.01151	0.46	0.19133	0.00965	0.36	MJ
3UK8TQ		0.16257	-0.01225	-0.49	0.15660	-0.02508	-0.94	MK
6MTLTG	X	0.24333	0.06851	2.72	0.28333	0.10165	3.79	MU
74RDTA		0.13400	-0.04082	-1.62	0.12533	-0.05635	-2.10	MU
7P8TJN		0.17400	-0.00082	-0.03	0.18000	-0.00168	-0.06	MJ
8KCA3B		0.20300	0.02818	1.12	0.21500	0.03332	1.24	CT
8UXMUU		0.16650	-0.00832	-0.33	0.18100	-0.00068	-0.03	SB
ABJPPN	X	0.65933	0.48451	19.21	0.33267	0.15098	5.63	XX
AE4KKU		0.16780	-0.00702	-0.28	0.16270	-0.01898	-0.71	AZ
BGNWW6		0.19800	0.02318	0.92	0.20400	0.02232	0.83	MB
CVEHCV		0.20733	0.03251	1.29	0.21600	0.03432	1.28	XX
E7ABV7		0.18803	0.01321	0.52	0.18360	0.00192	0.07	MU
GGJM8R		0.19336	0.01854	0.74	0.20271	0.02102	0.78	ML
GM88CT		0.17433	-0.00049	-0.02	0.16267	-0.01902	-0.71	AZ
GPEP93		0.18900	0.01418	0.56	0.19800	0.01632	0.61	MR
KE64UY		0.20600	0.03118	1.24	0.22900	0.04732	1.76	SB
KKQCYQ		0.17067	-0.00415	-0.16	0.18667	0.00498	0.19	MK
M8AZRL		0.19500	0.02018	0.80	0.20300	0.02132	0.80	MB
M8DQNV		0.20840	0.03358	1.33	0.22133	0.03965	1.48	MR
NBQTAR		0.18607	0.01125	0.45	0.19757	0.01588	0.59	XX
NPAC82		0.14214	-0.03268	-1.30	0.15260	-0.02909	-1.08	MU
PKCEW2		0.17500	0.00018	0.01	0.19167	0.00998	0.37	AZ
RXBZCV		0.17367	-0.00115	-0.05	0.17300	-0.00868	-0.32	MR
VFGF2T		0.16800	-0.00682	-0.27	0.18267	0.00098	0.04	AZ
VYE2HD		0.18789	0.01307	0.52	0.18091	-0.00078	-0.03	MU
XA6AEK		0.12887	-0.04595	-1.82	0.13900	-0.04268	-1.59	XX
XFY78H		0.14700	-0.02782	-1.10	0.15510	-0.02658	-0.99	XX
YCNQ8P	*	0.10337	-0.07145	-2.83	0.12540	-0.05628	-2.10	MT
YWEXL8		0.18300	0.00818	0.32	0.18400	0.00232	0.09	MK

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

Summary Statistics	
Grand Means	
0.174821 Percent	0.181685 Percent
Stnd Dev Btwn Labs	
0.025219 Percent	0.026811 Percent
Statistics based on 28 of 30 reporting participants	

Sample Y27: ABS &amp; Sample Y28: ABS

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

6MTLTG (X) - Data for both samples are high. Also inconsistent in testing within Sample Y27.

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

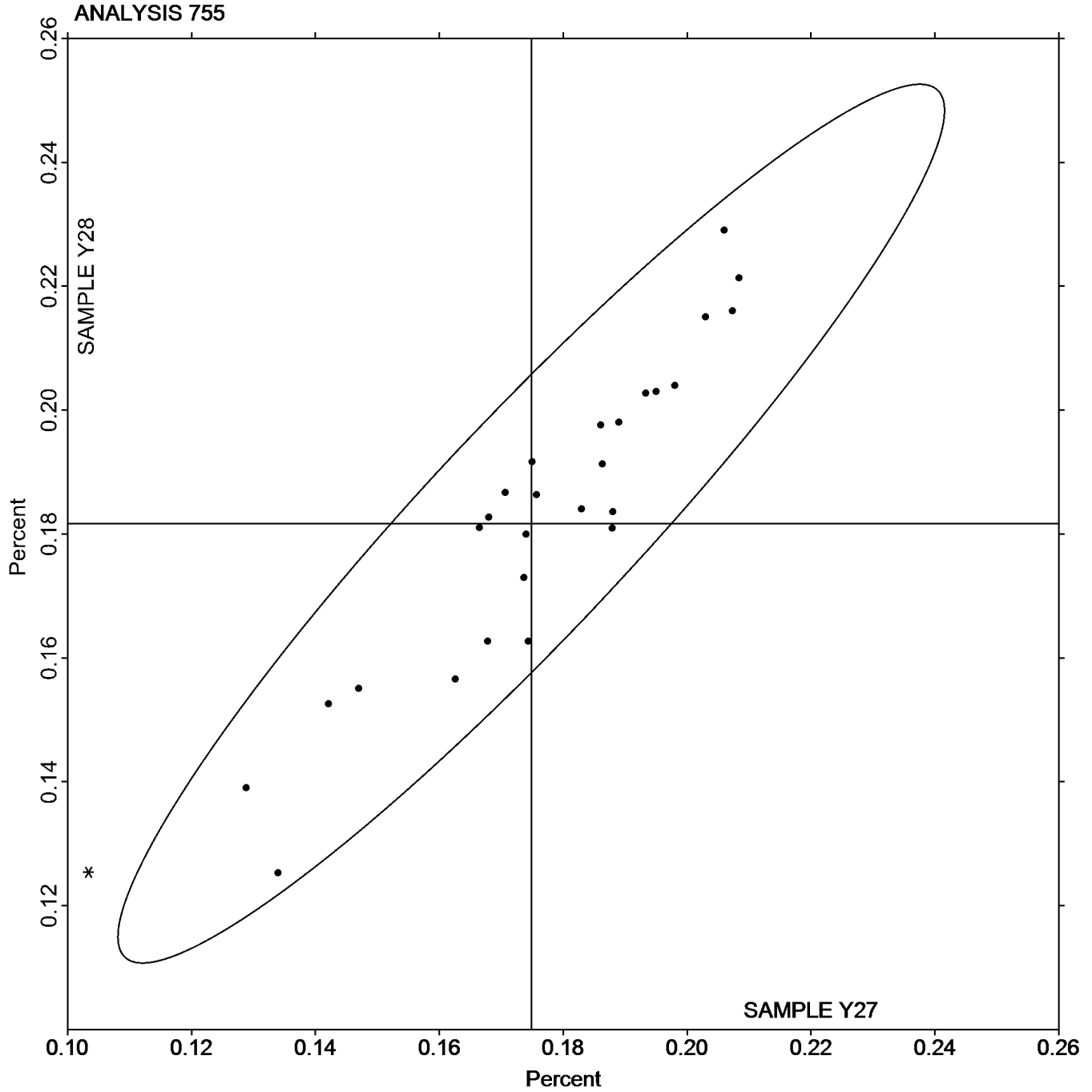
Instrument Code List as Reported by the Labs	
(AZ) - Arizona Instruments Moisture Analyzer	(CT) - Computrac Moisture Analyzer
(MB) - Omnimark Mark 3	(MD) - Mettler Toledo DL37
(MJ) - Mitsubishi KF Analyzer Series	(MK) - Mitsubishi KF Analyzer CA
(ML) - Metrohm Coulometer	(MR) - Metrohm Coulineter 756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



Plastics Interlaboratory Testing Program  
Analysis 755  
Moisture Content of Plastics

Grand Mean Sample Y27: 0.17482 Percent

Grand Mean Sample Y28: 0.18168 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 W27			Sample W28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
28Q4B8		105.13333	-1.48652	-0.42	106.26667	-0.44303	-0.14	PE
3BKFMH		106.96667	0.34682	0.10	106.70000	-0.00970	0.00	TA
6MTLTG		104.62000	-1.99985	-0.57	104.53333	-2.17636	-0.69	MT
6TEUYT		103.29000	-3.32985	-0.95	102.51000	-4.19970	-1.34	TA
6XU8YF		106.18333	-0.43652	-0.12	106.39333	-0.31636	-0.10	TA
7P8TJN		110.45333	3.83348	1.09	110.06667	3.35697	1.07	MT
8VGCCE		107.76667	1.14682	0.33	107.33333	0.62364	0.20	TA
BHW2CE		109.53333	2.91348	0.83	109.06667	2.35697	0.75	TA
FXBXJA		111.90000	5.28015	1.51	111.58000	4.87030	1.55	TA
H7ZF2B		105.34667	-1.27318	-0.36	105.86333	-0.84636	-0.27	TA
JDRAEY		100.83333	-5.78652	-1.65	102.06667	-4.64303	-1.48	PE
KAPP7T		106.20000	-0.41985	-0.12	105.93333	-0.77636	-0.25	PE
KE64UY		104.86667	-1.75318	-0.50	104.33333	-2.37636	-0.76	PE
KLYFHF		107.85333	1.23348	0.35	107.72333	1.01364	0.32	TA
MX9J9W		105.46333	-1.15652	-0.33	105.73667	-0.97303	-0.31	TA
PT9ATE		100.00000	-6.61985	-1.89	101.86667	-4.84303	-1.54	TA
RFWKTF		107.08333	0.46348	0.13	107.17333	0.46364	0.15	PE
RV34AE		110.37667	3.75682	1.07	110.71000	4.00030	1.27	TA
TG397K		108.07667	1.45682	0.42	107.39000	0.68030	0.22	TA
YWEXL8		104.30000	-2.31985	-0.66	105.10000	-1.60970	-0.51	TA
ZMHN8U		115.25667	8.63682	2.47	114.80000	8.09030	2.57	TA
ZU68UJ		104.13333	-2.48652	-0.71	104.46667	-2.24303	-0.71	TA

**Summary Statistics**

## Grand Means

106.619848 Degrees Celsius

106.709697 Degrees Celsius

## Std Dev Btwn Labs

3.502605 Degrees Celsius

3.141977 Degrees Celsius

Statistics based on 22 of 22 reporting participants

Sample W27: PP &amp; Sample W28: PP

**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

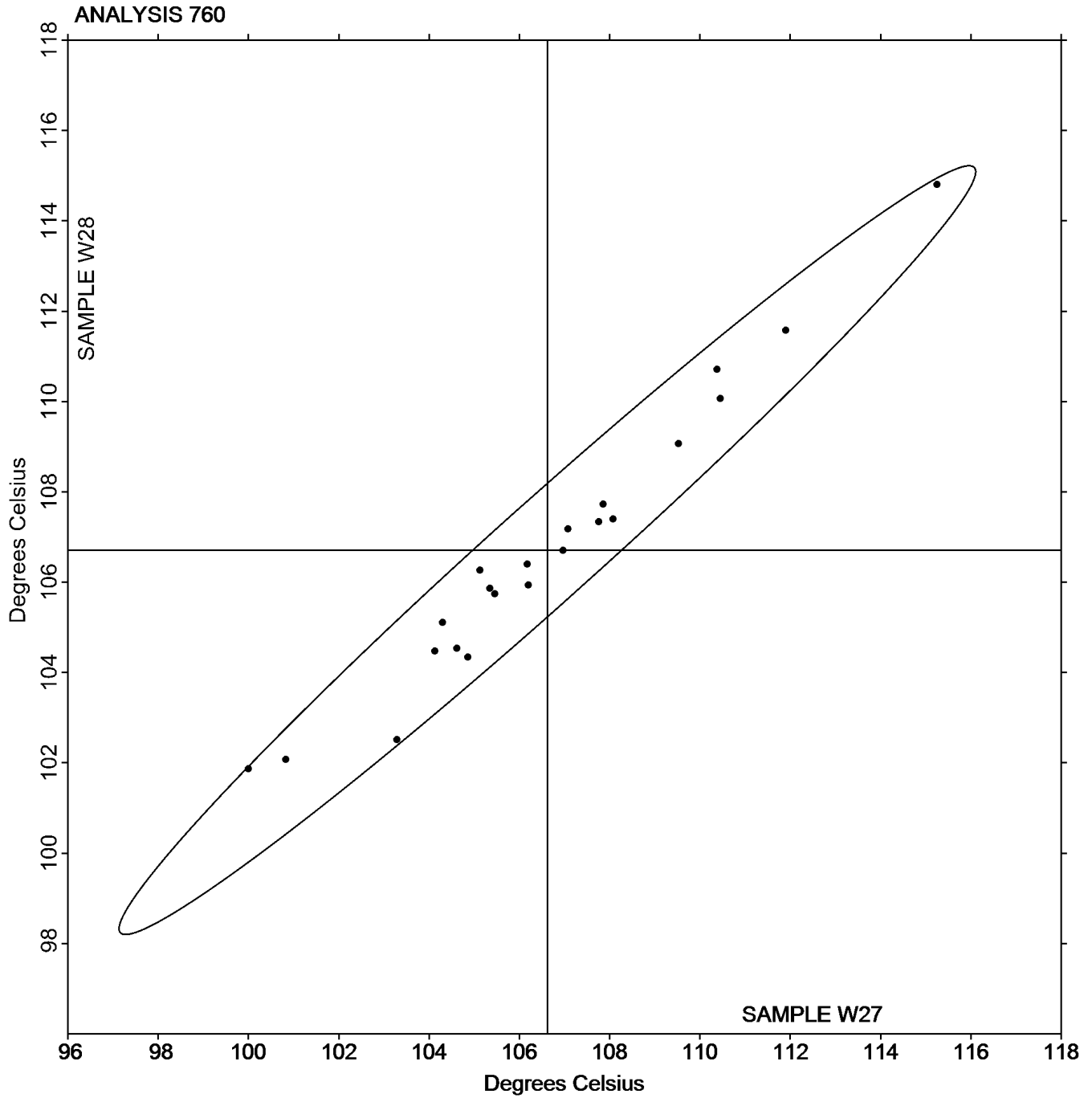
(PE) - Perkins Elmer Instruments

(TA) - TA Instruments

Plastics Interlaboratory Testing Program  
Analysis 760  
DSC Crystallization Temperature

Grand Mean Sample W27: 106.62 Degrees Celsius

Grand Mean Sample W28: 106.71 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 W27			Sample W28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
28Q4B8		167.03333	2.42486	0.87	165.53333	1.05778	0.41	PE
3BKFMH		165.66667	1.05819	0.38	166.53333	2.05778	0.79	TA
3UK8TQ		162.27000	-2.33847	-0.84	161.92333	-2.55222	-0.98	MT
6MTLTG		166.49000	1.88153	0.68	166.89000	2.41444	0.93	MT
6TEUYT		165.80333	1.19486	0.43	166.06667	1.59111	0.61	TA
6XU8YF		164.70333	0.09486	0.03	164.51667	0.04111	0.02	TA
7P8TJN		165.63333	1.02486	0.37	166.44000	1.96444	0.76	XX
8VGCCE		161.90000	-2.70847	-0.97	162.40000	-2.07556	-0.80	TA
BHW2CE		160.63333	-3.97514	-1.43	160.43333	-4.04222	-1.56	TA
FXBXJA		167.94667	3.33819	1.20	167.59333	3.11778	1.20	TA
GM88CT		164.83333	0.22486	0.08	164.70000	0.22444	0.09	TA
GY69RH		166.23333	1.62486	0.58	166.36667	1.89111	0.73	XX
JDRAEY		164.16667	-0.44181	-0.16	163.06667	-1.40889	-0.54	PE
KAPP7T		164.03333	-0.57514	-0.21	163.93333	-0.54222	-0.21	PE
KE64UY		161.70000	-2.90847	-1.05	163.93333	-0.54222	-0.21	PE
KLYFHF		166.24333	1.63486	0.59	164.81667	0.34111	0.13	TA
MGNV2L		164.93333	0.32486	0.12	165.06667	0.59111	0.23	SH
PT9ATE	*	168.53333	3.92486	1.41	164.60000	0.12444	0.05	TA
RFWKTF		162.50000	-2.10847	-0.76	162.46000	-2.01556	-0.78	PE
RV34AE		164.44000	-0.16847	-0.06	164.10333	-0.37222	-0.14	TA
TG397K		164.75667	0.14819	0.05	165.79333	1.31778	0.51	TA
YWEXL8		166.70000	2.09153	0.75	166.66667	2.19111	0.85	TA
ZMHN8U	*	155.81667	-8.79181	-3.16	155.94333	-8.53222	-3.29	TA
ZU68UJ		167.63333	3.02486	1.09	167.63333	3.15778	1.22	TA

**Summary Statistics**

Grand Means

164.608472 Degrees Celsius

164.475556 Degrees Celsius

Std Dev Btwn Labs

2.781549 Degrees Celsius

2.593025 Degrees Celsius

Statistics based on 24 of 24 reporting participants

Sample W27: PP & Sample W28: PP

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

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

(MT) - Mettler Toledo Instruments

(PE) - Perkins Elmer Instruments

(SH) - Shimadzu

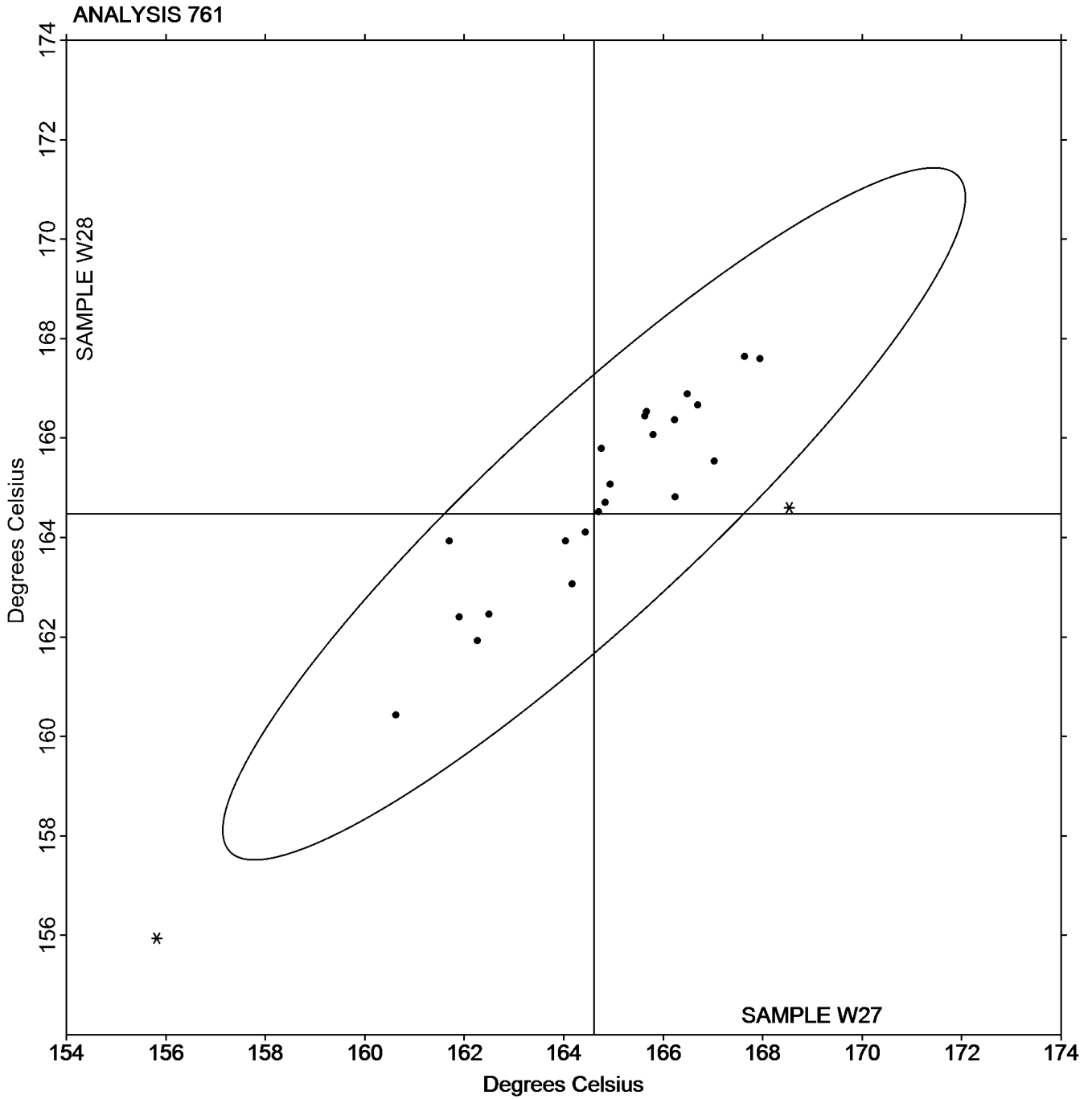
(TA) - TA Instruments

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 761  
DSC Melt Temperature

Grand Mean Sample W27: 164.61 Degrees Celsius

Grand Mean Sample W28: 164.48 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 W27			Sample W28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
28Q4B8		102.75333	4.44917	0.60	99.11000	0.68875	0.09	PE
3BKFMH		95.58333	-2.72083	-0.37	93.87000	-4.55125	-0.56	TA
6TEUYT		100.66667	2.36250	0.32	100.50000	2.07875	0.26	TA
8VGCCE		100.93333	2.62917	0.36	100.62333	2.20208	0.27	TA
BHW2CE		97.00000	-1.30417	-0.18	95.53333	-2.88792	-0.36	TA
FXBXJA		103.43333	5.12917	0.70	111.53333	13.11208	1.62	TA
JDRAEY		97.56000	-0.74417	-0.10	97.47333	-0.94792	-0.12	PE
KAPP7T		95.65000	-2.65417	-0.36	95.97333	-2.44792	-0.30	PE
KE64UY		91.87667	-6.42750	-0.87	93.00667	-5.41458	-0.67	PE
KLYFHF		92.25667	-6.04750	-0.82	93.45333	-4.96792	-0.62	TA
PT9ATE		114.53333	16.22917	2.20	120.76667	22.34542	2.77	TA
RV34AE		95.98000	-2.32417	-0.31	100.91333	2.49208	0.31	TA
TG397K		96.56667	-1.73750	-0.24	93.37667	-5.04458	-0.62	TA
YWEXL8	*	111.01333	12.70917	1.72	98.86333	0.44208	0.05	TA
ZMHN8U		92.95000	-5.35417	-0.73	93.71000	-4.71125	-0.58	TA
ZU68UJ		84.11000	-14.19417	-1.92	86.03333	-12.38792	-1.53	TA

Summary Statistics			
Grand Means	98.304167	Joules Per Gram	98.421250 Joules Per Gram
Std Dev Btwn Labs	7.378597	Joules Per Gram	8.076063 Joules Per Gram
Statistics based on 16 of 16 reporting participants			

Sample W27: PP & Sample W28: PP

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

(PE) - Perkins Elmer Instruments

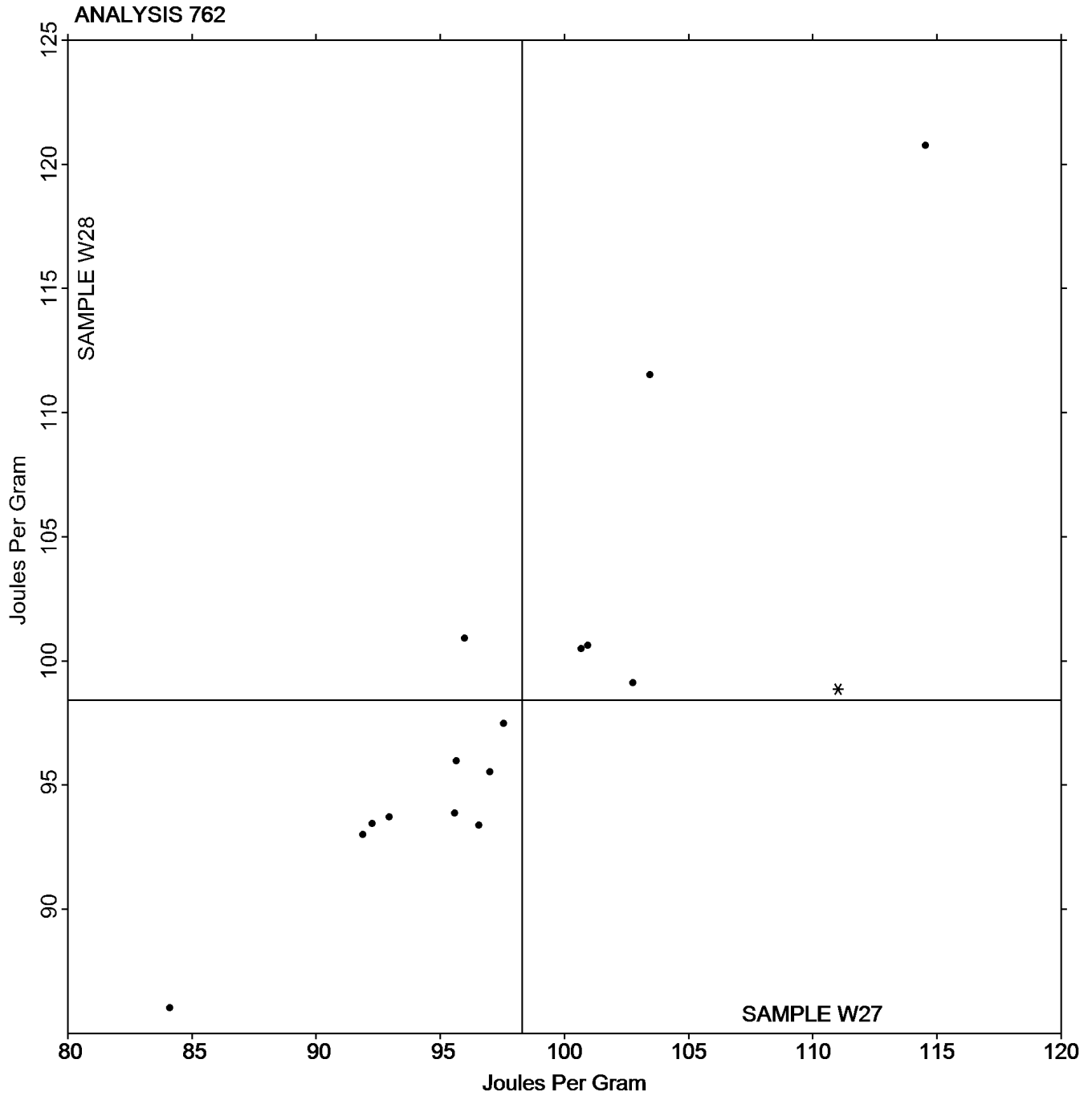
(TA) - TA Instruments



Plastics Interlaboratory Testing Program  
Analysis 762  
DSC Enthalpy of Crystallization

Grand Mean Sample W27: 98.304 Joules Per Gram

Grand Mean Sample W28: 98.421 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 W27			Sample W28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
28Q4B8		93.87000	1.70812	0.21	85.03333	-8.06958	-0.97	PE
3BKFMH		94.63333	2.47146	0.31	93.72000	0.61708	0.07	TA
6TEUYT		103.53333	11.37146	1.42	104.50000	11.39708	1.37	TA
8VGCCE		101.83000	9.66812	1.20	101.97667	8.87375	1.06	TA
BHW2CE		88.30000	-3.86188	-0.48	87.43333	-5.66958	-0.68	TA
FXBXJA		94.40333	2.24146	0.28	99.94000	6.83708	0.82	TA
JDRAEY		89.88333	-2.27854	-0.28	89.61333	-3.48958	-0.42	PE
KAPP7T		102.05667	9.89479	1.23	102.58000	9.47708	1.14	PE
KE64UY		92.15667	-0.00521	0.00	92.28000	-0.82292	-0.10	PE
KLYFHF		80.99333	-11.16854	-1.39	83.39333	-9.70958	-1.16	TA
PT9ATE		94.93333	2.77146	0.35	102.86667	9.76375	1.17	TA
RV34AE		96.17333	4.01146	0.50	101.86667	8.76375	1.05	TA
TG397K		97.66667	5.50479	0.69	95.25333	2.15042	0.26	TA
YWEXL8		87.79333	-4.36854	-0.54	85.97333	-7.12958	-0.86	TA
ZMHN8U		81.50333	-10.65854	-1.33	81.07000	-12.03292	-1.44	TA
ZU68UJ		74.86000	-17.30188	-2.16	82.14667	-10.95625	-1.31	TA

Summary Statistics			
Grand Means	92.161875	Joules Per Gram	93.102917 Joules Per Gram
Std Dev Btwn Labs	8.023718	Joules Per Gram	8.336231 Joules Per Gram
Statistics based on 16 of 16 reporting participants			

Sample W27: PP & Sample W28: PP

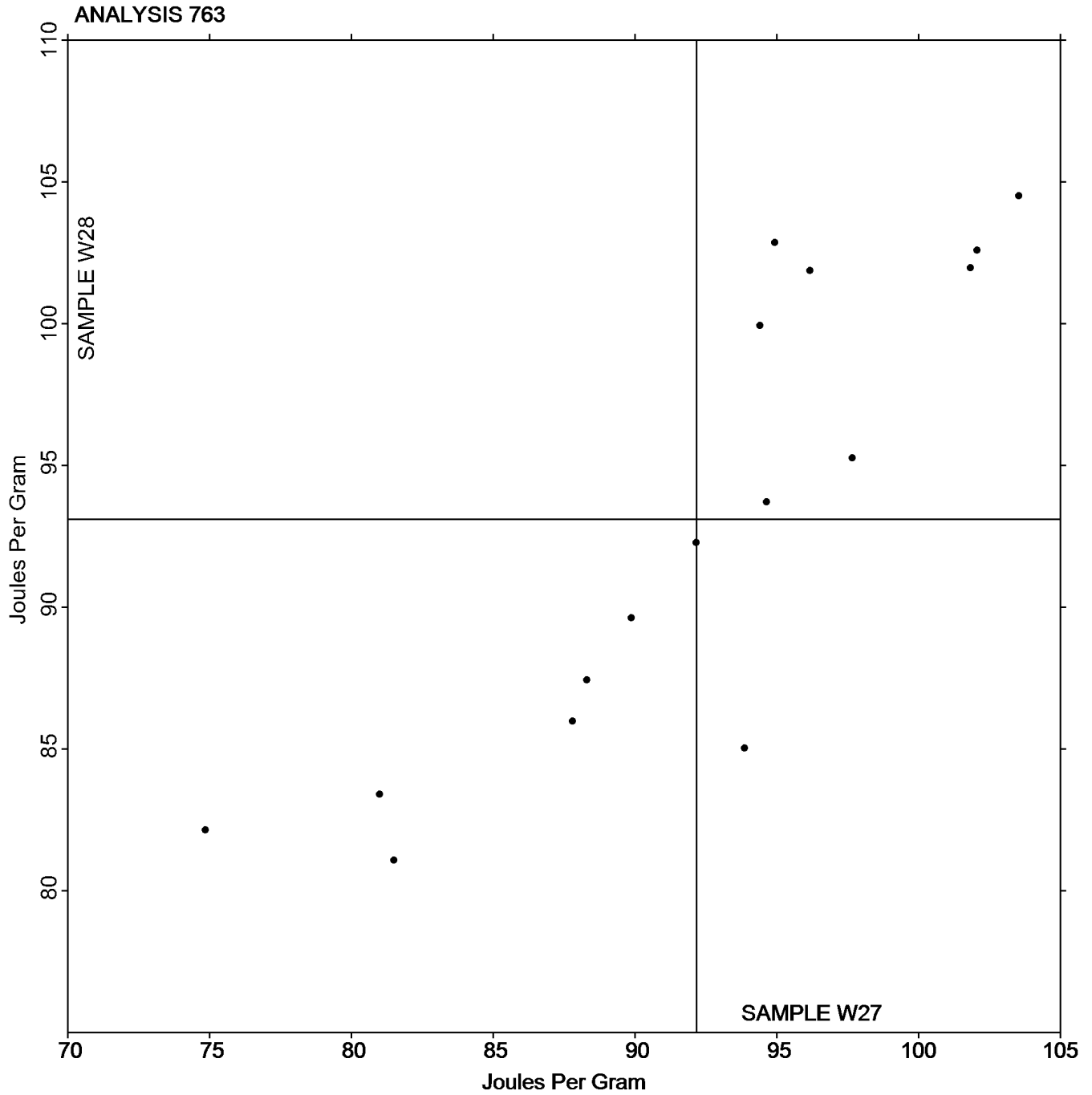
**Instrument Code List as Reported by the Labs**

(PE) - Perkins Elmer Instruments

(TA) - TA Instruments

Plastics Interlaboratory Testing Program  
Analysis 763  
DSC Enthalpy of Fusion

Grand Mean Sample W27: 92.162 Joules Per Gram      Grand Mean Sample W28: 93.103 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 V27			Sample V28			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
28Q4B8		88.96667	1.81289	1.17	90.06667	2.97267	1.90	PE
3BKFMH		85.40000	-1.75378	-1.13	85.36667	-1.72733	-1.10	TA
6MTLTG		89.35333	2.19956	1.42	89.56667	2.47267	1.58	MT
6TEUYT		88.03667	0.88289	0.57	87.74000	0.64600	0.41	TA
8VGCCE	X	74.00000	-13.15378	-8.49	74.33333	-12.76067	-8.14	TA
BHW2CE		86.66667	-0.48711	-0.31	86.10000	-0.99400	-0.63	TA
FXBXJA		84.28333	-2.87044	-1.85	84.40333	-2.69067	-1.72	TA
GM88CT		87.80000	0.64622	0.42	87.93333	0.83933	0.54	TA
JDRAEY		85.73333	-1.42044	-0.92	86.53333	-0.56067	-0.36	PE
KAPP7T		86.96667	-0.18711	-0.12	86.86667	-0.22733	-0.15	PE
KLYFHF		88.50667	1.35289	0.87	88.10000	1.00600	0.64	TA
MGNV2L	X	76.60000	-10.55378	-6.81	75.53333	-11.56067	-7.38	XX
PT9ATE		85.96667	-1.18711	-0.77	86.26667	-0.82733	-0.53	TA
RV34AE		85.50000	-1.65378	-1.07	85.27333	-1.82067	-1.16	TA
TG397K		87.39667	0.24289	0.16	87.70333	0.60933	0.39	TA
YWEXL8		87.43000	0.27622	0.18	88.05667	0.96267	0.61	TA
ZU68UJ	*	89.30000	2.14622	1.38	86.43333	-0.66067	-0.42	TA

**Summary Statistics**

## Grand Means

87.153778 Degrees Celsius

87.094000 Degrees Celsius

## Std Dev Btwn Labs

1.550183 Degrees Celsius

1.567434 Degrees Celsius

Statistics based on 15 of 17 reporting participants

Sample V27: PET &amp; Sample V28: PET

**Comments on assigned Data Flags for Test #764**

8VGCCE (X) - Data for both samples are low.

MGNV2L (X) - Data for both samples are low.

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

(MT) - Mettler Toledo Instruments

(PE) - Perkins Elmer Instruments

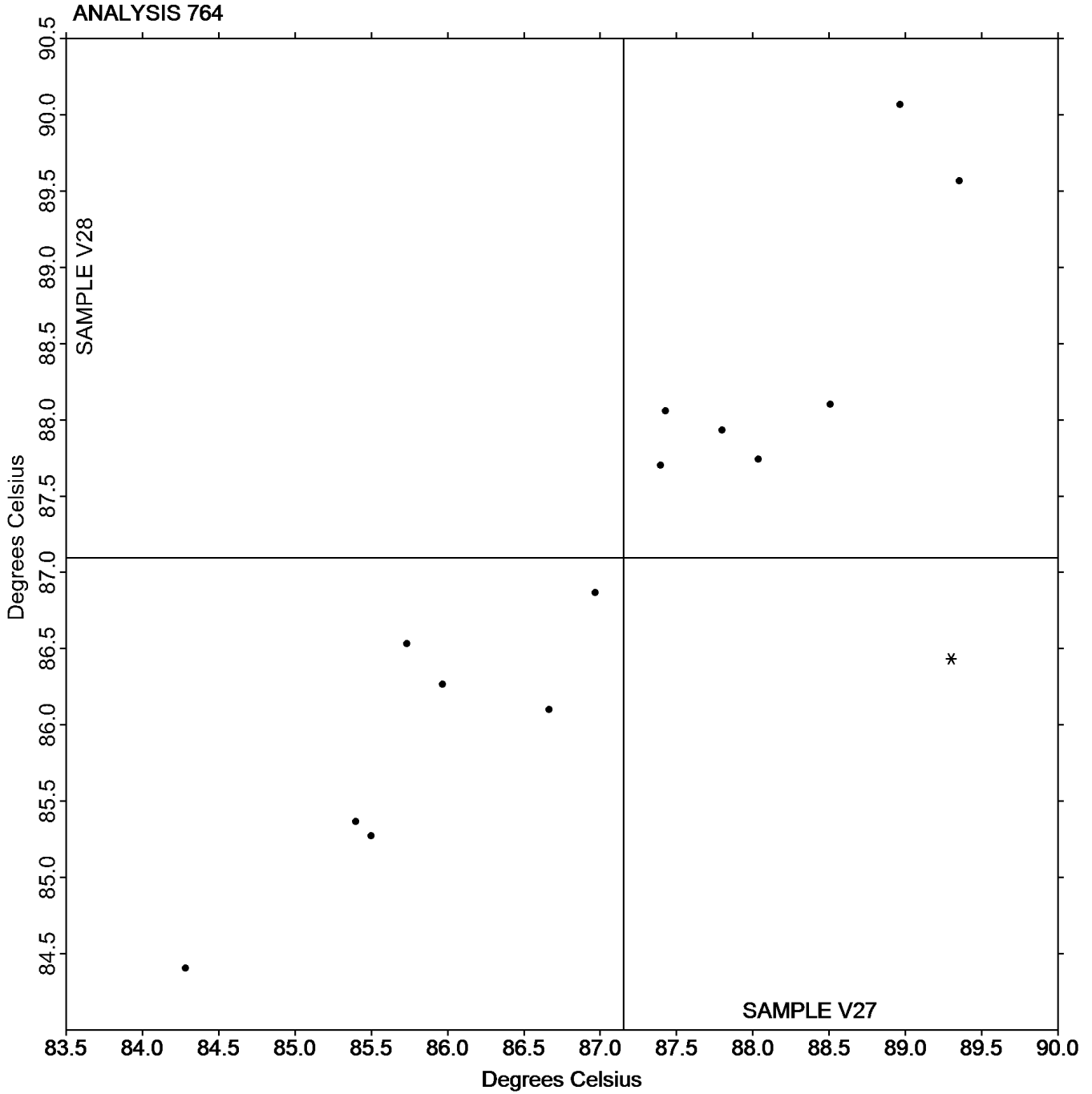
(TA) - TA Instruments

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 764  
DSC Glass Transition Temperature

Grand Mean Sample V27: 87.154 Degrees Celsius

Grand Mean Sample V28: 87.094 Degrees Celsius



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