

Plastics Interlaboratory Testing Program

Web Summary Report #93, 1st Qtr 2015

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705	Tensile Stress at Break, Plastic Samples	755	Moisture Content of Plastics
706	Percent Elongation at Yield, Plastic Samples	757	Ash Content in Thermoplastics
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730	Tensile Stress at Yield, ISO Plastic Samples	771	Tensile Stress at Break, Film Samples
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About CTS and the Plastics Interlaboratory Program

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

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

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

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

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Key for Web Summary Report (Page 1 of 2)

WebCode	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.
Lab Mean	The average of the test results obtained by the participant.
Grand Mean	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.
Difference from Grand Mean	The difference of the LAB MEAN from the GRAND MEAN.
Between-Lab Standard Deviation	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).
Comparative Performance Value	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.
Inst Code	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.
Data Flag	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	CAUTION - 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	STOP - 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	PROCEED - 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.

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.

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 #93

Plastics Interlaboratory Testing Program

Analysis 704 - Tensile Stress at Yield

Material: HIPS	Sample F25	4,184.94	psi	2.75% COV
	Sample F26	4,193.67	psi	2.68% COV

Analysis 705 - Tensile Stress at Break

Material: HIPS	Sample F25	3,473.32	psi	2.82% COV
	Sample F26	3,449.72	psi	2.54% COV

Analysis 706 - Percent Elongation at Yield

Material: HIPS	Sample F25	1.5326	Percent	3.48% COV
	Sample F26	1.5305	Percent	3.54% COV

Analysis 708 - Modulus of Elasticity

Material: HIPS	Sample F25	321.69	ksi	5.20% COV
	Sample F26	320.89	ksi	5.17% COV

Analysis 730 - Tensile Stress at Yield, ISO Method

Material: ABS	Sample C25	49.262	MPa	1.61% COV
	Sample C26	49.122	MPa	1.76% COV

Analysis 731 - Tensile Stress at Break, ISO Method

Material: ABS	Sample C25	35.211	MPa	4.84% COV
	Sample C26	34.943	MPa	4.41% COV

Analysis 732 - Strain at Yield, ISO Method

Material: ABS	Sample C25	2.6207	Percent	2.03% COV
	Sample C26	2.6175	Percent	1.98% COV

Analysis 734 - Modulus of Elasticity, ISO Method

Material: ABS	Sample C25	2,400.27	MPa	3.05% COV
	Sample C26	2,392.77	MPa	3.08% COV

Analysis 720 - Flexural Modulus

Material: HIPS	Sample J25	320.36	ksi	5.89% COV
	Sample J26	320.16	ksi	6.04% COV

Analysis 721 - Flexural Stress at 5% Strain

Material: HIPS	Sample J25	6,248.21	psi	3.59% COV
	Sample J26	6,264.85	psi	3.64% COV

Analysis 722 - Flexural Stress at Yield

Material: HIPS	Sample J25	6,259.34	psi	3.42% COV
	Sample J26	6,274.05	psi	3.49% COV

Analysis 736 - Flexural Modulus

Material: HIPS	Sample K25	2,198.31	MPa	4.08% COV
	Sample K26	2,142.34	MPa	4.07% COV

Analysis 737 - Flexural Stress at 3.5% Strain

Material: HIPS	Sample K25	43.223	MPa	2.30% COV
	Sample K26	42.474	MPa	2.07% COV

Results Summary for Web Summary Report #93

Plastics Interlaboratory Testing Program

Analysis 738 - Flexural Stress at Yield

Material: HIPS	Sample K25	43.453	MPa	2.87% COV
	Sample K26	42.712	MPa	2.65% COV

Analysis 790 - Notched Izod Impact

Material: ABS/PC	Sample S25	9.1330	ft.lbf/in	10.5% COV
	Sample S26	9.1693	ft.lbf/in	11.6% COV

Analysis 792 - Notched Charpy Impact

Material: HIPS	Sample M25	22.390	kJ/m ²	4.10% COV
	Sample M26	22.372	kJ/m ²	4.07% COV

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

Material: HIPS	Sample E25	79.363	Degrees C	0.922% COV
	Sample E26	79.409	Degrees C	1.06% COV

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

Material: PP	Sample G25	81.226	Degrees C	2.24% COV
	Sample G26	80.914	Degrees C	2.17% COV

Analysis 712 - Temperature of Deflection (1.80 MPa)

Material: ABS/PC	Sample N25	78.119	Degrees C	1.65% COV
	Sample N26	77.941	Degrees C	1.75% COV

Analysis 715 - Vicat Temperature (Rate A)

Material: ABS	Sample H25	105.44	Degrees C	0.839% COV
	Sample H26	105.42	Degrees C	0.786% COV

Analysis 716 - Vicat Temperature (Rate B)

Material: ABS	Sample R25	107.01	Degrees C	1.15% COV
	Sample R26	106.95	Degrees C	1.09% COV

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

Material: LDPE	Sample X25	5.3835	grams/10 mins	4.26% COV
	Sample X26	5.4017	grams/10 mins	4.67% COV

Analysis 718 - Specific Gravity

Material: HIPS	Sample T25	1.0332	sp gr 23/23 C	0.160% COV
	Sample T26	1.0332	sp gr 23/23 C	0.162% COV

Analysis 757 - Ash Content

Material: PBT	Sample L25	15.150	Percent	0.527% COV
	Sample L26	15.146	Percent	0.347% COV

Analysis 770 - Tensile Stress at Yield, Films

Material: LDPE	Sample B25	1,610.80	psi	7.34% COV
	Sample B26	1,596.61	psi	7.07% COV

Analysis 771 - Tensile Stress at Break, Films

Material: LDPE	Sample B25	2,988.72	psi	8.28% COV
	Sample B26	3,083.13	psi	6.58% COV

Results Summary for Web Summary Report #93

Plastics Interlaboratory Testing Program

Analysis 772 - Elongation at Yield, Films

Material: LDPE	Sample B25	29.210	Percent	62.4% COV
	Sample B26	28.030	Percent	56.8% COV

Analysis 773 - Elongation at Break, Films

Material: LDPE	Sample B25	745.83	Percent	23.8% COV
	Sample B26	776.61	Percent	21.9% COV

Analysis 774 - Thickness of Film Specimens

Material: LDPE	Sample B25	4.0276	mils	3.74% COV
	Sample B26	3.9784	mils	3.32% COV

Analysis 775 - Secant Modulus at 1% Strain

Material: LDPE	Sample B25	30,978.97	psi	6.69% COV
	Sample B26	31,074.43	psi	6.28% COV

Analysis 776 - Secant Modulus at 2% Strain

Material: LDPE	Sample B25	26,694.50	psi	6.55% COV
	Sample B26	26,682.93	psi	4.97% COV

Analysis 780 - Static Friction

Material: LDPE	Sample P25	0.13188	COF	19.7% COV
	Sample P26	0.13121	COF	16.1% COV

Analysis 781 - Kinetic Friction

Material: LDPE	Sample P25	0.09535	COF	13.6% COV
	Sample P26	0.09569	COF	12.5% COV

Analysis 782 - Tear Resistance of Film

Material: LDPE	Sample Q25	448.19	grams-force	12.9% COV
	Sample Q26	418.33	grams-force	14.7% COV

Analysis 785 - Percent Haze

Material: LDPE	Sample D25	16.178	Percent	5.55% COV
	Sample D26	15.002	Percent	5.08% COV

Analysis 786 - Total Transmittance

Material: LDPE	Sample D25	92.158	Percent	1.17% COV
	Sample D26	91.961	Percent	1.15% COV

Analysis 755 - Moisture Content

Material: ABS/PC	Sample Y25	0.08126	Percent	31.5% COV
	Sample Y26	0.08066	Percent	35.6% COV

Analysis 760 - DSC

Material: PBT	Sample W25	189.63	Degrees Celsius	1.60% COV
	Sample W26	189.54	Degrees Celsius	1.62% COV

Analysis 761 - DSC

Material: PBT	Sample W25	223.60	Degrees Celsius	0.678% COV
	Sample W26	223.79	Degrees Celsius	0.723% COV

Results Summary for Web Summary Report #93

Plastics Interlaboratory Testing Program

Analysis 762 - DSC

Material: PBT	Sample W25	45.239	Joules Per Gra	14.5% COV
	Sample W26	44.959	Joules Per Gra	14.3% COV

Analysis 763 - DSC

Material: PBT	Sample W25	42.284	Joules Per Gra	21.8% COV
	Sample W26	42.422	Joules Per Gra	21.0% COV

Analysis 764 - DSC

Material: ABS	Sample V25	109.21	Degrees Celsius	2.23% COV
	Sample V26	109.05	Degrees Celsius	2.17% COV

Analysis 791 - Notched Izod Impact

Material: ABS	Sample Z25	25.082	kJ/m ²	5.59% COV
	Sample Z26	24.598	kJ/m ²	5.08% COV

Analysis 704

Tensile Stress at Yield - psi

WebCode	Data Flag	Sample F25			Sample F26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
236JTZ		3,970.8	-214.1	-1.86	3,999.6	-194.1	-1.73
2YPR4T		4,083.8	-101.1	-0.88	4,063.6	-130.1	-1.16
3YKRJJ	*	4,252.6	67.7	0.59	4,125.6	-68.1	-0.61
4JPR6N		4,104.4	-80.5	-0.70	4,133.2	-60.5	-0.54
4WVXYM		4,184.0	-0.9	-0.01	4,298.0	104.3	0.93
66H8WV		4,261.0	76.1	0.66	4,257.3	63.6	0.57
6JZ7UA		4,238.3	53.4	0.46	4,312.6	118.9	1.06
6LNKCR		4,167.4	-17.5	-0.15	4,276.0	82.3	0.73
6RC88X		4,104.0	-80.9	-0.70	4,088.0	-105.7	-0.94
7BLGTG		4,211.4	26.4	0.23	4,227.0	33.3	0.30
7M3463		4,091.8	-93.1	-0.81	4,060.6	-133.1	-1.18
883PD8		4,104.9	-80.0	-0.70	4,176.0	-17.7	-0.16
8A9EDV		4,055.3	-129.6	-1.13	4,101.7	-92.0	-0.82
8HXZJT	*	4,276.0	91.1	0.79	4,149.6	-44.1	-0.39
9UQYUW		4,211.9	27.0	0.23	4,203.2	9.6	0.09
A8X788	X	3,660.4	-524.5	-4.56	3,697.4	-496.3	-4.41
AYZJAG		4,045.9	-139.0	-1.21	4,023.2	-170.5	-1.52
BFLJKC		4,355.6	170.7	1.48	4,288.4	94.7	0.84
CGA8PK	X	3,776.7	-408.2	-3.55	3,786.0	-407.7	-3.63
CQFY3L	X	3,919.8	-265.1	-2.31	3,749.8	-443.9	-3.95
CWLVP8		3,988.6	-196.4	-1.71	3,994.4	-199.3	-1.77
DB27WU		4,375.6	190.7	1.66	4,378.0	184.3	1.64
DDRHP9		4,100.4	-84.5	-0.74	4,144.0	-49.7	-0.44
DKCB6E		4,085.7	-99.2	-0.86	4,088.4	-105.3	-0.94
DL2LZD		4,250.4	65.5	0.57	4,258.8	65.1	0.58
EK6QQA		4,314.6	129.7	1.13	4,389.5	195.8	1.74
EK6TFE		4,157.2	-27.7	-0.24	4,232.8	39.1	0.35
EWJNXY		4,304.2	119.3	1.04	4,309.4	115.7	1.03
F4XQH7		4,296.6	111.7	0.97	4,317.2	123.6	1.10
F7ZRH4		4,110.0	-74.9	-0.65	4,049.0	-144.7	-1.29
GNDQZ7		4,320.8	135.9	1.18	4,332.0	138.3	1.23
GUKJU3		4,375.0	190.0	1.65	4,366.8	173.2	1.54

Plastics Interlaboratory Testing Program

Analysis 704

Tensile Stress at Yield - psi

WebCode	Data Flag	Sample F25			Sample F26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
GV2BCY		4,313.8	128.9	1.12	4,309.0	115.3	1.03
H4NPQP		3,968.8	-216.1	-1.88	3,949.4	-244.3	-2.17
HKUXP4		3,984.4	-200.5	-1.74	4,018.8	-174.9	-1.56
HNFVYF		4,346.6	161.6	1.41	4,390.9	197.3	1.75
L74HTU		4,211.0	26.1	0.23	4,213.4	19.7	0.18
LGFU3H		4,105.8	-79.1	-0.69	4,123.2	-70.5	-0.63
LJ9HMY		3,995.0	-189.9	-1.65	4,096.6	-97.1	-0.86
M8DPWM		4,294.2	109.3	0.95	4,308.4	114.8	1.02
MBC3GR		4,226.2	41.3	0.36	4,239.8	46.1	0.41
NDUHMC		4,031.6	-153.3	-1.33	4,050.0	-143.7	-1.28
NFZ8JU		4,205.6	20.7	0.18	4,240.4	46.7	0.42
PVQAZX		4,142.7	-42.2	-0.37	4,186.1	-7.6	-0.07
PYVXJU		4,120.0	-64.9	-0.56	4,102.8	-90.9	-0.81
QP37CR		4,206.1	21.2	0.18	4,177.1	-16.5	-0.15
QTYQFC		4,368.6	183.6	1.60	4,373.5	179.8	1.60
QV2XCA		4,209.8	24.8	0.22	4,234.8	41.2	0.37
R346VH		4,251.8	66.9	0.58	4,164.0	-29.7	-0.26
R4FUZG		4,237.6	52.7	0.46	4,242.6	48.9	0.44
RMM9BF		3,984.0	-200.9	-1.75	4,034.0	-159.7	-1.42
RRLKBL		4,293.4	108.5	0.94	4,242.2	48.5	0.43
RXBXEY		4,163.8	-21.1	-0.18	4,168.0	-25.6	-0.23
TGHKHE		4,303.4	118.4	1.03	4,277.6	83.9	0.75
UQZLDE		4,181.9	-3.1	-0.03	4,191.2	-2.4	-0.02
UQZN3J		4,157.4	-27.5	-0.24	4,152.2	-41.5	-0.37
W2UNNL		4,222.3	37.4	0.33	4,265.7	72.0	0.64
W6TXXN		4,109.2	-75.7	-0.66	4,133.2	-60.5	-0.54
X3X48X	X	7,078.1	2,893.2	25.16	7,320.8	3,127.2	27.81
XA4RTC		4,271.4	86.5	0.75	4,276.9	83.2	0.74
XYLV68	X	4,084.3	-100.6	-0.88	4,316.4	122.7	1.09
Y2N7K8		4,210.8	25.8	0.22	4,164.9	-28.7	-0.26
YGE9ZC		4,017.4	-167.5	-1.46	4,099.0	-94.7	-0.84
Z46YP8		4,378.6	193.7	1.68	4,377.4	183.7	1.63

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

WebCode	Data Flag	Sample F25			Sample F26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
ZDCR49		4,184.8	-0.1	0.00	4,173.0	-20.7	-0.18
ZH6WWC	X	4,582.8	397.9	3.46	4,228.2	34.5	0.31

Summary Statistics			
Grand Means	4,184.94	psi	4,193.67
Std Dev Btwn Labs	114.97	psi	112.44
Statistics based on 60 of 66 reporting participants			

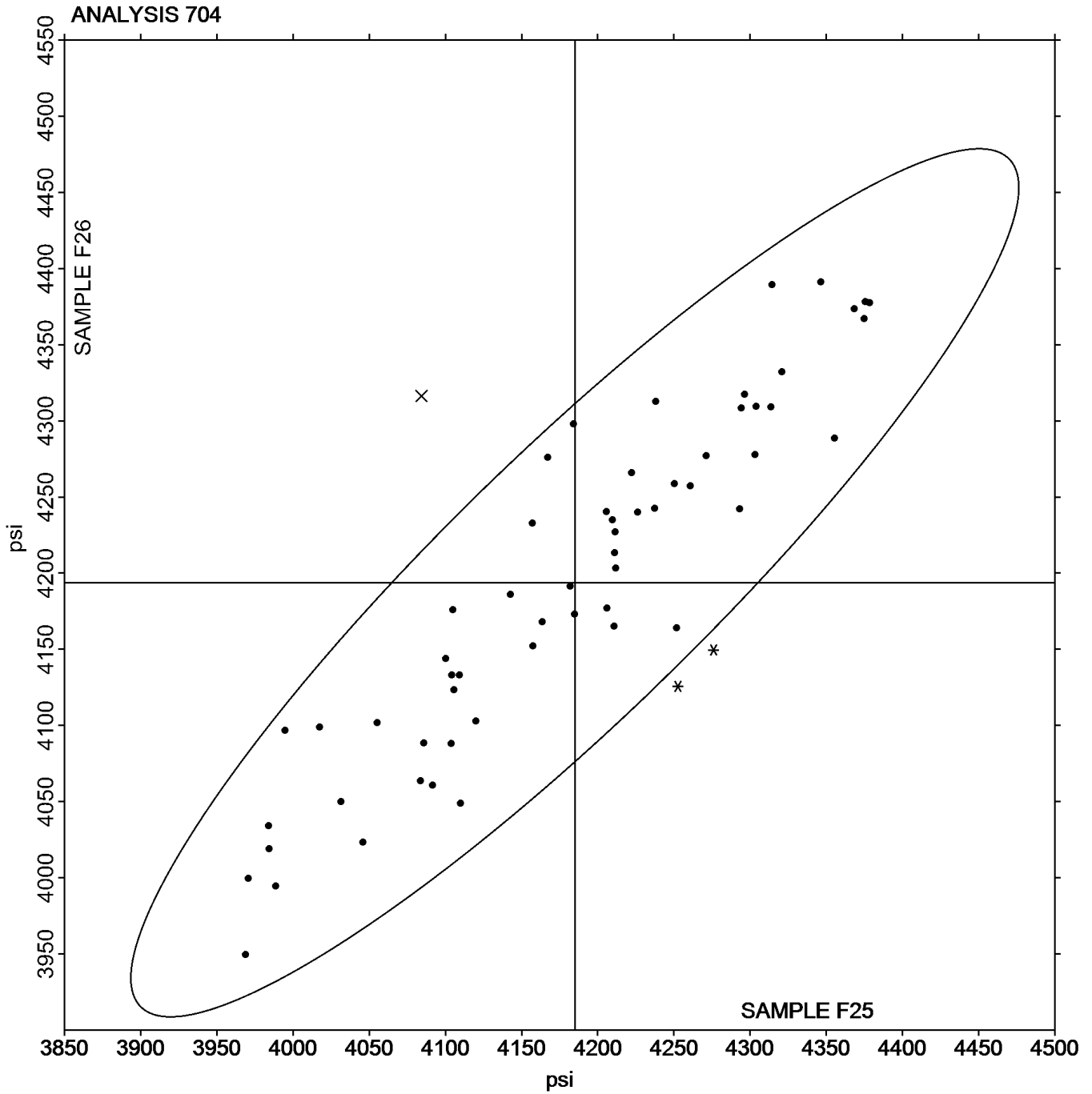
Sample F25: HIPS & Sample F26: HIPS

Comments on assigned Data Flags for Test #704

- A8X788 (X) - Data for both samples are low. Also Inconsistent in testing within both samples.
- CGA8PK (X) - Data for both samples are low. Possible Systematic Error.
- CQFY3L (X) - Inconsistent in testing between samples, data for Sample F26 are low. Also Inconsistent in testing within Sample F26.
- X3X48X (X) - Data for both samples are high. Also Inconsistent in testing within both samples.
- XYLV68 (X) - Inconsistent in testing between samples.
- ZH6WWC (X) - Inconsistent in testing between samples, data for Sample F25 are high. Also Inconsistent in testing within Sample F25.

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

Grand Mean Sample F25: 4,184.94 psi Grand Mean Sample F26: 4,193.67 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 F25			Sample F26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
236JTZ		3,320.0	-153.3	-1.57	3,340.0	-109.7	-1.25
3YKRJJ		3,698.0	224.7	2.29	3,599.8	150.1	1.71
4JPR6N		3,506.8	33.5	0.34	3,406.4	-43.3	-0.49
4WVXYM		3,598.0	124.7	1.27	3,548.0	98.3	1.12
66H8WV		3,462.2	-11.2	-0.11	3,391.0	-58.7	-0.67
6JZ7UA		3,540.1	66.8	0.68	3,542.4	92.7	1.06
6LNKCR	*	3,387.6	-85.7	-0.88	3,514.2	64.5	0.74
7BLGTG		3,402.6	-70.7	-0.72	3,427.9	-21.9	-0.25
7M3463		3,509.0	35.7	0.36	3,379.6	-70.1	-0.80
883PD8		3,410.4	-62.9	-0.64	3,383.5	-66.3	-0.76
8A9EDV		3,405.5	-67.8	-0.69	3,457.7	8.0	0.09
8HXZJT		3,612.3	139.0	1.42	3,553.7	104.0	1.19
9UQYUW		3,449.0	-24.3	-0.25	3,428.7	-21.0	-0.24
A8X788	X	3,329.0	-144.3	-1.47	2,970.8	-478.9	-5.46
ADGENR	X	4,162.0	688.7	7.03	4,216.0	766.3	8.74
AYZJAG		3,388.3	-85.1	-0.87	3,337.0	-112.7	-1.29
BFLJKC		3,552.0	78.7	0.80	3,499.4	49.7	0.57
CGA8PK	X	4,192.0	718.7	7.34	4,205.1	755.4	8.62
CQFY3L	X	3,139.4	-333.9	-3.41	3,133.0	-316.7	-3.61
CWLVP8		3,373.6	-99.7	-1.02	3,350.4	-99.3	-1.13
DB27WU		3,485.0	11.7	0.12	3,405.2	-44.5	-0.51
DDRHP9		3,325.8	-147.5	-1.51	3,414.6	-35.1	-0.40
DKCB6E		3,433.1	-40.2	-0.41	3,432.2	-17.5	-0.20
DL2LZD		3,559.6	86.3	0.88	3,516.0	66.3	0.76
EK6QQA		3,636.7	163.4	1.67	3,644.8	195.1	2.23
EK6TFE		3,459.2	-14.1	-0.14	3,458.6	8.9	0.10
EWJNXY		3,638.4	165.1	1.69	3,586.4	136.7	1.56
F4XQH7		3,493.7	20.4	0.21	3,445.3	-4.5	-0.05
F7ZRH4		3,453.8	-19.5	-0.20	3,405.0	-44.7	-0.51
GNDQZ7		3,511.2	37.9	0.39	3,496.8	47.1	0.54
GUKJU3		3,416.5	-56.8	-0.58	3,425.8	-23.9	-0.27
GV2BCY		3,587.8	114.5	1.17	3,544.0	94.3	1.08

Plastics Interlaboratory Testing Program

Analysis 705

Tensile Stress at Break - psi

WebCode	Data Flag	Sample F25			Sample F26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
H4NPQP	*	3,242.2	-231.1	-2.36	3,195.8	-253.9	-2.90
HKUXP4	X	3,984.4	511.1	5.22	4,018.8	569.1	6.49
HNFVYF		3,589.7	116.4	1.19	3,556.9	107.2	1.22
L74HTU		3,451.8	-21.5	-0.22	3,416.4	-33.3	-0.38
LGFU3H		3,432.4	-40.9	-0.42	3,350.0	-99.7	-1.14
LJ9HMY		3,286.8	-186.5	-1.90	3,356.6	-93.1	-1.06
M8DPWM		3,528.7	55.4	0.57	3,440.8	-8.9	-0.10
MBC3GR		3,497.2	23.9	0.24	3,445.0	-4.7	-0.05
NDUHMC		3,391.0	-82.3	-0.84	3,335.4	-114.3	-1.30
NFZ8JU		3,497.6	24.3	0.25	3,486.0	36.3	0.41
PVQAZX		3,494.3	21.0	0.21	3,480.8	31.1	0.36
PYVXJU		3,458.4	-14.9	-0.15	3,419.8	-29.9	-0.34
QP37CR		3,393.9	-79.4	-0.81	3,422.9	-26.8	-0.31
QTYQFC		3,528.2	54.9	0.56	3,442.4	-7.4	-0.08
QV2XCA		3,582.2	108.9	1.11	3,542.7	93.0	1.06
R346VH		3,357.8	-115.5	-1.18	3,294.8	-154.9	-1.77
R4FUZG		3,508.0	34.7	0.35	3,511.4	61.7	0.70
RRLKBL		3,490.0	16.7	0.17	3,425.8	-23.9	-0.27
RXBXEV		3,338.0	-135.3	-1.38	3,416.1	-33.6	-0.38
TGHKHE		3,633.3	160.0	1.63	3,608.3	158.5	1.81
UQZLDE		3,518.2	44.9	0.46	3,540.6	90.9	1.04
W2UNNL		3,546.5	73.2	0.75	3,562.9	113.2	1.29
W6TXXN		3,334.2	-139.1	-1.42	3,390.0	-59.7	-0.68
X3X48X	X	7,089.2	3,615.9	36.92	7,119.2	3,669.5	41.87
XA4RTC		3,457.4	-15.9	-0.16	3,389.0	-60.7	-0.69
XYLV68	X	3,333.0	-140.3	-1.43	3,495.4	45.7	0.52
Y2N7K8		3,511.7	38.4	0.39	3,420.9	-28.8	-0.33
Z46YP8		3,530.0	56.7	0.58	3,536.0	86.3	0.98
ZDCR49		3,343.4	-129.9	-1.33	3,363.2	-86.5	-0.99
ZH6WWC	X	3,845.3	371.9	3.80	3,418.0	-31.7	-0.36

**Analysis 705
Tensile Stress at Break - psi****Summary Statistics**

Grand Means

3,473.32 psi

3,449.72 psi

Std Dev Btwn Labs

97.94 psi

87.64 psi

Statistics based on 54 of 62 reporting participants

Sample F25: HIPS & Sample F26: HIPS

Comments on assigned Data Flags for Test #705

A8X788 (X) - Inconsistent in testing between samples, data for Sample F26 are low. Also Inconsistent in testing within both samples.

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

CGA8PK (X) - Data for both samples are high.

CQFY3L (X) - Data for both samples are low. Possible Systematic Error.

HKUXP4 (X) - Data for both samples are high.

X3X48X (X) - Extremely high data for all samples.

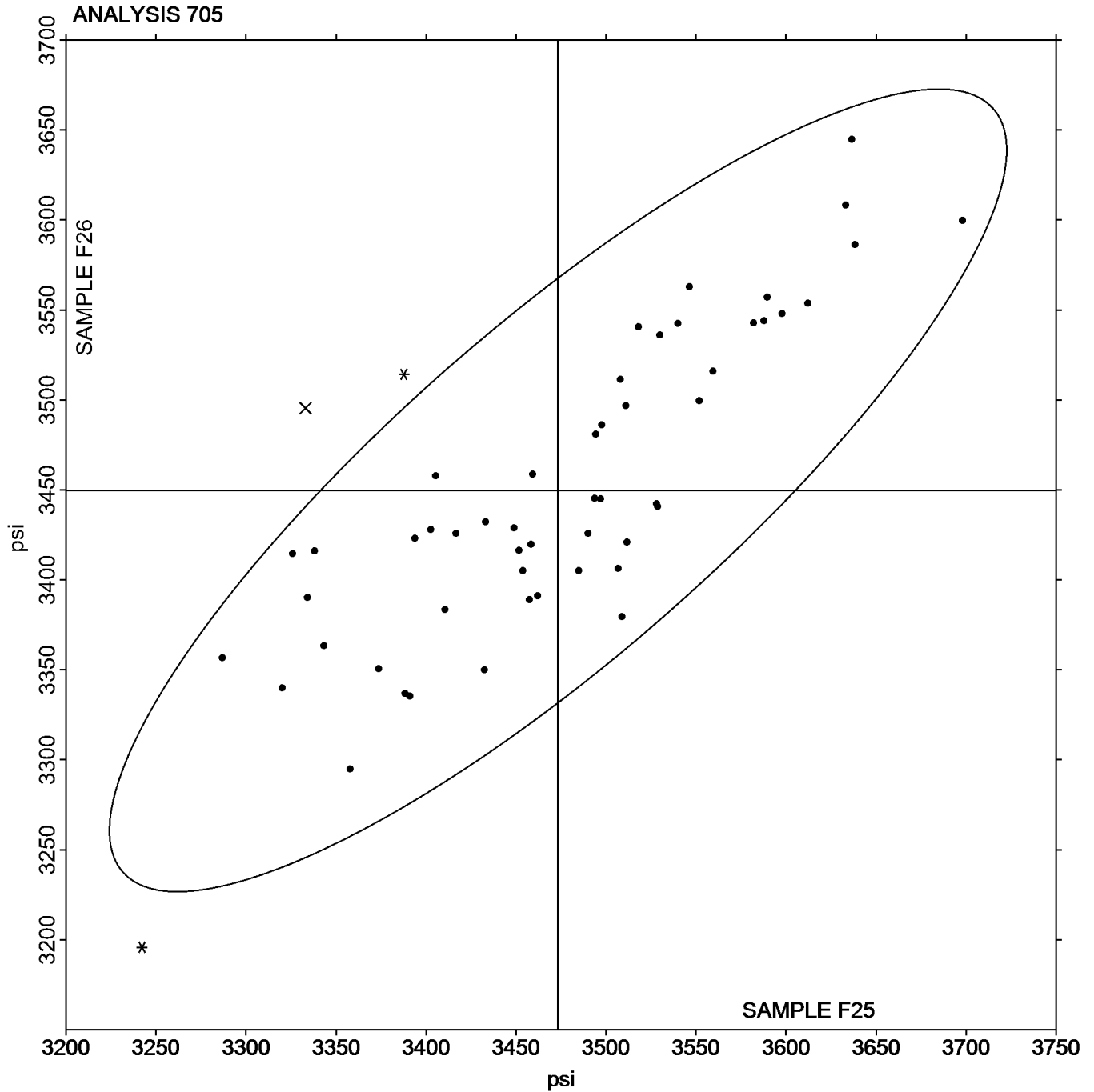
XYLV68 (X) - Inconsistent in testing between samples.

ZH6WWC (X) - Inconsistent in testing between samples, data for Sample F25 are high.

Analysis 705

Tensile Stress at Break - psi

Grand Mean Sample F25: 3,473.32 psi Grand Mean Sample F26: 3,449.72 psi



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

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

WebCode	Data Flag	Sample F25			Sample F26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
236JTZ		1.434	-0.099	-1.85	1.440	-0.090	-1.67
3YKRJJ		1.530	-0.003	-0.05	1.542	0.012	0.21
4JPR6N	X	0.762	-0.771	-14.43	0.794	-0.736	-13.60
4WVXYM		1.500	-0.033	-0.61	1.500	-0.030	-0.56
66H8WV		1.512	-0.020	-0.38	1.511	-0.019	-0.36
6LNKCR		1.480	-0.053	-0.98	1.520	-0.010	-0.19
7BLGTG		1.552	0.019	0.36	1.530	0.000	-0.01
7M3463		1.538	0.005	0.10	1.570	0.040	0.73
883PD8	X	1.166	-0.367	-6.86	1.642	0.112	2.06
8A9EDV		1.402	-0.131	-2.45	1.408	-0.122	-2.26
9UQYUW		1.546	0.013	0.25	1.558	0.028	0.51
AYZJAG		1.538	0.005	0.10	1.529	-0.001	-0.02
BFLJKC		1.600	0.067	1.26	1.550	0.020	0.36
CGA8PK	X	1.672	0.139	2.61	2.162	0.632	11.66
CWLVP8	X	3.628	2.095	39.24	3.744	2.214	40.86
DB27WU		1.574	0.041	0.78	1.548	0.018	0.32
DDRHP9		1.540	0.007	0.14	1.548	0.018	0.32
DL2LZD		1.578	0.045	0.85	1.588	0.058	1.06
EK6QQA		1.576	0.043	0.81	1.578	0.048	0.88
EK6TFE		1.506	-0.027	-0.50	1.560	0.030	0.54
EWJNXY		1.566	0.033	0.63	1.606	0.076	1.39
F4XQH7		1.522	-0.011	-0.20	1.484	-0.046	-0.86
F7ZRH4	*	1.466	-0.067	-1.25	1.396	-0.134	-2.48
GNDQZ7		1.598	0.065	1.23	1.588	0.058	1.06
GUKJU3		1.592	0.059	1.11	1.590	0.060	1.10
GV2BCY		1.598	0.065	1.23	1.622	0.092	1.69
H4NPQP		1.528	-0.005	-0.09	1.516	-0.014	-0.27
HKUXP4		1.458	-0.075	-1.40	1.474	-0.056	-1.04
HNFVYF		1.559	0.027	0.50	1.554	0.024	0.44
L74HTU		1.546	0.013	0.25	1.588	0.058	1.06
LGFU3H	X	2.986	1.453	27.22	3.038	1.508	27.83
LJ9HMY		1.514	-0.019	-0.35	1.474	-0.056	-1.04

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

WebCode	Data Flag	Sample F25			Sample F26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
MBC3GR		1.658	0.125	2.35	1.610	0.080	1.47
NDUHMC	X	4.294	2.761	51.71	4.353	2.822	52.10
NFZ8JU		1.532	-0.001	-0.01	1.520	-0.010	-0.19
PVQAZX	X	2.000	0.467	8.75	2.000	0.470	8.67
PYVXJU	X	1.182	-0.351	-6.56	0.662	-0.868	-16.03
QP37CR		1.518	-0.015	-0.27	1.552	0.022	0.40
QTYQFC		1.614	0.081	1.52	1.554	0.024	0.43
QV2XCA		1.584	0.051	0.96	1.620	0.090	1.65
R346VH		1.534	0.001	0.03	1.514	-0.016	-0.30
R4FUZG		1.528	-0.005	-0.09	1.560	0.030	0.54
RRLKBL		1.554	0.021	0.40	1.508	-0.022	-0.42
RXBXEV		1.577	0.044	0.83	1.547	0.017	0.30
TGHKHE	X	2.536	1.003	18.79	2.174	0.644	11.88
UQZLDE		1.474	-0.059	-1.10	1.478	-0.052	-0.97
W2UNNL		1.410	-0.122	-2.29	1.449	-0.081	-1.50
W6TXXN		1.506	-0.027	-0.50	1.484	-0.046	-0.86
X3X48X	X	4.512	2.979	55.79	4.295	2.764	51.03
XA4RTC		1.558	0.025	0.48	1.576	0.046	0.84
XYLV68	X	1.506	-0.027	-0.50	1.618	0.088	1.62
YGE9ZC		1.513	-0.020	-0.38	1.502	-0.028	-0.53
Z46YP8		1.524	-0.009	-0.16	1.500	-0.030	-0.56
ZDCR49		1.464	-0.069	-1.28	1.464	-0.066	-1.23
ZH6WWC	X	1.780	0.247	4.63	1.590	0.060	1.10

Summary Statistics			
Grand Means	1.5326	Percent	1.5305
			Percent
Std Dev Btwn Labs	0.0534	Percent	0.0542
			Percent
Statistics based on 43 of 55 reporting participants			

Sample F25: HIPS & Sample F26: HIPS

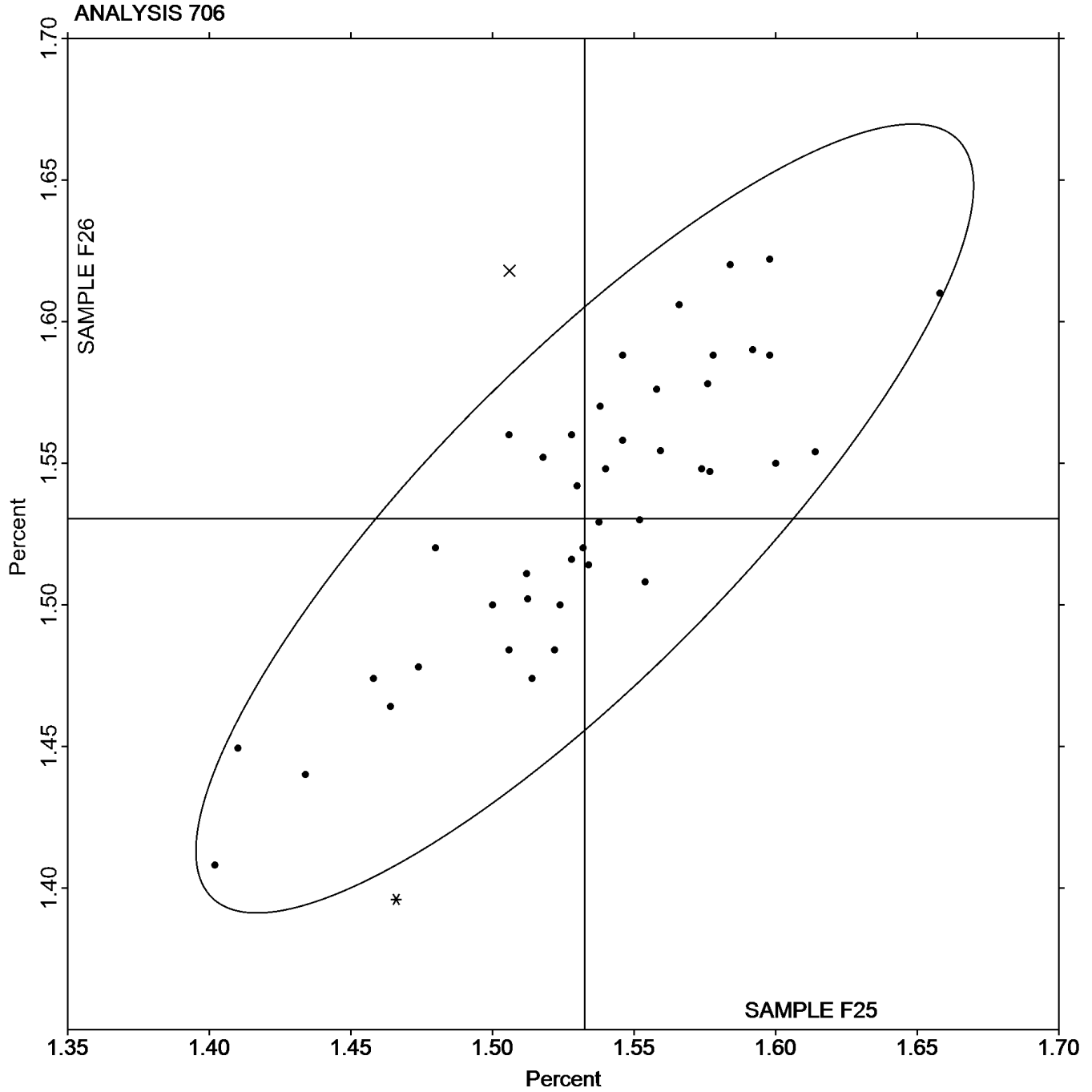
Plastics Interlaboratory Testing Program
Analysis 706
Percent Elongation at Yield - Percent

Comments on assigned Data Flags for Test #706

- 4JPR6N (X) - Data for both samples are low. Also Inconsistent in testing within both samples.
- 883PD8 (X) - Inconsistent in testing between samples, data for Sample F25 are low. Also Inconsistent in testing within both samples.
- CGA8PK (X) - Inconsistent in testing between samples, data for Sample F26 are high. Also Inconsistent in testing within both samples.
- CWLVP8 (X) - Data for both samples are high. Also Inconsistent in testing within Sample F25.
- LGFU3H (X) - Data for both samples are high. Also Inconsistent in testing within Sample F25.
- NDUHMC (X) - Data for both samples are high. Also Inconsistent in testing within Sample F25.
- PVQAZX (X) - Data for both samples are high.
- PYVXJU (X) - Data for both samples are low. Also Inconsistent in testing within both samples.
- TGHKHE (X) - Data for both samples are high. Also Inconsistent in testing within both samples.
- X3X48X (X) - Data for both samples are high. Also Inconsistent in testing within both samples.
- XYLV68 (X) - Inconsistent in testing between samples.
- ZH6WWC (X) - Inconsistent in testing between samples, data for Sample F25 are high.

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

Grand Mean Sample F25: 1.5326 Percent Grand Mean Sample F26: 1.5305 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 F25			Sample F26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
236JTZ		312.00	-9.69	-0.58	311.20	-9.69	-0.58
2YPR4T		323.64	1.95	0.12	320.75	-0.14	-0.01
3YKRJJ		329.14	7.45	0.45	321.76	0.87	0.05
4JPR6N		341.06	19.37	1.16	339.62	18.73	1.13
4WVXYM		316.00	-5.69	-0.34	321.80	0.91	0.05
66H8WV		324.84	3.15	0.19	325.35	4.46	0.27
6LNKCR		299.20	-22.49	-1.34	301.60	-19.29	-1.16
7M3463		322.20	0.51	0.03	322.18	1.29	0.08
883PD8		296.58	-25.11	-1.50	290.75	-30.15	-1.82
8A9EDV		332.40	10.71	0.64	327.73	6.84	0.41
8PXJLN		310.40	-11.28	-0.67	309.34	-11.55	-0.70
9UQYUW		312.76	-8.93	-0.53	309.95	-10.94	-0.66
AYZJAG		312.01	-9.68	-0.58	309.59	-11.30	-0.68
BFLJKC		313.68	-8.01	-0.48	328.08	7.19	0.43
CGA8PK		353.66	31.97	1.91	352.44	31.55	1.90
CWLVP8	X	146.81	-174.88	-10.45	147.30	-173.59	-10.47
DB27WU		313.97	-7.72	-0.46	314.79	-6.10	-0.37
DDRHP9		319.24	-2.45	-0.15	318.08	-2.81	-0.17
DL2LZD		318.38	-3.31	-0.20	319.70	-1.19	-0.07
EK6QQA	*	365.56	43.87	2.62	360.64	39.75	2.40
EK6TFE		326.42	4.73	0.28	325.88	4.99	0.30
EWJNXY		323.80	2.11	0.13	318.20	-2.69	-0.16
F4XQH7		326.74	5.05	0.30	325.44	4.55	0.27
F7ZRH4		285.63	-36.06	-2.16	286.56	-34.33	-2.07
GNDQZ7		308.84	-12.85	-0.77	312.26	-8.63	-0.52
GUKJU3		302.23	-19.46	-1.16	301.10	-19.79	-1.19
GV2BCY		311.50	-10.19	-0.61	308.26	-12.63	-0.76
H4NPQP	*	300.96	-20.73	-1.24	319.54	-1.35	-0.08
HKUXP4		321.60	-0.09	-0.01	321.98	1.09	0.07
HNFVYF		337.90	16.21	0.97	342.27	21.38	1.29
L74HTU		327.52	5.83	0.35	315.10	-5.79	-0.35
LGFU3H	X	166.79	-154.90	-9.26	165.63	-155.26	-9.37

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

WebCode	Data Flag	Sample F25			Sample F26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
LJ9HMY		325.20	3.51	0.21	330.20	9.31	0.56
MBC3GR		323.08	1.39	0.08	317.58	-3.31	-0.20
NFZ8JU		333.46	11.77	0.70	335.24	14.35	0.87
PVQAZX	*	372.62	50.93	3.04	373.21	52.32	3.16
PYVXJU	X	314.00	-7.69	-0.46	275.20	-45.69	-2.76
QP37CR		329.21	7.52	0.45	318.16	-2.73	-0.16
QTYQFC		319.01	-2.68	-0.16	315.72	-5.17	-0.31
QV2XCA		303.89	-17.80	-1.06	297.15	-23.74	-1.43
R346VH		347.84	26.15	1.56	336.13	15.24	0.92
R4FUZG		318.44	-3.25	-0.19	315.90	-4.99	-0.30
RRLKBL		318.16	-3.53	-0.21	316.08	-4.81	-0.29
RXBXEY		316.78	-4.91	-0.29	310.03	-10.86	-0.66
TGHKHE		290.05	-31.64	-1.89	289.86	-31.03	-1.87
UQZLDE		337.06	15.37	0.92	339.96	19.07	1.15
W2UNNL	*	319.27	-2.42	-0.14	337.72	16.83	1.02
W6TXXN		331.77	10.08	0.60	322.32	1.43	0.09
X3X48X	X	310.11	-11.58	-0.69	119.85	-201.04	-12.13
XA4RTC		315.55	-6.14	-0.37	314.85	-6.04	-0.36
XYLV68		311.55	-10.14	-0.61	314.13	-6.76	-0.41
YGE9ZC		332.52	10.83	0.65	336.86	15.97	0.96
Z46YP8	X	356.24	34.55	2.07	387.58	66.69	4.02
ZH6WWC		327.50	5.81	0.35	320.56	-0.33	-0.02

Summary Statistics	
Grand Means	321.690 ksi 320.890 ksi
Std Dev Btwn Labs	16.728 ksi 16.575 ksi
Statistics based on 49 of 54 reporting participants	

Sample F25: HIPS & Sample F26: HIPS

Plastics Interlaboratory Testing Program
Analysis 708
Modulus of Elasticity - ksi

Comments on assigned Data Flags for Test #708

CWLVP8 (X) - Data for both samples are low.

LGFU3H (X) - Data for both samples are low.

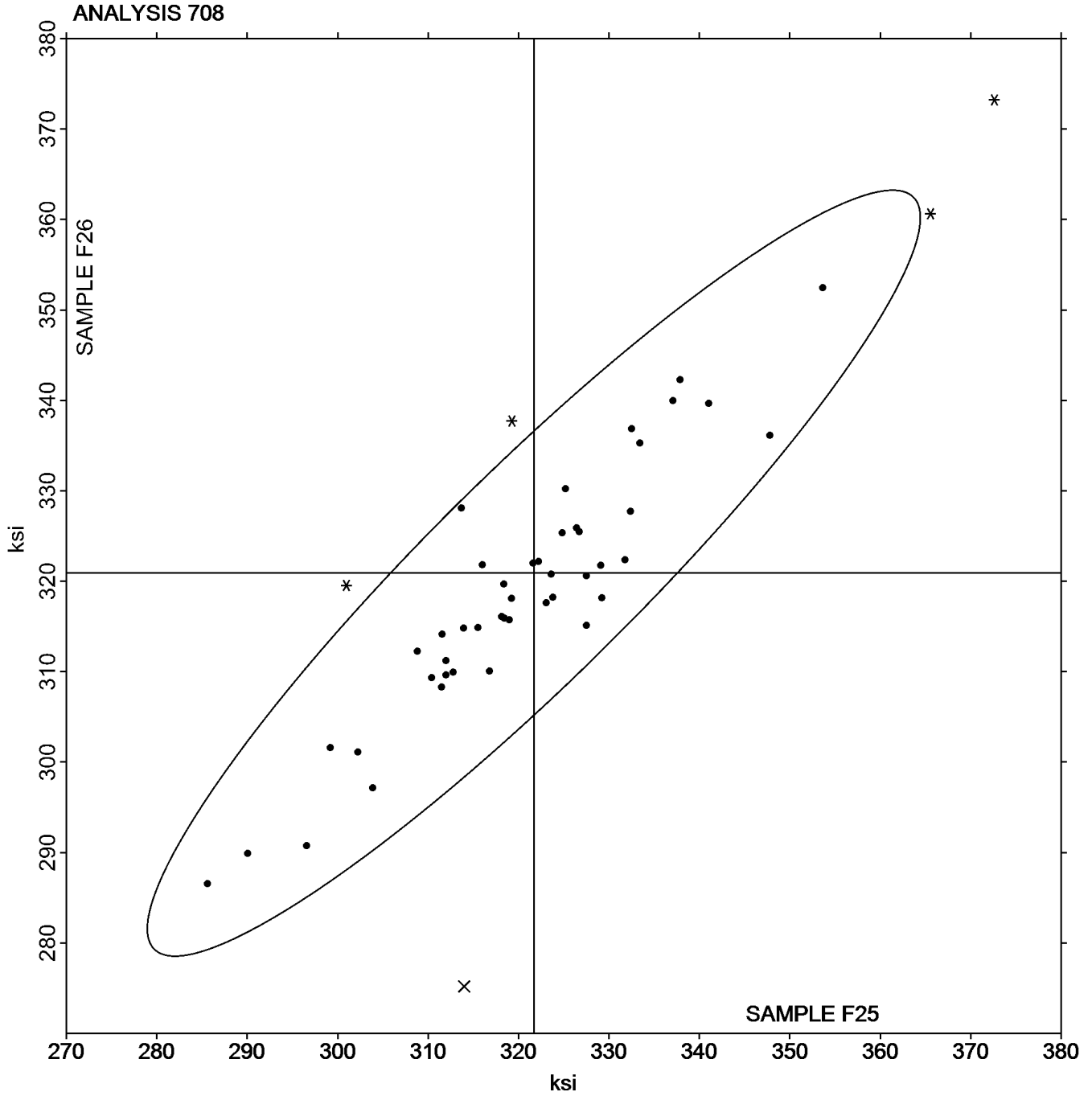
PYVXJU (X) - Inconsistent in testing between samples, data for Sample F26 are low. Also Inconsistent in testing within Sample F26.

X3X48X (X) - Inconsistent in testing between samples, data for Sample F26 are low.

Z46YP8 (X) - Inconsistent in testing between samples, data for Sample F26 are high. Also Inconsistent in testing within Sample F25.

Plastics Interlaboratory Testing Program
Analysis 708
Modulus of Elasticity - ksi

Grand Mean Sample F25: 321.69 ksi Grand Mean Sample F26: 320.89 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 C25			Sample C26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2XZDJP		50.56	1.30	1.64	50.43	1.31	1.52
3MUX64		49.92	0.66	0.83	49.84	0.72	0.83
3XVGQ6		48.58	-0.68	-0.86	47.59	-1.54	-1.78
3ZZ44A		49.94	0.67	0.85	49.65	0.53	0.61
43YLWV		48.27	-0.99	-1.25	47.84	-1.28	-1.49
4L8VQZ		48.12	-1.15	-1.45	48.06	-1.06	-1.23
4LRR3Z		49.84	0.58	0.73	49.92	0.80	0.92
4WVXYM		49.80	0.54	0.68	49.96	0.84	0.97
7BLGTG		48.85	-0.41	-0.52	48.35	-0.77	-0.89
7RBJJR	*	49.24	-0.02	-0.03	47.89	-1.23	-1.43
7WP3V8		48.91	-0.35	-0.44	48.75	-0.37	-0.43
8A9EDV		48.82	-0.44	-0.56	48.86	-0.26	-0.30
ALBKKY		49.20	-0.06	-0.08	49.32	0.20	0.23
B4927N	*	51.24	1.98	2.50	51.30	2.18	2.53
BFLJKC		49.58	0.32	0.40	49.89	0.77	0.89
BT9L6P		49.43	0.17	0.22	49.11	-0.02	-0.02
C87Z3Y		48.44	-0.82	-1.04	48.29	-0.83	-0.97
EDKMLT	*	47.16	-2.10	-2.66	47.24	-1.88	-2.18
EUUC3Z		50.34	1.08	1.37	49.77	0.65	0.76
FJ3HXG		49.15	-0.11	-0.14	49.38	0.25	0.29
FRH2J2		49.45	0.19	0.24	49.55	0.42	0.49
GZ9W3H		48.80	-0.46	-0.59	48.89	-0.23	-0.27
J7NGV8	*	49.32	0.06	0.08	48.00	-1.12	-1.30
J9DVFB		49.22	-0.04	-0.05	49.20	0.08	0.09
KFWDF6		49.19	-0.07	-0.09	49.22	0.09	0.11
L3NMFH		49.37	0.11	0.14	49.33	0.21	0.25
L74HTU		47.92	-1.34	-1.70	47.28	-1.84	-2.13
LBCMME	X	47.76	-1.50	-1.89	50.12	1.00	1.15
LGFU3H		49.50	0.24	0.30	49.34	0.22	0.25
M8DPWM		49.04	-0.22	-0.28	49.12	0.00	0.00
MEAQR8		49.63	0.37	0.47	49.77	0.65	0.75
MVYRRJ		50.86	1.60	2.03	50.45	1.32	1.53

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

WebCode	Data Flag	Sample C25			Sample C26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
NFZ8JU		48.42	-0.85	-1.07	48.02	-1.10	-1.27
NRQZT3		48.82	-0.44	-0.56	48.96	-0.16	-0.19
NWBQLR		50.28	1.02	1.29	50.16	1.04	1.20
PZK9C9		49.86	0.60	0.76	49.62	0.50	0.58
Q3JDV7	X	44.40	-4.86	-6.14	44.00	-5.12	-5.94
QGKVXR		50.08	0.82	1.04	49.58	0.46	0.54
QTYQFC		49.59	0.32	0.41	49.56	0.44	0.51
R72JKT		49.12	-0.14	-0.18	48.58	-0.54	-0.63
RCQ4LN		50.18	0.92	1.16	50.19	1.07	1.23
RYK6J9		48.88	-0.38	-0.48	49.02	-0.10	-0.11
TH8VBT		48.41	-0.86	-1.08	48.52	-0.61	-0.70
TJ8YZW		49.39	0.12	0.16	49.09	-0.03	-0.04
UTPW7T		47.91	-1.36	-1.71	48.41	-0.71	-0.83
VR7ND4		48.70	-0.56	-0.71	49.34	0.22	0.25
XA4RTC		49.28	0.02	0.02	49.23	0.11	0.12
XYLV68	X	49.48	0.22	0.28	47.88	-1.24	-1.44
YXZW9L		49.62	0.35	0.45	49.72	0.60	0.69
Z3VVE4		49.09	-0.17	-0.22	49.15	0.02	0.03

Summary Statistics	
Grand Means	49.262 MPa 49.122 MPa
Std Dev Btwn Labs	0.791 MPa 0.863 MPa
Statistics based on 47 of 50 reporting participants	

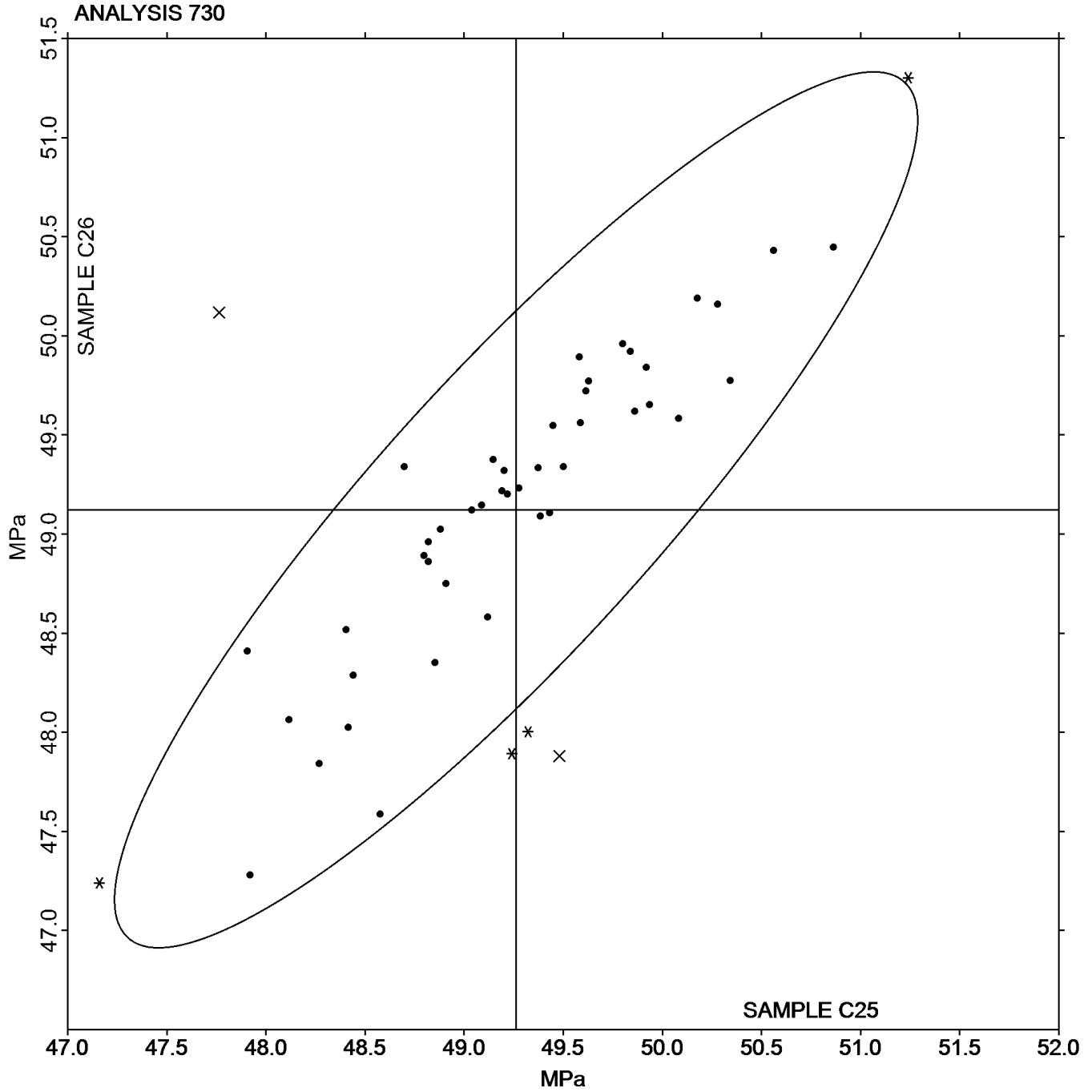
Sample C25: ABS & Sample C26: ABS

Comments on assigned Data Flags for Test #730

- LBCMME (X) - Inconsistent in testing between samples and inconsistent in testing within Sample C25.
- Q3JDV7 (X) - Data for both samples are low.
- XYLV68 (X) - Inconsistent in testing between samples.

Analysis 730
Tensile Stress at Yield - MPa

Grand Mean Sample C25: 49.262 MPa Grand Mean Sample C26: 49.122 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 C25			Sample C26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2XZDJP		38.01	2.80	1.64	37.85	2.90	1.89
3MUX64		37.22	2.01	1.18	36.70	1.76	1.14
3XVGQ6		36.20	0.99	0.58	34.73	-0.21	-0.14
43YLWV		34.46	-0.75	-0.44	34.88	-0.06	-0.04
4L8VQZ		32.13	-3.08	-1.80	32.05	-2.89	-1.88
4LRR3Z		34.50	-0.71	-0.42	35.34	0.40	0.26
4WVXYM		35.12	-0.09	-0.05	35.48	0.54	0.35
7BLGTG		34.39	-0.82	-0.48	32.92	-2.02	-1.31
7RBJJR		34.40	-0.81	-0.48	33.81	-1.13	-0.73
7WP3V8		34.63	-0.58	-0.34	34.56	-0.38	-0.25
8A9EDV		33.56	-1.65	-0.97	34.02	-0.92	-0.60
AAXJN7	X	50.59	15.38	9.02	50.87	15.93	10.34
ALBKKY	X	39.55	4.34	2.55	35.92	0.98	0.63
B4927N		35.45	0.24	0.14	35.18	0.23	0.15
BFLJKC		37.49	2.28	1.34	36.54	1.60	1.04
BT9L6P		35.75	0.54	0.32	36.72	1.78	1.15
C87Z3Y		34.67	-0.54	-0.32	34.40	-0.54	-0.35
EDKMLT		32.94	-2.27	-1.33	33.64	-1.30	-0.85
FJ3HXG		34.35	-0.86	-0.50	34.04	-0.90	-0.58
FRH2J2		34.63	-0.58	-0.34	33.75	-1.19	-0.78
GZ9W3H		38.17	2.96	1.73	36.85	1.91	1.24
J7NGV8		36.34	1.13	0.66	34.02	-0.92	-0.60
J9DVFB		33.78	-1.43	-0.84	33.56	-1.38	-0.90
KFWDF6		34.34	-0.87	-0.51	34.70	-0.24	-0.16
L3NMFH		36.04	0.83	0.48	35.14	0.19	0.13
L74HTU		32.53	-2.68	-1.57	32.83	-2.11	-1.37
LBCMME		34.28	-0.93	-0.54	34.10	-0.84	-0.55
LGFU3H		35.80	0.59	0.35	36.20	1.26	0.82
MEAQR8		33.88	-1.33	-0.78	34.41	-0.53	-0.35
MVYRRJ		37.05	1.84	1.08	36.33	1.38	0.90
NFZ8JU		35.07	-0.14	-0.08	34.46	-0.48	-0.31
NRQZT3		33.74	-1.47	-0.86	33.98	-0.96	-0.63

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

WebCode	Data Flag	Sample C25			Sample C26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
NWBQLR	*	39.66	4.45	2.61	39.30	4.36	2.83
PZK9C9		35.82	0.61	0.36	35.12	0.18	0.12
QGKVXR		34.57	-0.64	-0.38	34.53	-0.42	-0.27
QTYQFC		34.10	-1.11	-0.65	33.73	-1.21	-0.78
R72JKT		38.40	3.19	1.87	38.61	3.67	2.38
RCQ4LN		36.53	1.32	0.77	36.03	1.09	0.71
RYK6J9		35.87	0.66	0.39	34.60	-0.34	-0.22
TH8VBT		34.67	-0.54	-0.31	34.90	-0.04	-0.03
TJ8YZW		34.16	-1.05	-0.62	35.69	0.74	0.48
UTPW7T		33.37	-1.84	-1.08	33.63	-1.31	-0.85
XA4RTC		33.45	-1.76	-1.03	34.63	-0.31	-0.20
XYLV68		33.92	-1.29	-0.76	32.36	-2.58	-1.68
YXZW9L		38.72	3.51	2.05	36.88	1.94	1.26
Z3VVE4		35.12	-0.09	-0.05	34.29	-0.66	-0.43

Summary Statistics

Grand Means

35.211 MPa

34.943 MPa

Std Dev Btwn Labs

1.706 MPa

1.540 MPa

Statistics based on 44 of 46 reporting participants

Sample C25: ABS & Sample C26: ABS

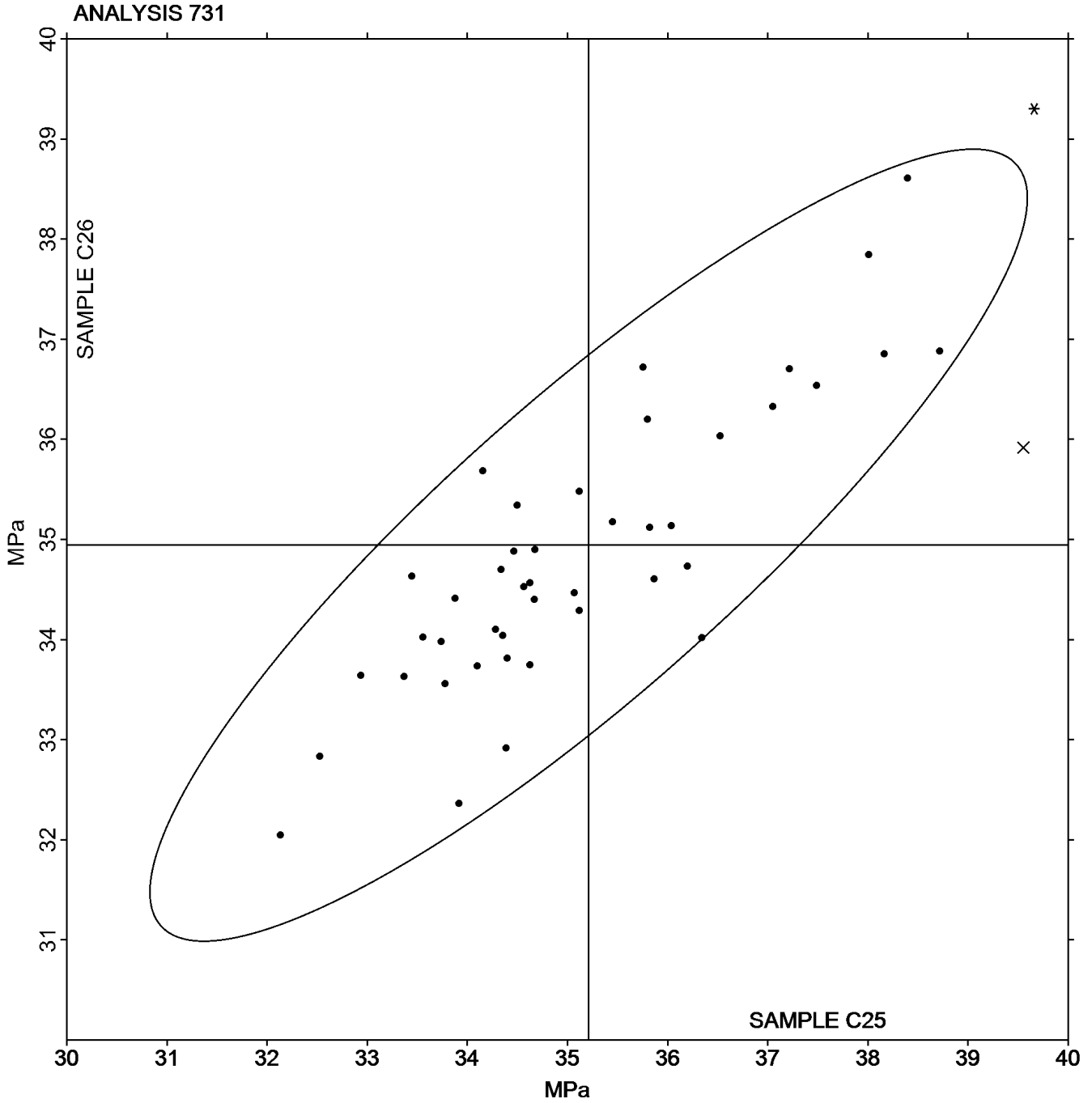
Comments on assigned Data Flags for Test #731

AAXJN7 (X) - Data for both samples are high.

ALBKKY (X) - Inconsistent in testing between samples.

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

Grand Mean Sample C25: 35.211 MPa Grand Mean Sample C26: 34.943 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 C25			Sample C26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2XZDJP		2.678	0.057	1.08	2.662	0.045	0.86
3MUX64	X	2.930	0.309	5.82	2.788	0.171	3.29
3XVGQ6	*	2.560	-0.061	-1.14	2.516	-0.101	-1.96
3ZZ44A		2.604	-0.017	-0.31	2.626	0.009	0.16
43YLWV		2.662	0.041	0.78	2.660	0.043	0.82
4L8VQZ		2.594	-0.027	-0.50	2.600	-0.017	-0.34
4LRR3Z		2.600	-0.021	-0.39	2.600	-0.017	-0.34
4WVXYM		2.540	-0.081	-1.52	2.560	-0.057	-1.11
7BLGTG		2.552	-0.069	-1.29	2.560	-0.057	-1.11
7RBJJR	X	18.304	15.683	295.15	21.180	18.563	358.01
7WP3V8		2.720	0.099	1.87	2.740	0.123	2.36
8A9EDV		2.532	-0.089	-1.67	2.540	-0.077	-1.49
AAXJN7		2.638	0.018	0.33	2.643	0.025	0.48
ALBKKY	X	3.578	0.957	18.02	3.772	1.155	22.27
B4927N		2.608	-0.013	-0.24	2.606	-0.011	-0.22
BFLJKC		2.632	0.011	0.21	2.598	-0.019	-0.38
BT9L6P		2.664	0.043	0.82	2.662	0.045	0.86
C87Z3Y	X	1.878	-0.743	-13.98	1.852	-0.765	-14.76
EDKMLT		2.600	-0.021	-0.39	2.600	-0.017	-0.34
EUUC3Z		2.660	0.039	0.74	2.640	0.023	0.43
FJ3HXG		2.706	0.085	1.61	2.718	0.101	1.94
FRH2J2	X	2.376	-0.245	-4.60	2.484	-0.133	-2.57
GZ9W3H		2.642	0.021	0.40	2.659	0.041	0.80
J7NGV8		2.656	0.036	0.67	2.629	0.012	0.23
J9DVFB		2.680	0.059	1.12	2.660	0.043	0.82
KFWDF6		2.666	0.045	0.85	2.668	0.051	0.97
L3NMFH		2.554	-0.067	-1.25	2.556	-0.061	-1.19
L74HTU	*	2.674	0.053	1.00	2.612	-0.005	-0.11
LBCMME		2.698	0.077	1.46	2.678	0.061	1.17
LGFU3H		2.598	-0.023	-0.43	2.584	-0.033	-0.65
MEAQR8		2.602	-0.019	-0.35	2.594	-0.023	-0.45
MVYRRJ	X	2.451	-0.170	-3.19	2.589	-0.028	-0.55

Plastics Interlaboratory Testing Program
Analysis 732
Percent Strain at Yield

WebCode	Data Flag	Sample C25			Sample C26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
NFZ8JU		2.556	-0.065	-1.22	2.540	-0.077	-1.49
NRQZT3		2.646	0.025	0.48	2.636	0.019	0.36
NWBQLR		2.596	-0.025	-0.46	2.592	-0.025	-0.49
PZK9C9		2.684	0.063	1.19	2.674	0.057	1.09
Q3JDV7	X	2.960	0.339	6.39	3.000	0.383	7.38
QGKVXR		2.526	-0.095	-1.78	2.538	-0.079	-1.53
QTYQFC		2.684	0.063	1.19	2.684	0.067	1.28
R72JKT		2.592	-0.029	-0.54	2.557	-0.061	-1.17
RCQ4LN		2.616	-0.005	-0.09	2.634	0.017	0.32
RYK6J9		2.650	0.029	0.55	2.658	0.041	0.78
TH8VBT		2.604	-0.017	-0.31	2.604	-0.013	-0.26
TJ8YZW	X	2.375	-0.246	-4.63	2.300	-0.317	-6.12
UTPW7T	X	2.328	-0.293	-5.51	2.372	-0.245	-4.73
VR7ND4	*	2.530	-0.091	-1.71	2.580	-0.037	-0.72
XA4RTC		2.662	0.041	0.78	2.664	0.047	0.90
XYLV68	X	2.702	0.081	1.53	2.546	-0.071	-1.38
YXZW9L		2.568	-0.053	-0.99	2.568	-0.049	-0.95
Z3VVE4		2.592	-0.029	-0.54	2.600	-0.017	-0.34

Summary Statistics			
Grand Means	2.6207	Percent	2.6175
			Percent
Stnd Dev Btwn Labs	0.0531	Percent	0.0518
			Percent
Statistics based on 40 of 50 reporting participants			

Sample C25: ABS & Sample C26: ABS

Plastics Interlaboratory Testing Program
Analysis 732
Percent Strain at Yield

Comments on assigned Data Flags for Test #732

3MUX64 (X) - Data for both samples are high. Also inconsistent in testing within Sample C25.

7RBJJR (X) - Extremely high data for all samples. Also Inconsistent in testing within both samples.

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

C87Z3Y (X) - Data for both samples are low. Also inconsistent in testing within both samples.

FRH2J2 (X) - Inconsistent in testing between samples, data for Sample C25 are low. Also inconsistent in testing within both samples.

MVYRRJ (X) - Inconsistent in testing between samples, data for Sample C25 are low. Also inconsistent in testing within Sample C25.

Q3JDV7 (X) - Data for both samples are high. Also inconsistent in testing within Sample C25.

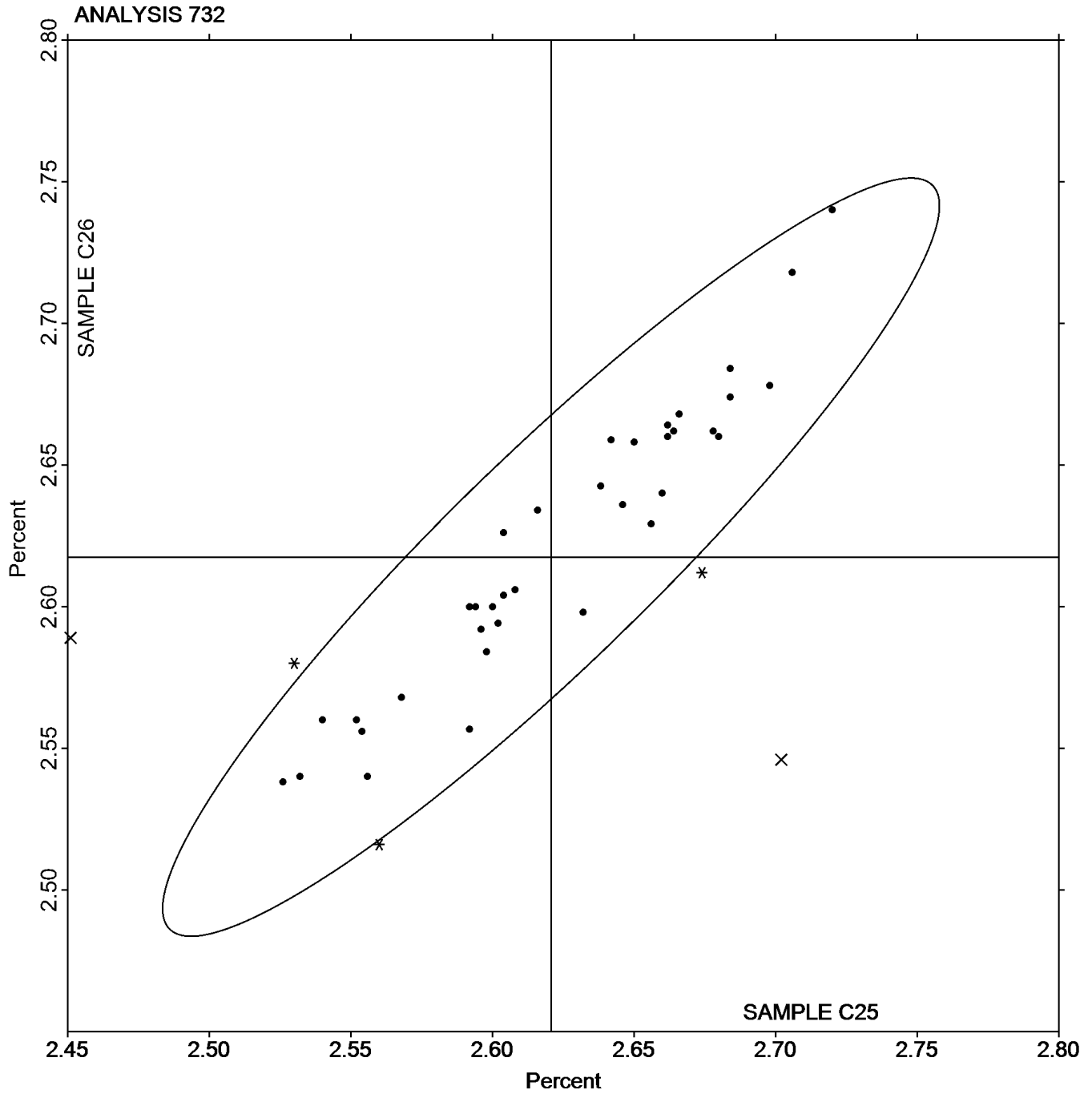
TJ8YZW (X) - Data for both samples are low. Also inconsistent in testing within Sample C25.

UTPW7T (X) - Data for both samples are low.

XYLV68 (X) - Inconsistent in testing between samples.

Plastics Interlaboratory Testing Program
Analysis 732
Percent Strain at Yield

Grand Mean Sample C25: 2.6207 Percent Grand Mean Sample C26: 2.6175 Percent



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

Analysis 734

Modulus of Elasticity - MPa

WebCode	Data Flag	Sample C25			Sample C26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
3MUX64		2,516	116	1.58	2,453	60	0.82
3XVGQ6	X	2,478	78	1.06	2,581	188	2.55
3ZZ44A		2,384	-16	-0.22	2,401	8	0.11
43YLWV		2,320	-80	-1.09	2,331	-62	-0.84
4L8VQZ		2,369	-31	-0.42	2,356	-37	-0.50
4LRR3Z		2,363	-38	-0.51	2,362	-31	-0.42
4WVXYM		2,400	0	0.00	2,400	7	0.10
7BLGTG		2,487	87	1.18	2,467	75	1.01
7RBJJR		2,424	24	0.32	2,410	17	0.23
7WP3V8	X	2,671	270	3.69	2,377	-16	-0.21
8A9EDV		2,373	-27	-0.37	2,345	-48	-0.64
ALBKKY	X	3,085	685	9.34	3,040	647	8.77
B4927N		2,381	-19	-0.27	2,368	-24	-0.33
BFLJKC		2,473	73	1.00	2,475	82	1.11
BT9L6P		2,427	27	0.37	2,412	19	0.26
C87Z3Y		2,473	73	1.00	2,476	84	1.13
EUUC3Z		2,255	-146	-1.99	2,303	-90	-1.22
FJ3HXG		2,235	-165	-2.25	2,242	-151	-2.05
FRH2J2	X	2,946	545	7.44	2,912	519	7.03
GZ9W3H		2,423	23	0.31	2,419	27	0.36
J7NGV8	*	2,450	50	0.68	2,360	-33	-0.44
J9DVFB		2,368	-32	-0.44	2,382	-11	-0.15
KFWDF6		2,346	-54	-0.74	2,376	-17	-0.22
L3NMFH		2,377	-23	-0.31	2,328	-65	-0.88
L74HTU		2,380	-20	-0.27	2,380	-13	-0.17
LBCMME	X	2,273	-127	-1.74	2,434	41	0.56
LGFU3H		2,493	93	1.27	2,500	107	1.45
M8DPWM		2,533	133	1.81	2,533	140	1.90
MEAQR8		2,414	14	0.19	2,421	28	0.39
MVYRRJ		2,572	172	2.35	2,563	170	2.31
NFZ8JU		2,425	25	0.34	2,438	45	0.61
NRQZT3		2,350	-51	-0.69	2,342	-51	-0.69

Plastics Interlaboratory Testing Program
Analysis 734
Modulus of Elasticity - MPa

WebCode	Data Flag	Sample C25			Sample C26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
NWBQLR		2,507	107	1.46	2,507	115	1.55
PZK9C9		2,396	-5	-0.06	2,369	-24	-0.32
Q3JDV7		2,374	-26	-0.36	2,298	-95	-1.28
QGKVXR	X	3,050	650	8.86	3,064	671	9.10
QTYQFC		2,302	-99	-1.35	2,328	-65	-0.88
R72JKT		2,438	37	0.51	2,441	48	0.66
RCQ4LN		2,435	35	0.48	2,420	27	0.37
RYK6J9	*	2,267	-133	-1.81	2,216	-177	-2.40
TH8VBT		2,356	-45	-0.61	2,355	-38	-0.51
TJ8YZW		2,445	45	0.61	2,419	26	0.36
UTPW7T		2,353	-48	-0.65	2,381	-12	-0.16
VR7ND4		2,394	-6	-0.09	2,452	60	0.81
XA4RTC		2,363	-37	-0.51	2,360	-33	-0.45
XYLV68		2,423	23	0.32	2,397	4	0.05
YXZW9L		2,303	-97	-1.33	2,264	-129	-1.74
Z3VVE4		2,442	41	0.56	2,446	53	0.72

Summary Statistics			
Grand Means	2,400.3	MPa	2,392.8
			MPa
Stnd Dev Btwn Labs	73.3	MPa	73.8
			MPa
Statistics based on 42 of 48 reporting participants			

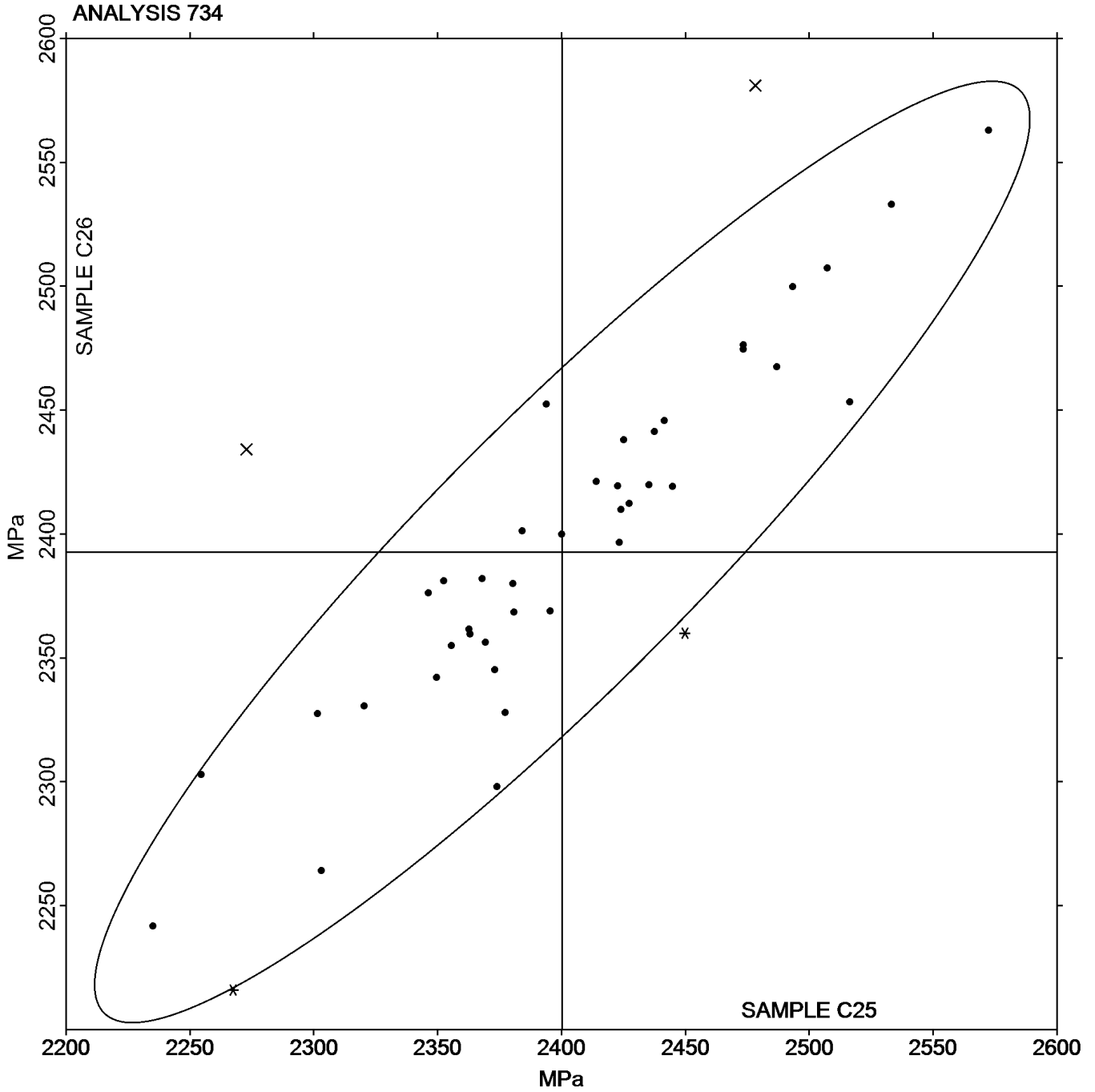
Sample C25: ABS & Sample C26: ABS

Comments on assigned Data Flags for Test #734

- 3XVGQ6 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample C25.
- 7WP3V8 (X) - Inconsistent in testing between samples, data for Sample C25 are high. Also inconsistent in testing within both samples.
- ALBKKY (X) - Data for both samples are high. Also inconsistent in testing within Sample C25.
- FRH2J2 (X) - Data for both samples are high. Also inconsistent in testing within both samples.
- LBCMME (X) - Inconsistent in testing between samples.
- QGKVXR (X) - Data for both samples are high.

Plastics Interlaboratory Testing Program
Analysis 734
Modulus of Elasticity - MPa

Grand Mean Sample C25: 2,400.27 MPa Grand Mean Sample C26: 2,392.77 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 J25			Sample J26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
236JTZ		304.8	-15.6	-0.82	303.6	-16.6	-0.86
2YPR4T		331.5	11.2	0.59	330.2	10.1	0.52
38GFJV		318.2	-2.2	-0.11	319.8	-0.4	-0.02
3YKRJJ		328.8	8.4	0.45	320.9	0.7	0.04
4C7GZZ		324.0	3.7	0.19	325.5	5.4	0.28
4WVXYM	*	270.6	-49.8	-2.64	265.8	-54.4	-2.81
6RC88X	*	260.9	-59.4	-3.15	261.0	-59.2	-3.06
7BLGTG		319.9	-0.4	-0.02	315.7	-4.4	-0.23
8A9EDV		309.6	-10.7	-0.57	311.3	-8.9	-0.46
8PXJLN		326.9	6.6	0.35	326.7	6.5	0.34
8VQER3		334.6	14.2	0.75	339.8	19.6	1.01
B4927N		337.5	17.1	0.91	336.5	16.4	0.85
BFLJKC		359.0	38.6	2.05	356.8	36.7	1.89
CGVQGD		275.0	-45.4	-2.40	274.4	-45.8	-2.36
DB27WU		323.3	3.0	0.16	326.2	6.0	0.31
DDRHP9		337.6	17.2	0.91	340.2	20.0	1.04
DL2LZD		315.9	-4.4	-0.23	317.9	-2.2	-0.12
EK6TFE		325.5	5.2	0.27	324.8	4.6	0.24
EWJNXY		338.4	18.0	0.96	340.6	20.4	1.06
F4XQH7		326.5	6.2	0.33	322.9	2.8	0.14
F7ZRH4		306.0	-14.3	-0.76	311.4	-8.8	-0.45
G66TGB		318.8	-1.6	-0.08	324.4	4.2	0.22
GNDQZ7		333.9	13.6	0.72	334.7	14.5	0.75
GUKJU3		282.5	-37.9	-2.01	281.0	-39.1	-2.02
H4NPQP		332.1	11.7	0.62	332.4	12.2	0.63
HKUXP4	X	300.1	-20.2	-1.07	274.2	-46.0	-2.38
HNFVYF		315.2	-5.2	-0.27	320.2	0.0	0.00
K9XNZL	X	379.8	59.4	3.15	353.4	33.3	1.72
L74HTU		324.9	4.5	0.24	329.6	9.4	0.49
LGFU3H		308.6	-11.7	-0.62	312.7	-7.5	-0.39
LJ9HMY		305.6	-14.8	-0.78	300.8	-19.4	-1.00
M8DPWM		347.0	26.6	1.41	347.0	26.9	1.39

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

WebCode	Data Flag	Sample J25			Sample J26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
MBC3GR		328.1	7.8	0.41	323.2	3.0	0.16
NDUHMC		284.2	-36.2	-1.92	288.1	-32.0	-1.66
NFZ8JU	*	315.5	-4.9	-0.26	304.6	-15.5	-0.80
PVQAZX		325.2	4.8	0.25	322.6	2.4	0.13
PYVXJU		336.2	15.8	0.84	331.1	10.9	0.56
QP37CR		326.8	6.4	0.34	323.1	2.9	0.15
QTYQFC		329.9	9.5	0.50	328.9	8.7	0.45
QV2XCA		324.2	3.8	0.20	321.5	1.4	0.07
R4FUZG		334.2	13.9	0.73	336.5	16.4	0.85
RLRNKA		317.2	-3.2	-0.17	318.2	-2.0	-0.10
RRLKBL		327.9	7.5	0.40	327.5	7.3	0.38
RXBXEV		319.2	-1.2	-0.06	322.5	2.4	0.12
TH8VBT		324.6	4.2	0.22	326.3	6.1	0.31
UP68LF		327.2	6.9	0.36	321.4	1.3	0.06
UQZLDE		355.1	34.7	1.84	359.8	39.6	2.05
VEJJ4L		319.0	-1.3	-0.07	321.4	1.2	0.06
XA4RTC		323.7	3.3	0.18	322.0	1.9	0.10
XYLV68		307.0	-13.4	-0.71	301.4	-18.7	-0.97
YGE9ZC		308.3	-12.1	-0.64	312.7	-7.5	-0.39
Z46YP8		315.5	-4.8	-0.26	314.1	-6.1	-0.31
ZDCR49		320.7	0.4	0.02	319.9	-0.3	-0.02
ZH6WWC		329.4	9.1	0.48	329.6	9.4	0.49
ZMV9PM		336.6	16.2	0.86	337.3	17.2	0.89

Summary Statistics			
Grand Means	320.36	ksi	320.16
			ksi
Std Dev Btwn Labs	18.87	ksi	19.35
			ksi
Statistics based on 53 of 55 reporting participants			

Sample J25: HIPS & Sample J26: HIPS

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

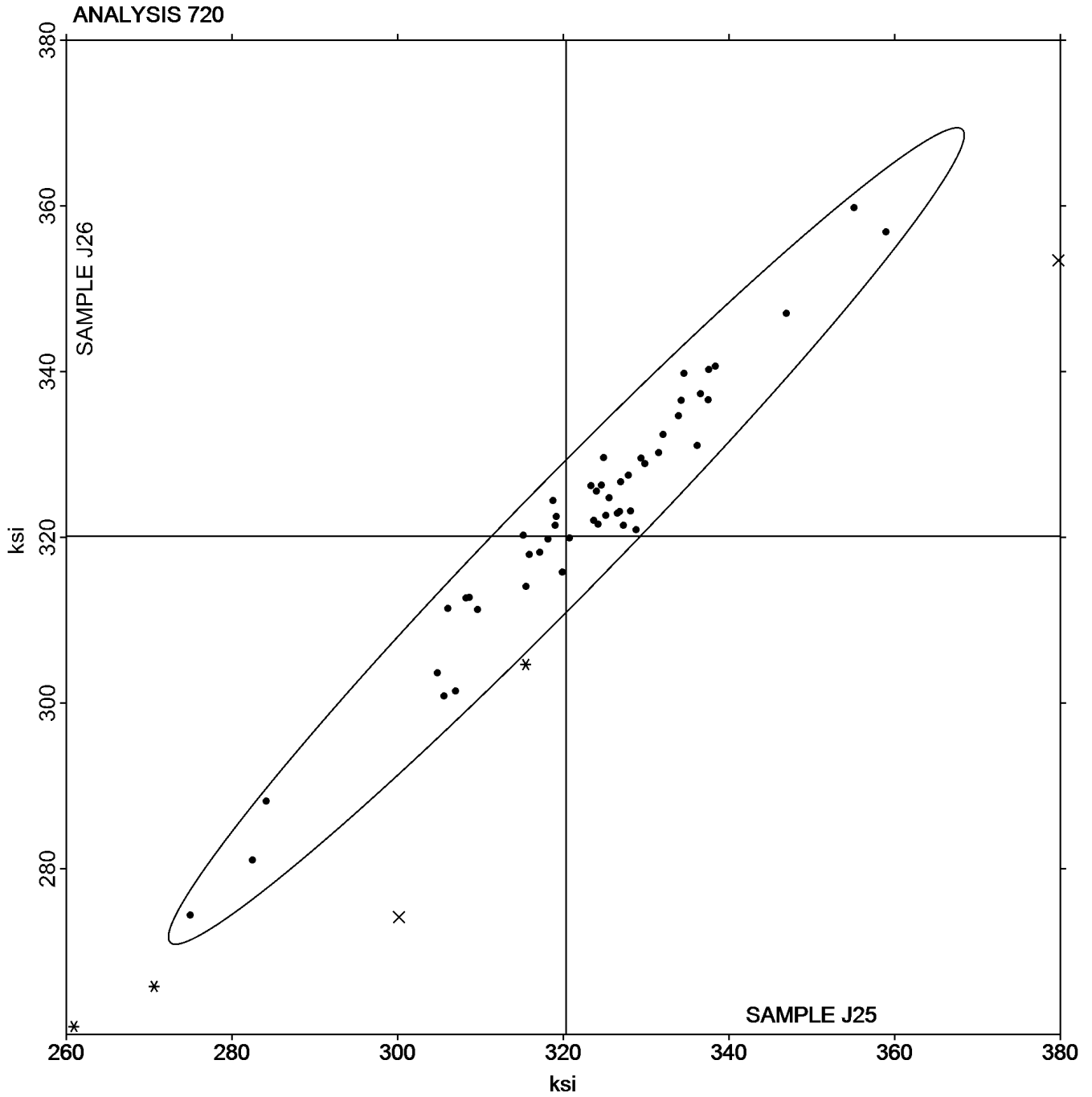
Comments on assigned Data Flags for Test #720

HKUXP4 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample J26.

K9XNZL (X) - Inconsistent in testing between samples, data for Sample J25 are high. Also Inconsistent in testing within both samples.

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

Grand Mean Sample J25: 320.36 ksi Grand Mean Sample J26: 320.16 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 721

Flexural Stress at 5% Strain - psi

WebCode	Data Flag	Sample J25			Sample J26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
236JTZ		6,156	-92	-0.41	6,094	-171	-0.75
2YPR4T		6,315	67	0.30	6,394	129	0.57
38GFJV		5,936	-312	-1.39	5,936	-329	-1.44
3YKRJJ		6,140	-108	-0.48	6,096	-169	-0.74
4C7GZZ		5,817	-432	-1.92	5,855	-410	-1.80
7BLGTG	*	6,382	134	0.59	6,527	262	1.15
8A9EDV		5,981	-267	-1.19	6,045	-220	-0.96
8PXJLN		6,029	-219	-0.98	6,018	-247	-1.08
B4927N		6,787	539	2.40	6,771	506	2.22
BFLJKC		6,520	271	1.21	6,526	261	1.15
DL2LZD		6,238	-10	-0.04	6,262	-3	-0.01
EK6TFE		6,248	0	0.00	6,227	-37	-0.16
EWJNXY		6,593	345	1.54	6,679	414	1.82
F7ZRH4	X	6,347	98	0.44	5,933	-332	-1.46
GNDQZ7		6,256	7	0.03	6,234	-30	-0.13
GUKJU3		5,817	-431	-1.92	5,846	-419	-1.84
H4NPQP		5,897	-351	-1.56	5,884	-380	-1.67
HKUXP4		6,036	-213	-0.95	6,078	-186	-0.82
HNFVYF		5,868	-380	-1.69	5,900	-365	-1.60
K9XNZL		6,270	22	0.10	6,265	0	0.00
L74HTU		6,279	31	0.14	6,366	101	0.44
LGFU3H		6,118	-130	-0.58	6,123	-142	-0.62
LJ9HMY		6,506	258	1.15	6,402	137	0.60
MBC3GR		6,344	96	0.43	6,326	61	0.27
NDUHMC		6,027	-221	-0.99	6,090	-175	-0.77
NFZ8JU		6,180	-68	-0.30	6,131	-134	-0.59
PVQAZX		6,106	-142	-0.63	6,108	-157	-0.69
PYVXJU		6,454	206	0.92	6,442	177	0.78
QTYQFC		6,308	60	0.27	6,358	93	0.41
QV2XCA		6,353	104	0.46	6,307	42	0.19
R4FUZG		6,490	242	1.08	6,515	250	1.10
RLRNKA		6,120	-128	-0.57	6,183	-82	-0.36

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

WebCode	Data Flag	Sample J25			Sample J26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
RRLKBL		6,424	176	0.78	6,411	146	0.64
TH8VBT		6,190	-59	-0.26	6,219	-46	-0.20
UP68LF	X	6,262	14	0.06	6,073	-192	-0.84
UQZLDE		6,290	42	0.19	6,414	150	0.66
VEJJ4L		6,333	85	0.38	6,412	147	0.64
XA4RTC		6,269	21	0.09	6,217	-48	-0.21
XYLV68		6,324	75	0.34	6,385	120	0.53
YGE9ZC		6,760	512	2.28	6,782	517	2.27
Z46YP8		6,389	141	0.63	6,365	100	0.44
ZDCR49		6,244	-4	-0.02	6,229	-35	-0.16
ZH6WWC		6,333	85	0.38	6,351	86	0.38
ZMV9PM		6,298	50	0.22	6,349	84	0.37

Summary Statistics	
Grand Means	6,248.2 psi
Std Dev Btwn Labs	224.6 psi
	6,264.8 psi
	227.9 psi
Statistics based on 42 of 44 reporting participants	

Sample J25: HIPS & Sample J26: HIPS

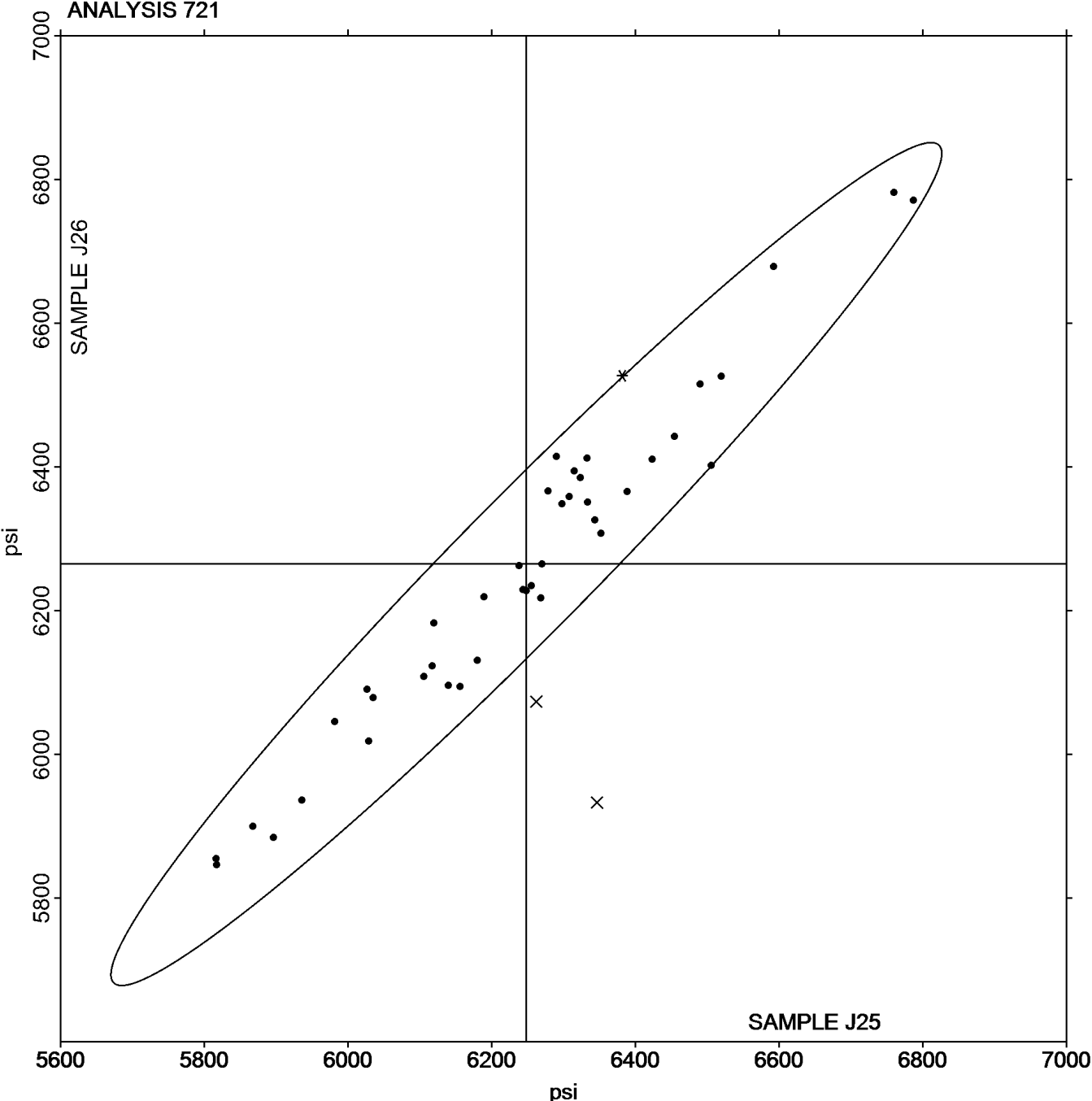
Comments on assigned Data Flags for Test #721

F7ZRH4 (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.

UP68LF (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.

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

Grand Mean Sample J25: 6,248.21 psi Grand Mean Sample J26: 6,264.85 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 J25			Sample J26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
236JTZ		6,202	-57	-0.27	6,124	-150	-0.69
2YPR4T	X	6,446	187	0.87	6,699	425	1.94
38GFJV		6,034	-225	-1.05	6,028	-246	-1.12
3YKRJJ		6,182	-78	-0.36	6,131	-143	-0.66
4C7GZZ		5,884	-376	-1.75	5,903	-371	-1.70
4WVXYM		5,998	-261	-1.22	6,018	-256	-1.17
8A9EDV		6,037	-223	-1.04	6,077	-197	-0.90
8VQER3		6,402	143	0.67	6,414	140	0.64
B4927N		6,788	528	2.47	6,805	531	2.43
CGVQGD	X	6,892	633	2.95	6,718	444	2.03
DB27WU		6,316	56	0.26	6,370	96	0.44
DDRHP9		6,521	262	1.22	6,542	268	1.22
DL2LZD		6,254	-6	-0.03	6,278	4	0.02
EK6TFE		6,275	16	0.08	6,259	-15	-0.07
F4XQH7		6,337	78	0.36	6,398	124	0.57
F7ZRH4	X	6,399	139	0.65	5,992	-282	-1.29
G66TGB		6,104	-155	-0.73	6,196	-78	-0.36
GNDQZ7		6,280	21	0.10	6,253	-21	-0.10
GUKJU3		5,837	-422	-1.97	5,857	-417	-1.91
H4NPQP		5,941	-318	-1.48	5,905	-369	-1.69
HKUXP4		6,080	-179	-0.84	6,108	-166	-0.76
HNFVYF		5,928	-331	-1.55	5,966	-308	-1.41
K9XNZL		6,310	51	0.24	6,341	67	0.30
L74HTU		6,284	24	0.11	6,370	96	0.44
LJ9HMY		6,482	223	1.04	6,391	117	0.53
M8DPWM		6,411	152	0.71	6,462	188	0.86
NDUHMC		6,027	-233	-1.09	6,090	-184	-0.84
NFZ8JU		6,195	-64	-0.30	6,139	-135	-0.62
PVQAZX		6,107	-152	-0.71	6,109	-165	-0.75
PYVXJU		6,470	210	0.98	6,468	194	0.89
QP37CR		6,324	64	0.30	6,237	-37	-0.17
QTYQFC		6,335	75	0.35	6,412	138	0.63

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

WebCode	Data Flag	Sample J25			Sample J26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
QV2XCA		6,360	100	0.47	6,312	38	0.18
R4FUZG		6,468	208	0.97	6,496	222	1.01
RLRNKA		6,164	-95	-0.44	6,222	-52	-0.24
RXBXEV		6,138	-122	-0.57	6,221	-53	-0.24
TH8VBT		6,112	-147	-0.69	6,138	-136	-0.62
UP68LF	X	6,262	3	0.01	6,073	-201	-0.92
UQZLDE		6,397	137	0.64	6,508	234	1.07
XA4RTC		6,273	14	0.06	6,224	-50	-0.23
XYLV68		6,379	119	0.56	6,417	142	0.65
YGE9ZC	*	6,836	577	2.69	6,890	616	2.81
Z46YP8		6,399	140	0.65	6,378	104	0.47
ZDCR49		6,262	2	0.01	6,251	-23	-0.11
ZH6WWC		6,459	200	0.93	6,455	181	0.83
ZMV9PM		6,302	43	0.20	6,347	73	0.34

Summary Statistics	
Grand Means	6,259.3 psi 6,274.1 psi
Std Dev Btwn Labs	214.1 psi 218.9 psi
Statistics based on 42 of 46 reporting participants	

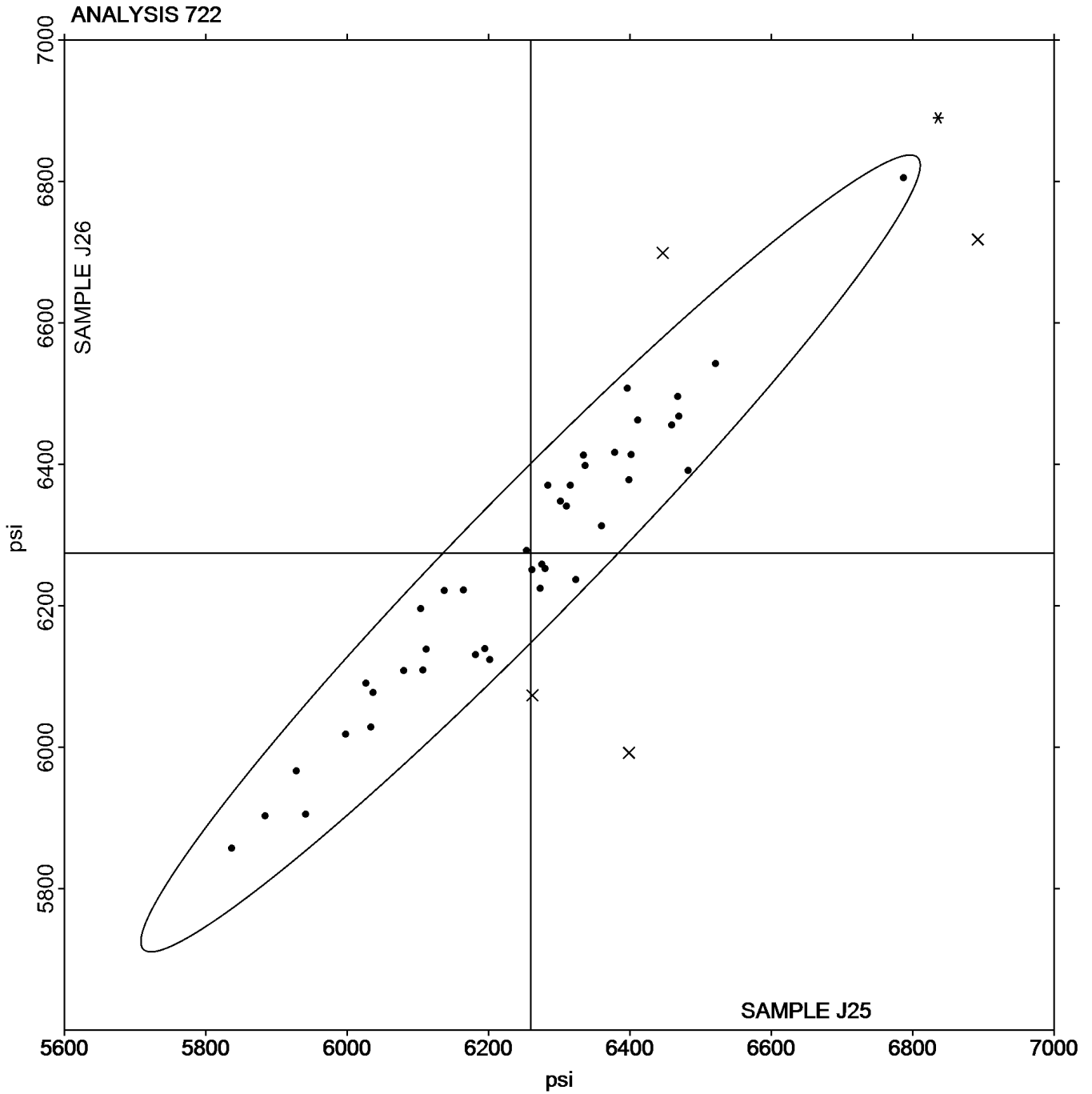
Sample J25: HIPS & Sample J26: HIPS

Comments on assigned Data Flags for Test #722

- 2YPR4T (X) - Inconsistent in testing between samples.
- CGVQGD (X) - Inconsistent in testing between samples, data for Sample J25 are high. Also Inconsistent in testing within Sample J26.
- F7ZRH4 (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.
- UP68LF (X) - Inconsistent in testing between samples and inconsistent in testing within Sample J26.

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

Grand Mean Sample J25: 6,259.34 psi Grand Mean Sample J26: 6,274.05 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 K25			Sample K26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2XZDJP	X	2,113	-85	-0.95	2,202	59	0.68
3MUX64	X	2,355	156	1.75	2,396	254	2.91
3XVGQ6		2,238	39	0.44	2,143	1	0.01
3ZZ44A		2,210	12	0.13	2,147	5	0.06
43YLWV		2,182	-17	-0.18	2,181	39	0.45
4LRR3Z		2,120	-78	-0.87	2,034	-108	-1.24
4WVXYM		2,090	-108	-1.21	2,108	-34	-0.39
74KG7A		2,139	-59	-0.66	2,042	-101	-1.15
7BLGTG		2,116	-82	-0.92	2,150	8	0.09
7WP3V8		2,217	18	0.20	2,143	0	0.01
8A9EDV		2,192	-6	-0.07	2,104	-38	-0.44
9UQYUW		2,234	35	0.39	2,228	86	0.98
AAXJN7		2,148	-50	-0.56	2,081	-61	-0.70
AK46AM		2,143	-55	-0.61	2,083	-59	-0.68
ALBKKY		2,356	158	1.76	2,267	125	1.43
B4927N		2,376	177	1.98	2,327	185	2.12
BFLJKC		2,222	24	0.27	2,107	-36	-0.41
C87Z3Y		2,189	-9	-0.10	2,153	11	0.12
EUUC3Z		2,222	24	0.26	2,163	20	0.23
FFA9XG		2,224	26	0.29	2,216	74	0.85
FJ3HXG		2,172	-27	-0.30	2,085	-57	-0.66
FRH2J2		2,386	187	2.09	2,292	150	1.72
J7NGV8	*	2,125	-74	-0.82	2,174	31	0.36
J9DVFB		2,236	38	0.42	2,162	20	0.23
KFWDF6		2,196	-3	-0.03	2,111	-31	-0.36
L3NMFH		2,225	27	0.30	2,171	28	0.33
L74HTU		2,072	-126	-1.40	1,999	-143	-1.64
LGFU3H		2,263	65	0.72	2,214	72	0.82
M8DPWM		2,279	80	0.90	2,213	70	0.81
MEAQR8	*	1,978	-220	-2.46	1,898	-244	-2.80
NFZ8JU		2,034	-165	-1.83	1,993	-149	-1.71
NRQZT3		2,153	-45	-0.50	2,104	-38	-0.44

Plastics Interlaboratory Testing Program
Analysis 736
Flexural Modulus - MPa

WebCode	Data Flag	Sample K25			Sample K26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
NWBQLR		2,300	101	1.13	2,165	23	0.26
PZK9C9		2,152	-46	-0.52	2,067	-76	-0.87
Q3JDV7		2,152	-46	-0.52	2,126	-16	-0.19
QGKVXR		2,301	102	1.14	2,235	93	1.07
QTYQFC		2,119	-80	-0.89	2,057	-85	-0.98
R4FUZG		2,288	90	1.00	2,208	65	0.75
R72JKT		2,264	66	0.74	2,206	64	0.73
RMM9BF		1,989	-210	-2.34	1,970	-172	-1.97
RYK6J9		2,225	27	0.30	2,183	40	0.46
TH8VBT		2,348	150	1.67	2,317	175	2.01
TJ8YZW		2,240	42	0.47	2,180	38	0.43
VR7ND4		2,154	-44	-0.49	2,093	-49	-0.56
W6TXXN		2,175	-23	-0.26	2,131	-11	-0.13
XA4RTC		2,192	-7	-0.07	2,121	-21	-0.24
XTCRZQ	X	2,036	-163	-1.81	2,192	50	0.57
XYLV68		2,169	-30	-0.33	2,115	-27	-0.31
YAD43Z		2,340	142	1.58	2,287	145	1.66
YXZW9L		2,252	53	0.59	2,179	36	0.42
Z3VVE4		2,180	-18	-0.20	2,159	16	0.19
ZMV9PM		2,140	-59	-0.65	2,080	-63	-0.72

Summary Statistics

Grand Means

2,198.3 MPa

2,142.3 MPa

Std Dev Btwn Labs

89.7 MPa

87.2 MPa

Statistics based on 49 of 52 reporting participants

Sample K25: HIPS & Sample K26: HIPS

Comments on assigned Data Flags for Test #736

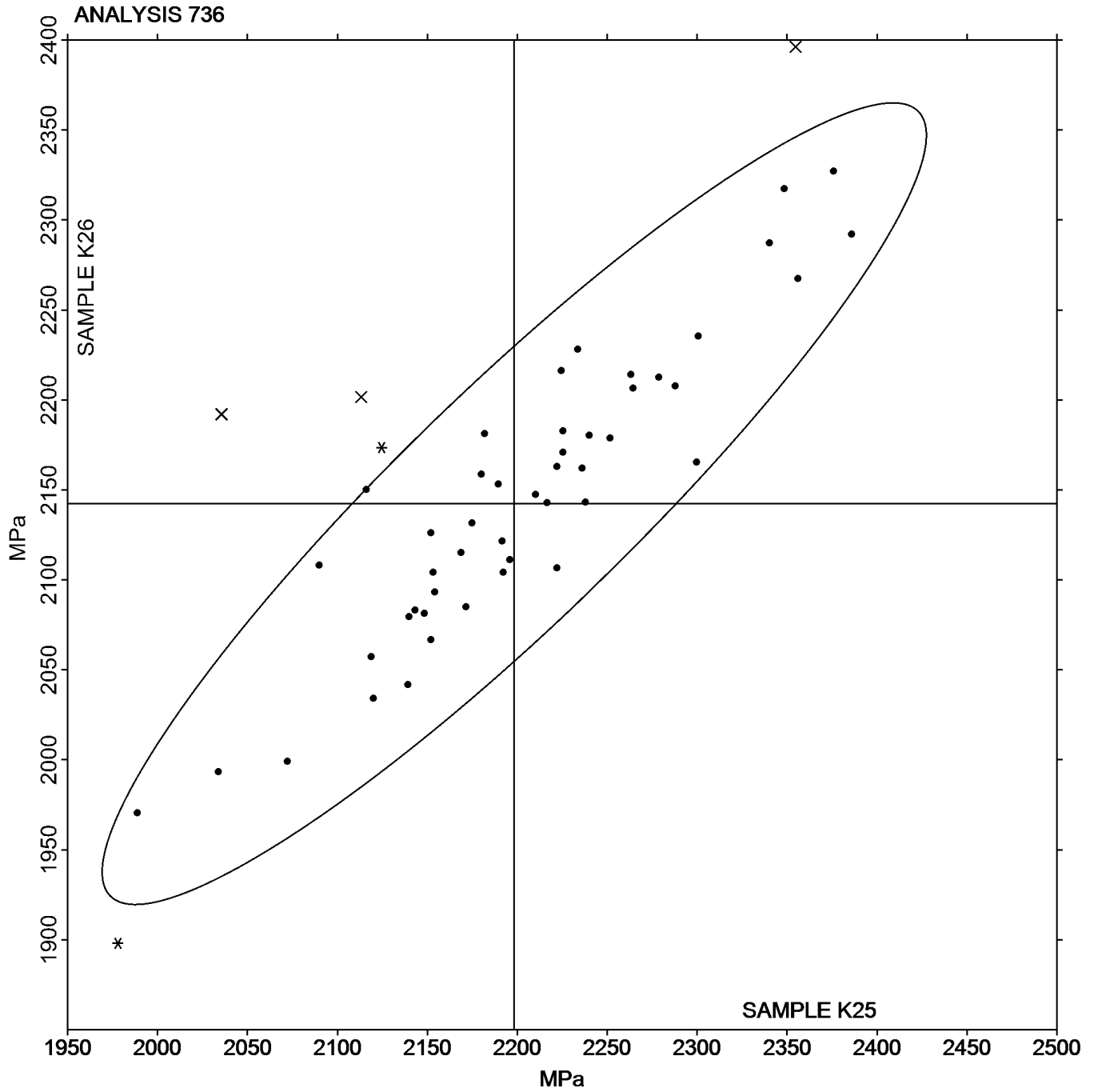
2XZDJP (X) - Inconsistent in testing between samples and inconsistent in testing within Sample K25.

3MUX64 (X) - Inconsistent in testing between samples, data for Sample K26 are high.

XTCRZQ (X) - Inconsistent in testing between samples.

Analysis 736
Flexural Modulus - MPa

Grand Mean Sample K25: 2,198.31 MPa Grand Mean Sample K26: 2,142.34 MPa



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

Analysis 737

Flexural Stress at 3.5% Strain - MPa

WebCode	Data Flag	Sample K25			Sample K26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2XZDJP		42.77	-0.46	-0.46	41.51	-0.97	-1.10
3MUX64	X	45.72	2.50	2.51	46.80	4.33	4.91
3XVGQ6		42.58	-0.64	-0.64	42.18	-0.30	-0.34
3ZZ44A		43.40	0.17	0.18	42.44	-0.03	-0.03
43YLWV		42.07	-1.16	-1.17	42.00	-0.48	-0.54
4LRR3Z		42.34	-0.88	-0.89	41.16	-1.31	-1.49
74KG7A		44.07	0.84	0.85	42.86	0.39	0.44
7BLGTG	X	42.43	-0.79	-0.79	43.23	0.76	0.86
7WP3V8	X	38.25	-4.97	-5.01	37.60	-4.87	-5.53
8A9EDV		43.10	-0.12	-0.12	42.44	-0.03	-0.04
9UQYUW		42.56	-0.66	-0.67	42.06	-0.41	-0.47
AK46AM		43.90	0.67	0.68	43.27	0.79	0.90
ALBKKY		40.99	-2.24	-2.25	40.61	-1.87	-2.12
B4927N	X	47.16	3.93	3.96	45.99	3.52	4.00
BFLJKC		45.40	2.18	2.19	44.52	2.05	2.32
C87Z3Y		42.13	-1.10	-1.10	41.62	-0.86	-0.97
FFA9XG		43.05	-0.17	-0.17	42.53	0.06	0.07
FJ3HXG		43.63	0.41	0.41	43.26	0.78	0.89
FRH2J2		41.93	-1.30	-1.30	42.11	-0.37	-0.42
J7NGV8		44.64	1.42	1.43	44.36	1.88	2.14
J9DVFB		44.23	1.00	1.01	43.17	0.70	0.79
KFWDF6		44.13	0.91	0.91	42.89	0.41	0.47
L3NMFH		42.72	-0.51	-0.51	42.04	-0.44	-0.49
L74HTU		43.69	0.46	0.47	42.23	-0.24	-0.28
LGFU3H		42.95	-0.28	-0.28	42.32	-0.15	-0.17
MEAQR8		42.89	-0.33	-0.33	41.89	-0.58	-0.66
NFZ8JU		41.22	-2.01	-2.02	40.57	-1.90	-2.16
NRQZT3		43.24	0.02	0.02	42.44	-0.03	-0.04
PB2YUR		44.89	1.67	1.68	44.10	1.63	1.85
PZK9C9		44.92	1.69	1.71	43.48	1.01	1.15
Q3JDV7		42.80	-0.42	-0.43	42.32	-0.15	-0.17
QGKVXR		44.33	1.11	1.12	43.58	1.11	1.26

Analysis 737

Flexural Stress at 3.5% Strain - MPa

WebCode	Data Flag	Sample K25			Sample K26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
QTYQFC		43.71	0.49	0.49	42.74	0.27	0.31
R4FUZG		44.79	1.56	1.57	43.42	0.95	1.08
RYK6J9		43.74	0.52	0.52	42.35	-0.13	-0.15
TH8VBT		42.88	-0.35	-0.35	42.51	0.03	0.04
TJ8YZW		43.50	0.27	0.27	42.71	0.23	0.26
VR7ND4		42.87	-0.35	-0.35	42.53	0.06	0.07
W6TXXN		42.76	-0.47	-0.47	42.33	-0.14	-0.16
XA4RTC		42.38	-0.84	-0.85	41.37	-1.10	-1.25
XYLV68		42.70	-0.52	-0.53	42.46	-0.01	-0.02
YXZW9L		42.81	-0.42	-0.42	41.62	-0.85	-0.97
ZMV9PM		43.02	-0.20	-0.20	42.49	0.01	0.01

Summary Statistics

Grand Means

43.223 MPa

42.474 MPa

Stnd Dev Btwn Labs

0.993 MPa

0.881 MPa

Statistics based on 39 of 43 reporting participants

Sample K25: HIPS & Sample K26: HIPS

Comments on assigned Data Flags for Test #737

3MUX64 (X) - Inconsistent in testing between samples, data for Sample K26 are high.

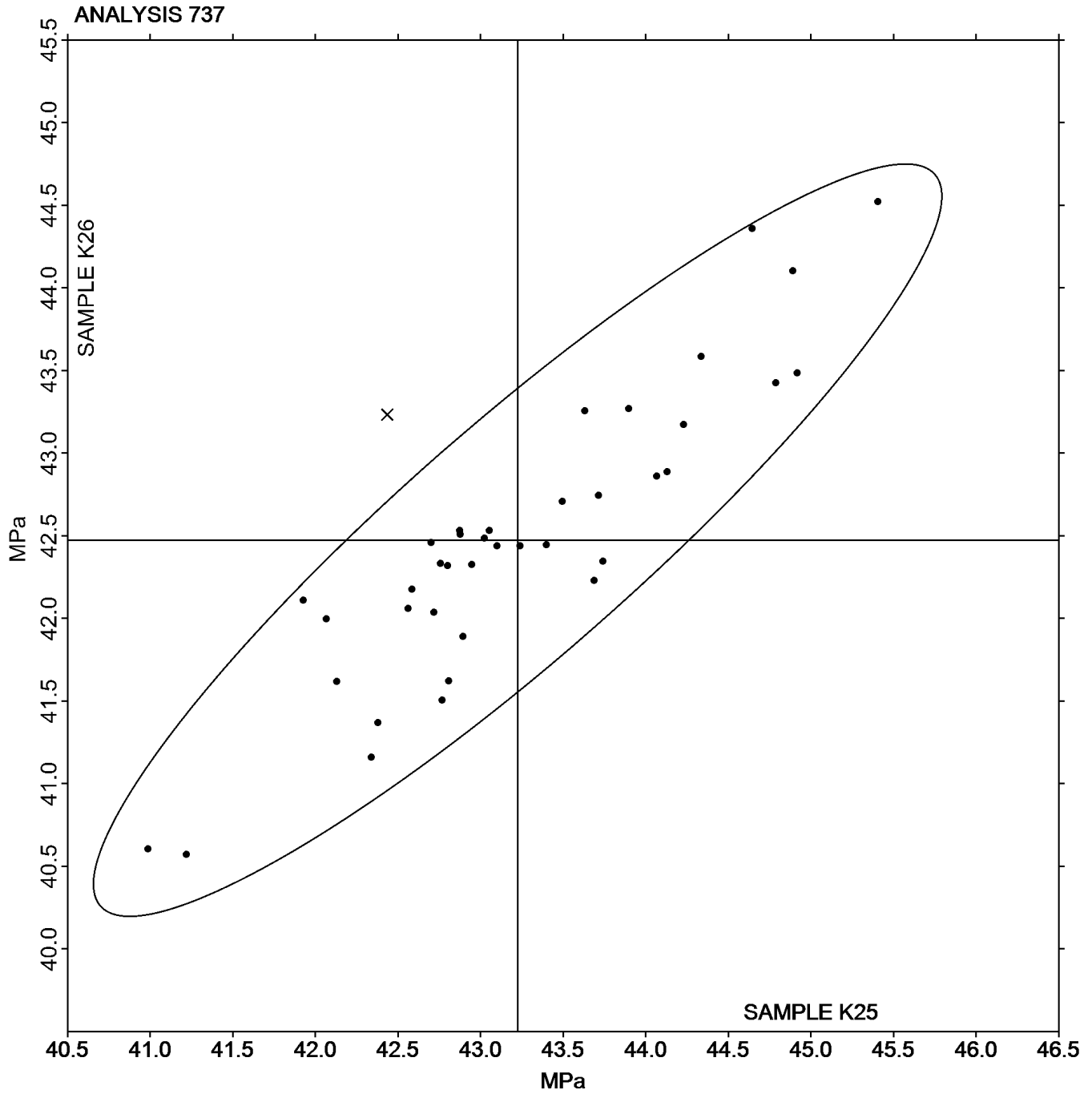
7BLGTG (X) - Inconsistent in testing between samples.

7WP3V8 (X) - Data for both samples are low. Also inconsistent in testing within both samples.

B4927N (X) - Data for both samples are high. Possible systematic error.

Analysis 737
Flexural Stress at 3.5% Strain - MPa

Grand Mean Sample K25: 43.223 MPa Grand Mean Sample K26: 42.474 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 K25			Sample K26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2XZDJP		42.76	-0.69	-0.56	41.64	-1.08	-0.95
3XVGQ6		42.74	-0.72	-0.57	42.55	-0.16	-0.14
3ZZ44A		43.44	-0.01	-0.01	42.61	-0.11	-0.09
43YLWV		42.10	-1.35	-1.09	42.05	-0.66	-0.59
4LRR3Z		42.48	-0.97	-0.78	41.26	-1.45	-1.28
4WVXYM		42.62	-0.83	-0.67	42.02	-0.69	-0.61
74KG7A		44.13	0.68	0.55	42.89	0.18	0.16
7WP3V8	X	38.26	-5.20	-4.17	37.60	-5.11	-4.52
8A9EDV		43.12	-0.33	-0.27	42.58	-0.13	-0.12
9UQYUW		42.68	-0.77	-0.62	42.12	-0.59	-0.52
AK46AM		43.95	0.50	0.40	43.42	0.71	0.63
ALBKKY		41.04	-2.42	-1.94	40.66	-2.05	-1.82
B4927N	*	47.52	4.06	3.26	46.25	3.54	3.13
C87Z3Y		42.21	-1.25	-1.00	41.68	-1.03	-0.91
FFA9XG		43.30	-0.15	-0.12	43.00	0.29	0.25
FRH2J2		42.05	-1.40	-1.12	42.19	-0.52	-0.46
J7NGV8	*	45.10	1.65	1.32	45.00	2.29	2.02
J9DVFB		44.39	0.94	0.76	43.47	0.76	0.67
KFWDF6		44.17	0.71	0.57	43.01	0.30	0.26
L3NMFH		42.78	-0.67	-0.54	42.13	-0.58	-0.51
L74HTU		43.75	0.30	0.24	42.43	-0.28	-0.25
M8DPWM		43.15	-0.30	-0.24	42.31	-0.40	-0.35
MEAQR8		42.95	-0.50	-0.40	41.94	-0.77	-0.68
MVYRRJ		45.58	2.12	1.71	44.70	1.99	1.76
NFZ8JU		41.30	-2.15	-1.73	40.81	-1.91	-1.68
NRQZT3		43.54	0.09	0.07	42.68	-0.03	-0.03
NWBQLR		45.62	2.17	1.74	44.77	2.06	1.82
PZK9C9		44.99	1.53	1.23	43.62	0.91	0.80
QGKVXR		44.40	0.95	0.76	43.73	1.02	0.90
QTYQFC		43.77	0.31	0.25	42.89	0.18	0.16
R4FUZG		44.73	1.27	1.02	43.91	1.20	1.06
R72JKT		43.20	-0.26	-0.21	42.36	-0.36	-0.31

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

WebCode	Data Flag	Sample K25			Sample K26		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
RYK6J9		43.77	0.32	0.25	42.39	-0.32	-0.28
TH8VBT		42.67	-0.79	-0.63	41.90	-0.81	-0.71
TJ8YZW		43.50	0.04	0.03	42.71	-0.01	-0.01
W6TXXN		42.79	-0.66	-0.53	42.45	-0.27	-0.24
XA4RTC		42.26	-1.20	-0.96	41.45	-1.27	-1.12
XYLV68		43.02	-0.43	-0.35	42.66	-0.05	-0.05
YAD43Z		44.69	1.24	0.99	43.45	0.74	0.65
YXZW9L		42.84	-0.61	-0.49	41.65	-1.07	-0.94
Z3VVE4		43.03	-0.42	-0.34	43.17	0.46	0.40

Summary Statistics

Grand Means

43.453 MPa

42.712 MPa

Std Dev Btwn Labs

1.246 MPa

1.132 MPa

Statistics based on 40 of 41 reporting participants

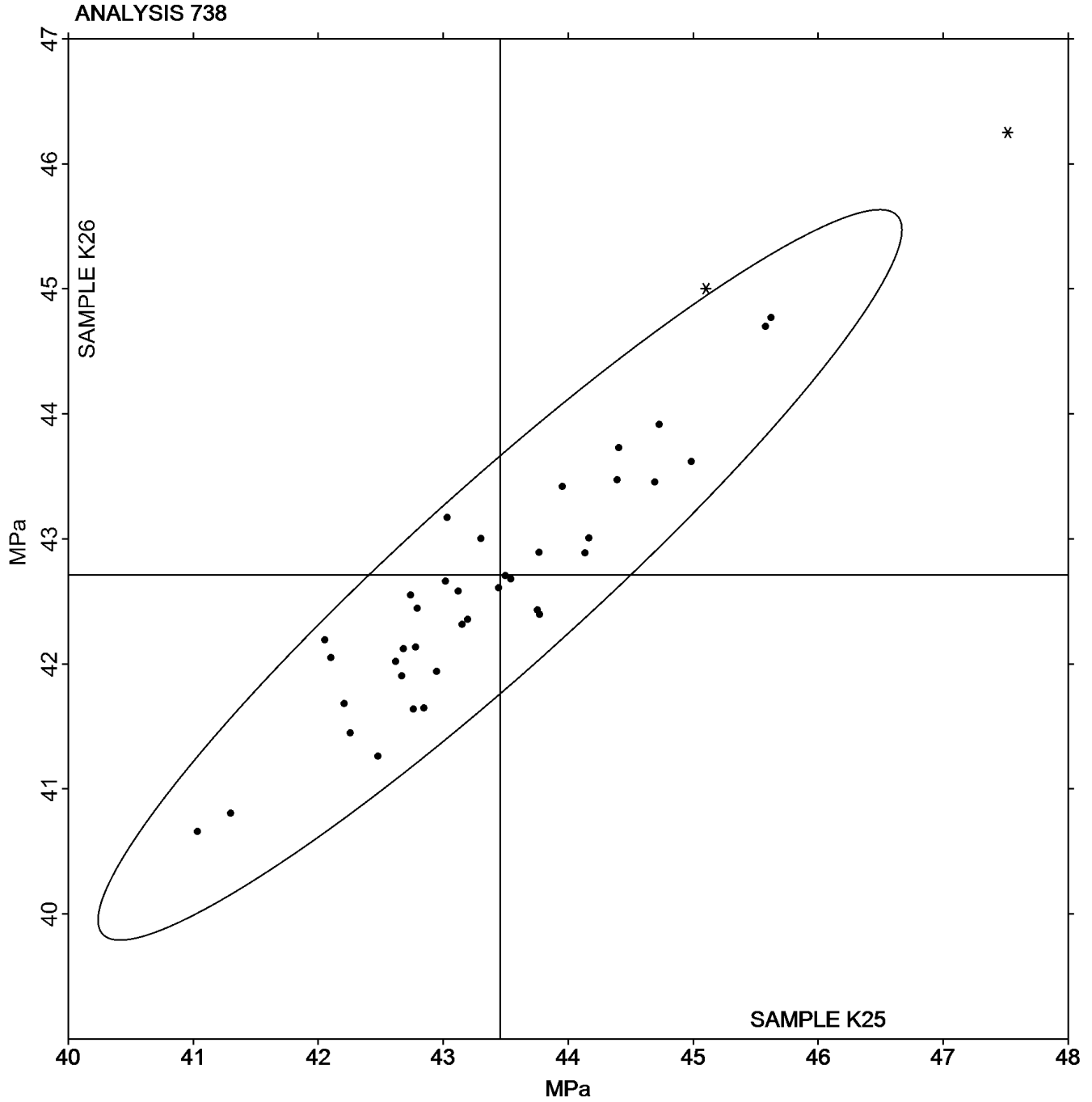
Sample K25: HIPS & Sample K26: HIPS

Comments on assigned Data Flags for Test #738

7WP3V8 (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 K25: 43.453 MPa Grand Mean Sample K26: 42.712 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 S25			Sample S26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2YPR4T		8.34	-0.80	-0.83	8.38	-0.79	-0.74	TM
42627P		8.12	-1.01	-1.05	7.98	-1.19	-1.12	TO
43YLWV	*	11.96	2.83	2.95	11.90	2.74	2.57	CS
4WVXYM		6.82	-2.31	-2.40	7.05	-2.12	-1.99	TO
7BLGTG		8.13	-1.00	-1.04	9.48	0.31	0.29	BA
8A9EDV		8.36	-0.78	-0.81	7.90	-1.27	-1.19	TY
8VQER3		9.29	0.16	0.16	9.55	0.38	0.36	WZ
9GP3W4		8.48	-0.66	-0.68	8.09	-1.08	-1.01	BA
9UQYUW		7.57	-1.56	-1.63	7.11	-2.06	-1.93	DY
BFLJKC		9.90	0.77	0.80	9.64	0.47	0.44	CE
BNHYPK	X	4.22	-4.92	-5.12	4.26	-4.91	-4.60	TO
CGVQGD	X	5.19	-3.94	-4.10	5.56	-3.61	-3.38	TO
CWLVP8		9.35	0.21	0.22	9.38	0.21	0.20	TO
DDRHP9	X	68.60	59.46	61.86	79.68	70.51	66.12	XX
DL2LZD		10.70	1.56	1.63	10.91	1.74	1.64	TO
EHFEVB		9.41	0.28	0.29	9.26	0.09	0.08	TO
EUUC3Z		9.45	0.31	0.33	9.02	-0.15	-0.14	TO
EWJNXY		10.57	1.44	1.49	10.58	1.41	1.32	XX
F4XQH7		9.17	0.04	0.04	8.98	-0.19	-0.18	TM
G66TGB		8.99	-0.15	-0.15	8.84	-0.33	-0.31	TM
GNDQZ7		9.19	0.05	0.06	9.21	0.04	0.04	TO
GUKJU3		7.85	-1.28	-1.33	7.79	-1.38	-1.30	CE
HKUXP4	X	12.50	3.37	3.50	11.28	2.11	1.98	TO
J9DVFB		8.50	-0.63	-0.66	8.34	-0.83	-0.78	CE
JH3GLA		11.28	2.15	2.23	11.24	2.07	1.95	TO
KFWDF6		10.22	1.09	1.13	10.42	1.25	1.17	CE
L74HTU		9.19	0.06	0.06	7.68	-1.49	-1.40	TM
LMN9UE		7.74	-1.40	-1.45	8.71	-0.46	-0.43	TM
LN2KV6		9.98	0.84	0.88	9.09	-0.08	-0.07	TM
M8DPWM		9.15	0.01	0.02	9.30	0.13	0.12	CE
MBC3GR		9.40	0.27	0.28	7.96	-1.21	-1.14	TM
NB79BQ		8.92	-0.22	-0.22	8.87	-0.30	-0.28	TM

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

WebCode	Data Flag	Sample S25			Sample S26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
NDUHMC		9.51	0.38	0.39	9.58	0.42	0.39	TM
NFZ8JU		9.58	0.45	0.47	10.38	1.21	1.13	TM
QP37CR		8.32	-0.81	-0.85	9.12	-0.05	-0.05	TO
QTYQFC		9.23	0.10	0.10	9.33	0.16	0.15	WZ
QV2XCA		8.16	-0.97	-1.01	8.53	-0.64	-0.60	XX
R4FUZG		8.92	-0.21	-0.22	7.50	-1.67	-1.57	CE
RYK6J9		8.57	-0.56	-0.58	8.89	-0.28	-0.26	TO
TH8VBT		9.93	0.80	0.83	10.45	1.28	1.20	TO
UQZLDE		8.38	-0.76	-0.79	9.20	0.03	0.03	TO
UQZN3J	*	8.40	-0.73	-0.76	10.14	0.97	0.91	TM
WD6CH6		8.79	-0.35	-0.36	8.06	-1.11	-1.04	TM
XA4RTC		8.86	-0.28	-0.29	8.63	-0.54	-0.50	WZ
XYLV68		9.28	0.15	0.16	9.14	-0.03	-0.03	CE
YAGGU3		9.04	-0.10	-0.10	9.17	0.00	0.00	TM
YGE9ZC		9.79	0.66	0.69	9.65	0.48	0.45	TO
YQ2C3J		9.16	0.02	0.02	9.00	-0.17	-0.15	XX
YXZW9L		9.55	0.41	0.43	10.13	0.96	0.90	TO
Z46YP8		10.13	1.00	1.04	10.56	1.39	1.30	CE
ZDCR49		10.36	1.23	1.28	10.59	1.42	1.33	TM
ZH6WWC		8.41	-0.73	-0.76	9.41	0.24	0.23	TO

Summary Statistics			
Grand Means	9.133 ft.lbf/in	9.169 ft.lbf/in	
Stnd Dev Btwn Labs	0.961 ft.lbf/in	1.066 ft.lbf/in	
Statistics based on 48 of 52 reporting participants			

Sample S25: ABS/PC & Sample S26: ABS/PC

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

Comments on assigned Data Flags for Test #790

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

CGVQGD (X) - Data for both samples are low. Also inconsistent in testing within Sample S25.

DDRHP9 (X) - Data for both samples are high. Also inconsistent in testing within Sample S25.

HKUXP4 (X) - Inconsistent in testing between samples, data for Sample S25 are high.

Instrument Code List as Reported by the Labs

(BA) - Baldwin

(CE) - Ceast

(CS) - CSI

(DY) - Dynatup

(TM) - TMI

(TO) - Tinius Olsen

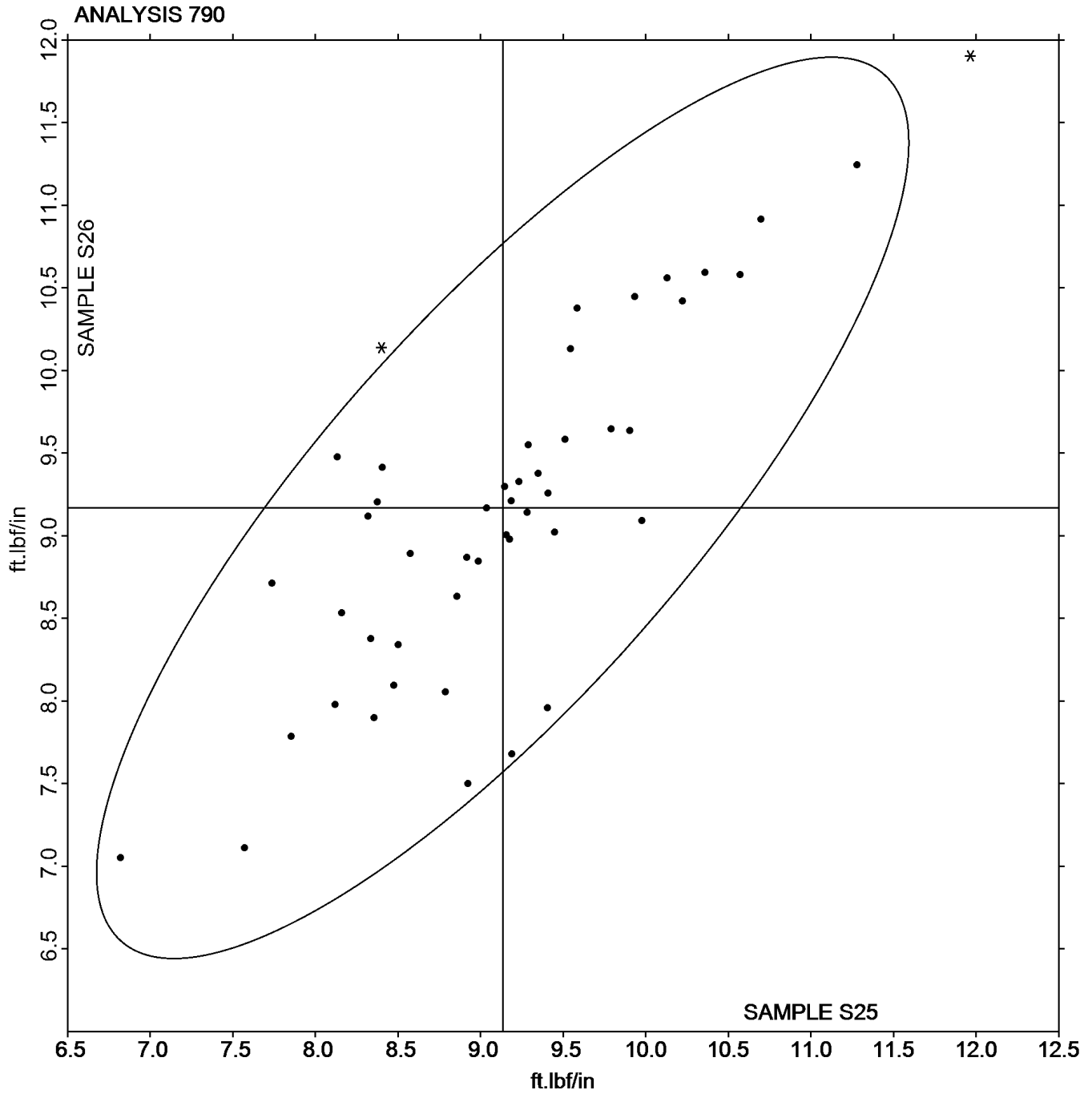
(TY) - Toyoseiki

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample S25: 9.1330 ft.lbf/in Grand Mean Sample S26: 9.1693 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/m²

WebCode	Data Flag	Sample Z25			Sample Z26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2XZDJP		24.56200	-0.52035	-0.37	24.65000	0.05183	0.04	TO
3MUX64		25.11000	0.02765	0.02	24.41000	-0.18817	-0.15	IN
3XVGQ6		23.64800	-1.43435	-1.02	23.71200	-0.88617	-0.71	XX
4LRR3Z		23.28000	-1.80235	-1.29	23.48000	-1.11817	-0.89	WZ
7WP3V8		24.76620	-0.31615	-0.23	23.65420	-0.94397	-0.76	CE
8A9EDV		24.68200	-0.40035	-0.29	24.58400	-0.01417	-0.01	XX
94YBBZ		25.02000	-0.06235	-0.04	25.36000	0.76183	0.61	XX
AAXJN7		25.68040	0.59805	0.43	23.22560	-1.37257	-1.10	XX
ALBKKY	*	27.87400	2.79165	1.99	24.80600	0.20783	0.17	XX
BFLJKC		24.60000	-0.48235	-0.34	24.30000	-0.29817	-0.24	CE
FRH2J2		26.49200	1.40965	1.01	24.86200	0.26383	0.21	XX
J7NGV8		25.14000	0.05765	0.04	25.66000	1.06183	0.85	CE
L3NMFH		26.45200	1.36965	0.98	26.85200	2.25383	1.80	WZ
NWBQLR		25.00000	-0.08235	-0.06	24.78000	0.18183	0.15	XX
PB2YUR		25.91200	0.82965	0.59	26.12400	1.52583	1.22	CE
QTYQFC		25.95050	0.86815	0.62	27.12000	2.52183	2.02	XX
R72JKT		25.44000	0.35765	0.26	25.23400	0.63583	0.51	XX
RMM9BF		24.56000	-0.52235	-0.37	24.42000	-0.17817	-0.14	XX
TJ8YZW		26.98420	1.90185	1.36	25.06960	0.47143	0.38	CE
WPHJCJ		25.28700	0.20465	0.15	24.07660	-0.52157	-0.42	XX
X2PQNB	*	20.51000	-4.57235	-3.26	20.91000	-3.68817	-2.95	XX
XA4RTC		25.28600	0.20365	0.15	24.74600	0.14783	0.12	WZ
XTCRZQ		24.32000	-0.76235	-0.54	23.70000	-0.89817	-0.72	XX
Z3VVE4		25.42000	0.33765	0.24	24.62000	0.02183	0.02	XX

Summary Statistics	
Grand Means	25.082346 kJ/m ² 24.598167 kJ/m ²
Std Dev Btwn Labs	1.402529 kJ/m ² 1.249714 kJ/m ²
Statistics based on 24 of 24 reporting participants	

Sample Z25: ABS & Sample Z26: ABS

Plastics Interlaboratory Testing Program
Analysis 791
Notched Izod Impact - kJ/m²

Instrument Code List as Reported by the Labs

(CE) - Ceast

(IN) - Instron

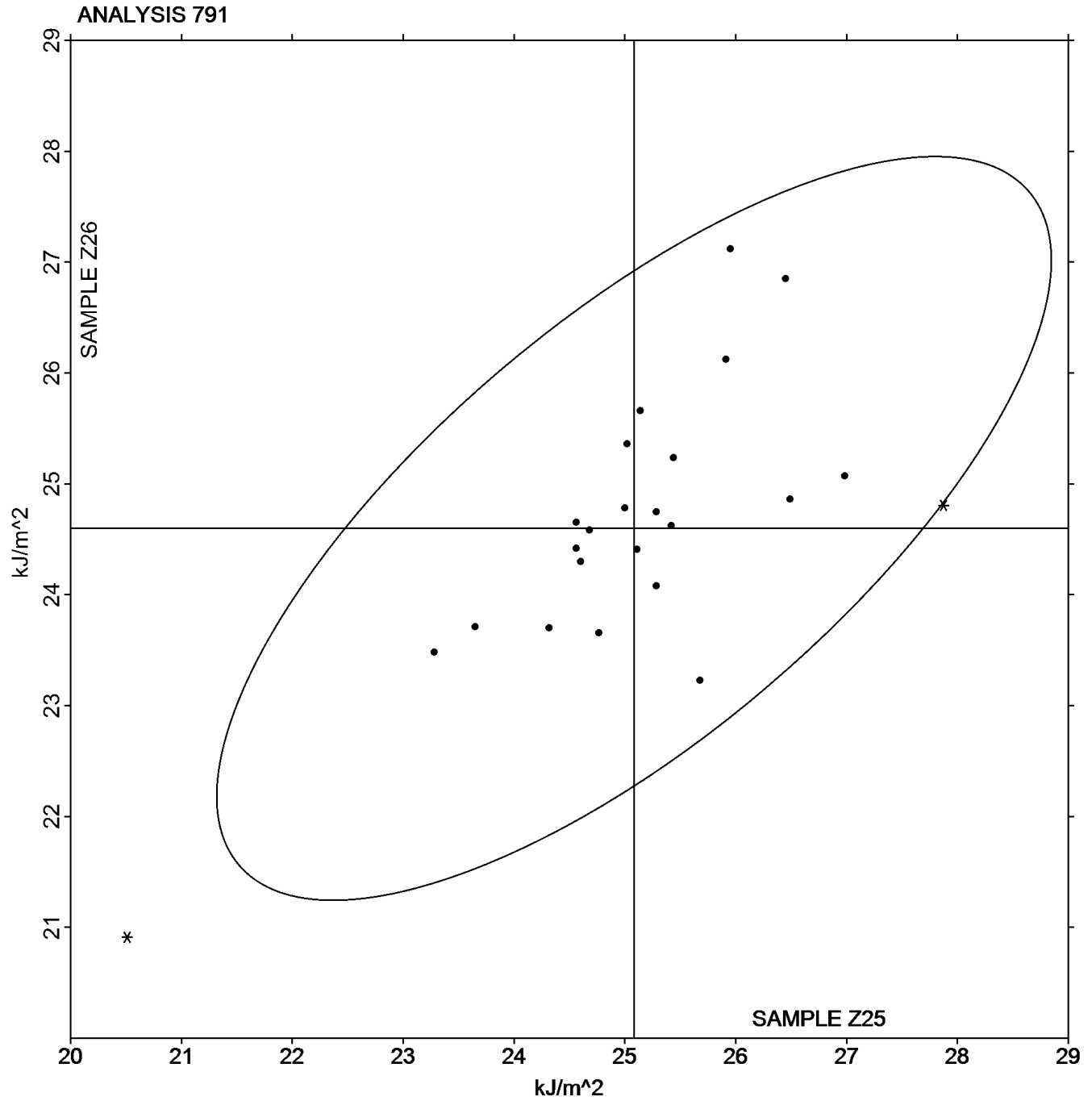
(TO) - Tinius Olsen

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program
Analysis 791
Notched Izod Impact - kJ/m²

Grand Mean Sample Z25: 25.082 kJ/m² Grand Mean Sample Z26: 24.598 kJ/m²



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/m²

WebCode	Data Flag	Sample M25			Sample M26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2XZDJP		21.62	-0.77	-0.84	21.58	-0.79	-0.87	TO
3XVGQ6	*	24.82	2.43	2.65	24.08	1.71	1.88	XX
3ZZ44A		23.52	1.13	1.23	23.53	1.16	1.27	TM
4L8VQZ		22.42	0.03	0.03	22.66	0.29	0.32	CE
4LRPDW		22.50	0.11	0.12	22.15	-0.22	-0.25	WZ
4LRR3Z		22.44	0.05	0.05	22.78	0.41	0.45	WZ
74KG7A		21.41	-0.98	-1.06	21.21	-1.16	-1.28	TO
7RBJJR		22.14	-0.25	-0.27	22.50	0.13	0.14	TO
7WP3V8		22.41	0.02	0.02	22.01	-0.36	-0.40	CE
8A9EDV		21.88	-0.51	-0.56	22.41	0.04	0.04	TY
9EULDF		22.45	0.06	0.06	22.25	-0.13	-0.14	TM
ALBKKY		22.18	-0.21	-0.23	21.76	-0.61	-0.67	TO
BFLJKC		22.34	-0.05	-0.05	23.60	1.23	1.35	CE
BQ3449		22.37	-0.02	-0.02	21.69	-0.68	-0.75	TM
DB27WU		21.56	-0.83	-0.90	21.51	-0.86	-0.95	TM
EDKMLT		24.32	1.93	2.10	24.41	2.04	2.24	CE
EHGC77		21.37	-1.02	-1.11	21.39	-0.98	-1.07	TO
FJ3HXG		24.22	1.83	1.99	24.14	1.77	1.94	WZ
FRH2J2		21.65	-0.74	-0.81	21.32	-1.05	-1.15	TO
GZ9W3H		22.32	-0.07	-0.08	22.06	-0.32	-0.35	CE
J9DVFB		22.04	-0.35	-0.38	21.82	-0.55	-0.61	CE
KFWDF6	*	22.14	-0.25	-0.27	23.76	1.39	1.52	CE
L3NMFH		21.14	-1.25	-1.36	21.63	-0.74	-0.82	WZ
L74HTU		20.66	-1.73	-1.88	20.95	-1.43	-1.57	TM
LGFU3H		23.08	0.69	0.75	22.76	0.39	0.43	CE
LN2KV6		21.42	-0.97	-1.06	22.83	0.46	0.50	TM
M8DPWM		22.48	0.09	0.10	22.70	0.33	0.36	CE
MEAQR8		22.66	0.27	0.29	22.73	0.36	0.39	WZ
NB79BQ		22.17	-0.22	-0.24	21.87	-0.51	-0.56	TM
NRQZT3		22.24	-0.15	-0.16	21.78	-0.59	-0.65	XX
PZK9C9		22.68	0.29	0.32	22.66	0.29	0.32	XX
Q3JDV7	X	17.66	-4.73	-5.15	17.34	-5.03	-5.53	TO

Plastics Interlaboratory Testing Program
Analysis 792
Notched Charpy Impact - kJ/m²

WebCode	Data Flag	Sample M25			Sample M26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
QGKVXR		21.60	-0.79	-0.86	21.62	-0.75	-0.83	IN
QP37CR		22.96	0.57	0.62	21.69	-0.68	-0.75	TO
QTYQFC		24.26	1.87	2.03	24.02	1.65	1.81	TM
R72JKT		21.22	-1.17	-1.27	21.28	-1.10	-1.20	XX
TJ8YZW		22.94	0.55	0.60	22.82	0.44	0.49	CE
VR7ND4	X	29.03	6.64	7.23	29.09	6.72	7.38	CE
XA4RTC		22.88	0.49	0.53	22.22	-0.15	-0.16	WZ
YGE9ZC		22.32	-0.07	-0.08	21.98	-0.39	-0.43	XX

Summary Statistics

Grand Means

22.390 kJ/m²22.372 kJ/m²

Std Dev Btwn Labs

0.918 kJ/m²0.911 kJ/m²

Statistics based on 38 of 40 reporting participants

Sample M25: HIPS & Sample M26: HIPS

Comments on assigned Data Flags for Test #792

Q3JDV7 (X) - Data for both samples are low.

VR7ND4 (X) - Data for both samples are high.

Instrument Code List as Reported by the Labs

(CE) - Ceast

(IN) - Instron

(TM) - TMI

(TO) - Tinius Olsen

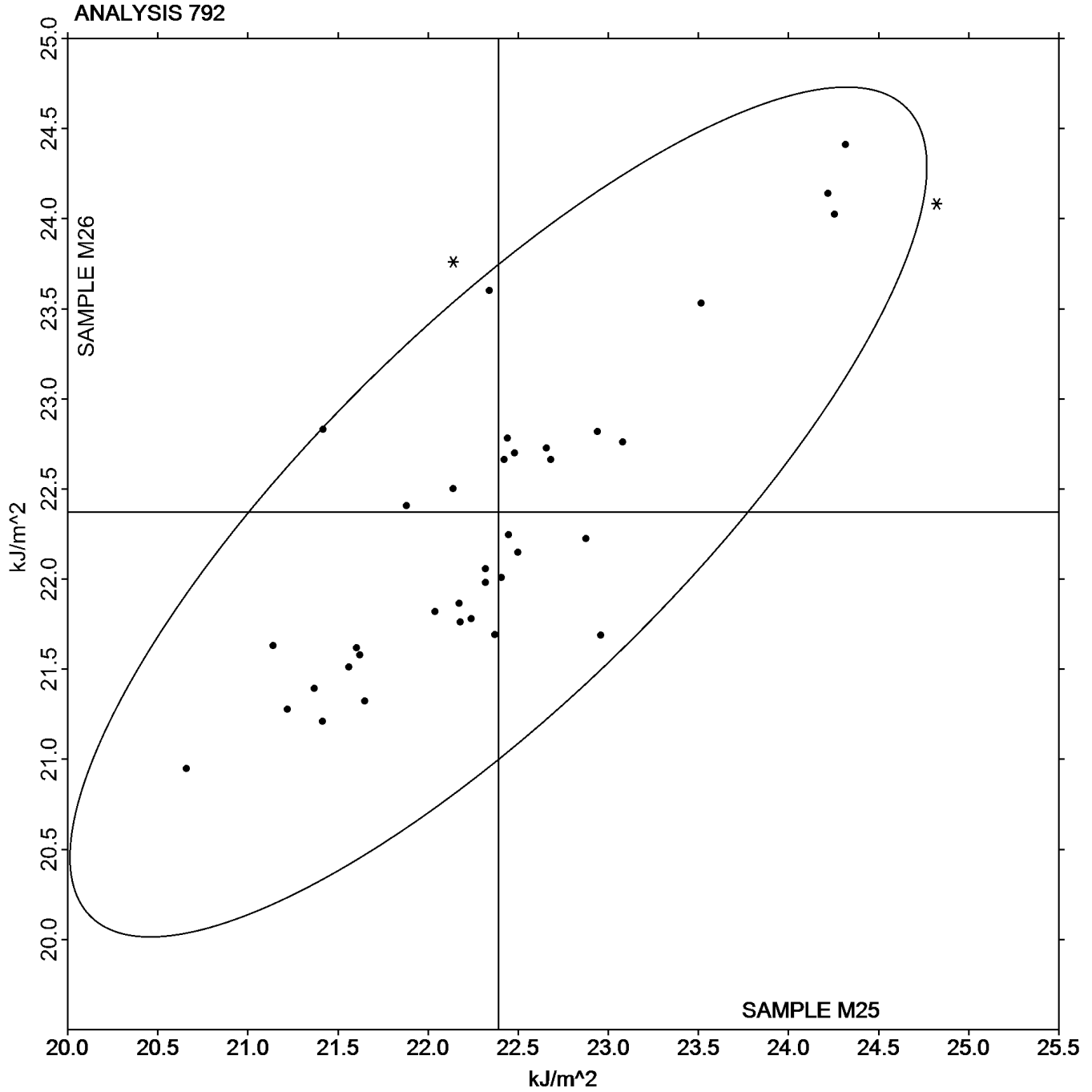
(TY) - Toyoseiki

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program
Analysis 792
Notched Charpy Impact - kJ/m²

Grand Mean Sample M25: 22.390 kJ/m² Grand Mean Sample M26: 22.372 kJ/m²



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 E25			Sample E26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
236JTZ		80.30	0.94	1.28	80.80	1.39	1.65	XX
3ZZ44A		79.25	-0.11	-0.15	79.30	-0.11	-0.13	CE
4WVXYM		79.58	0.21	0.29	79.60	0.19	0.23	CE
7BLGTG		78.60	-0.76	-1.04	78.58	-0.83	-0.99	TO
8A9EDV		79.28	-0.09	-0.12	79.40	-0.01	-0.01	TY
BFLJKC		80.08	0.71	0.97	80.03	0.62	0.73	DN
DB27WU		79.25	-0.11	-0.15	78.83	-0.58	-0.69	TO
DDRHP9		79.80	0.44	0.60	79.30	-0.11	-0.13	CE
DL2LZD	X	79.03	-0.34	-0.46	81.35	1.94	2.31	DN
EWJNX Y		80.28	0.91	1.25	81.11	1.70	2.02	XX
F4XQH7		80.13	0.76	1.04	79.80	0.39	0.46	AT
GNDQZ7		78.68	-0.69	-0.94	78.80	-0.61	-0.72	TO
GUKJU3		79.05	-0.31	-0.43	79.05	-0.36	-0.43	CE
KFWDF6		79.38	0.01	0.02	79.35	-0.06	-0.07	CE
L74HTU		77.98	-1.39	-1.90	77.65	-1.76	-2.09	CE
M8DPWM		78.58	-0.79	-1.08	78.64	-0.77	-0.92	TO
NB79BQ		78.70	-0.66	-0.91	79.10	-0.31	-0.37	CE
NFZ8JU		80.75	1.39	1.89	80.38	0.97	1.15	TO
QGKVXR		78.08	-1.29	-1.76	78.20	-1.21	-1.44	XA
QP37CR		78.95	-0.41	-0.56	78.83	-0.58	-0.69	RO
QTYQFC		80.20	0.84	1.14	80.53	1.12	1.33	AT
TH8VBT		80.10	0.74	1.01	80.40	0.99	1.18	DN
UQZLDE		79.05	-0.31	-0.43	79.78	0.37	0.44	CE
XA4RTC		79.90	0.54	0.73	80.00	0.59	0.70	AT
YGE9ZC		78.85	-0.51	-0.70	78.53	-0.88	-1.05	TO
ZH6WWC		79.33	-0.04	-0.05	79.28	-0.13	-0.16	TO

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

Summary Statistics	
Grand Means	
79.363 Degrees C	79.409 Degrees C
Std Dev Btwn Labs	
0.732 Degrees C	0.841 Degrees C
Statistics based on 25 of 26 reporting participants	

Sample E25: HIPS & Sample E26: HIPS

Comments on assigned Data Flags for Test #710

DL2LZD (X) - Inconsistent in testing between samples.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(DN) - DYNISCO

(RO) - Rosand

(TO) - Tinius Olsen

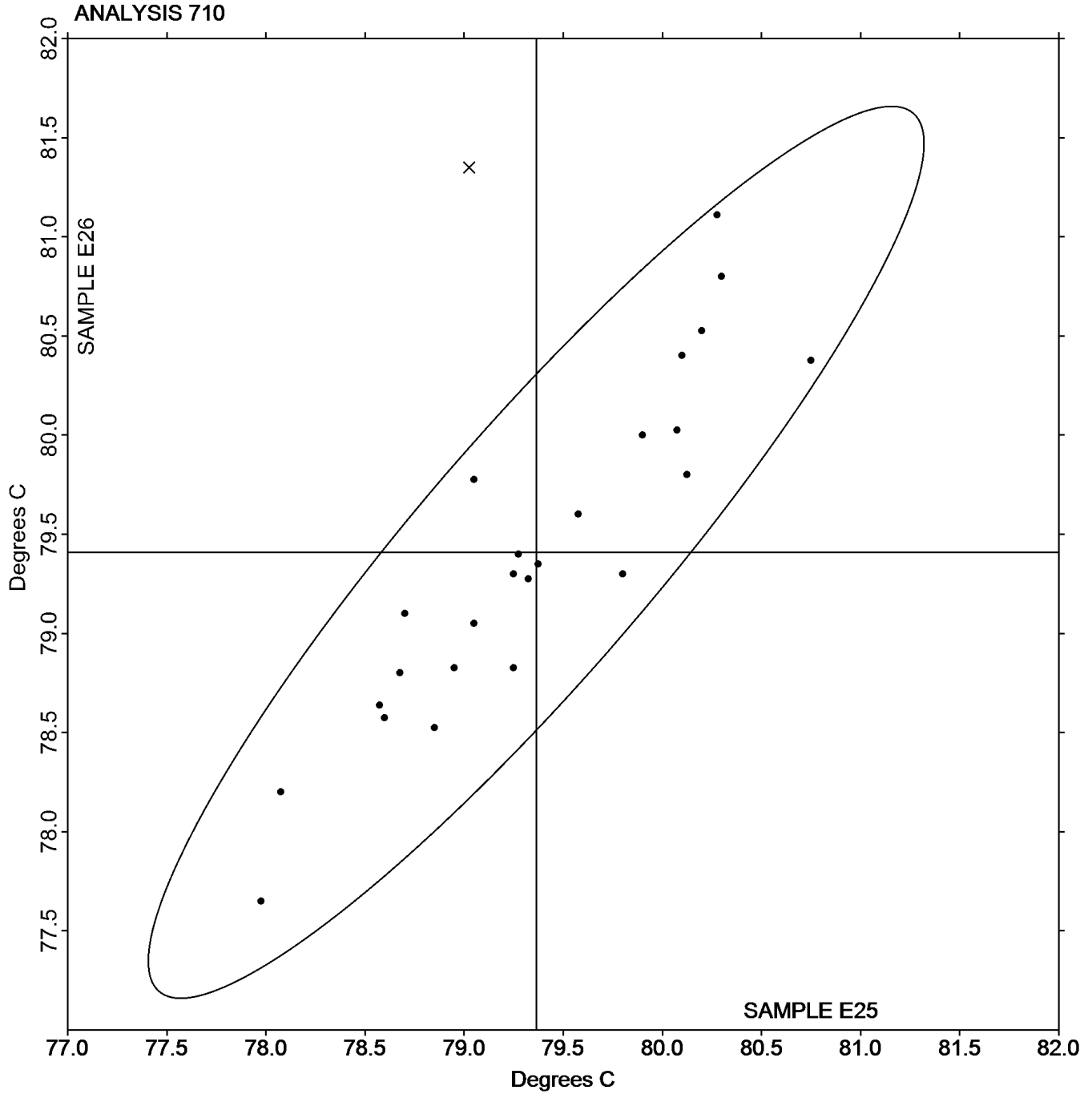
(TY) - Toyoseiki

(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 E25: 79.363 Degrees C Grand Mean Sample E26: 79.409 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 G25			Sample G26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
236JTZ		83.4	2.1	1.18	82.8	1.8	1.05	XX
7BLGTG		80.9	-0.3	-0.17	79.8	-1.1	-0.62	TO
8HXZJT		78.1	-3.1	-1.71	79.7	-1.2	-0.69	XX
DB27WU		80.2	-1.1	-0.59	79.1	-1.8	-1.02	TO
DDRHP9		82.8	1.5	0.85	82.7	1.8	1.00	CE
EWJNXY		78.8	-2.5	-1.36	77.8	-3.1	-1.79	XX
GNDQZ7		81.1	-0.1	-0.06	80.4	-0.5	-0.31	TO
J9DVFB		84.8	3.6	1.97	84.7	3.8	2.14	RO
KFWDF6		81.4	0.1	0.07	81.0	0.1	0.05	CE
M8DPWM		79.9	-1.3	-0.74	80.5	-0.4	-0.24	TO
NB79BQ	X	126.5	45.3	24.92	127.0	46.1	26.26	CE
RMM9BF		82.2	0.9	0.52	81.2	0.3	0.15	XX
XTCRZQ		81.0	-0.2	-0.11	81.0	0.1	0.05	XX
YGE9ZC		81.5	0.2	0.14	81.3	0.4	0.23	TO

Summary Statistics			
Grand Means	81.23	Degrees C	80.91 Degrees C
Std Dev Btwn Labs	1.82	Degrees C	1.76 Degrees C
Statistics based on 13 of 14 reporting participants			

Sample G25: PP & Sample G26: PP

Comments on assigned Data Flags for Test #711

NB79BQ (X) - Data for both samples are high.

Instrument Code List as Reported by the Labs

(CE) - Ceast

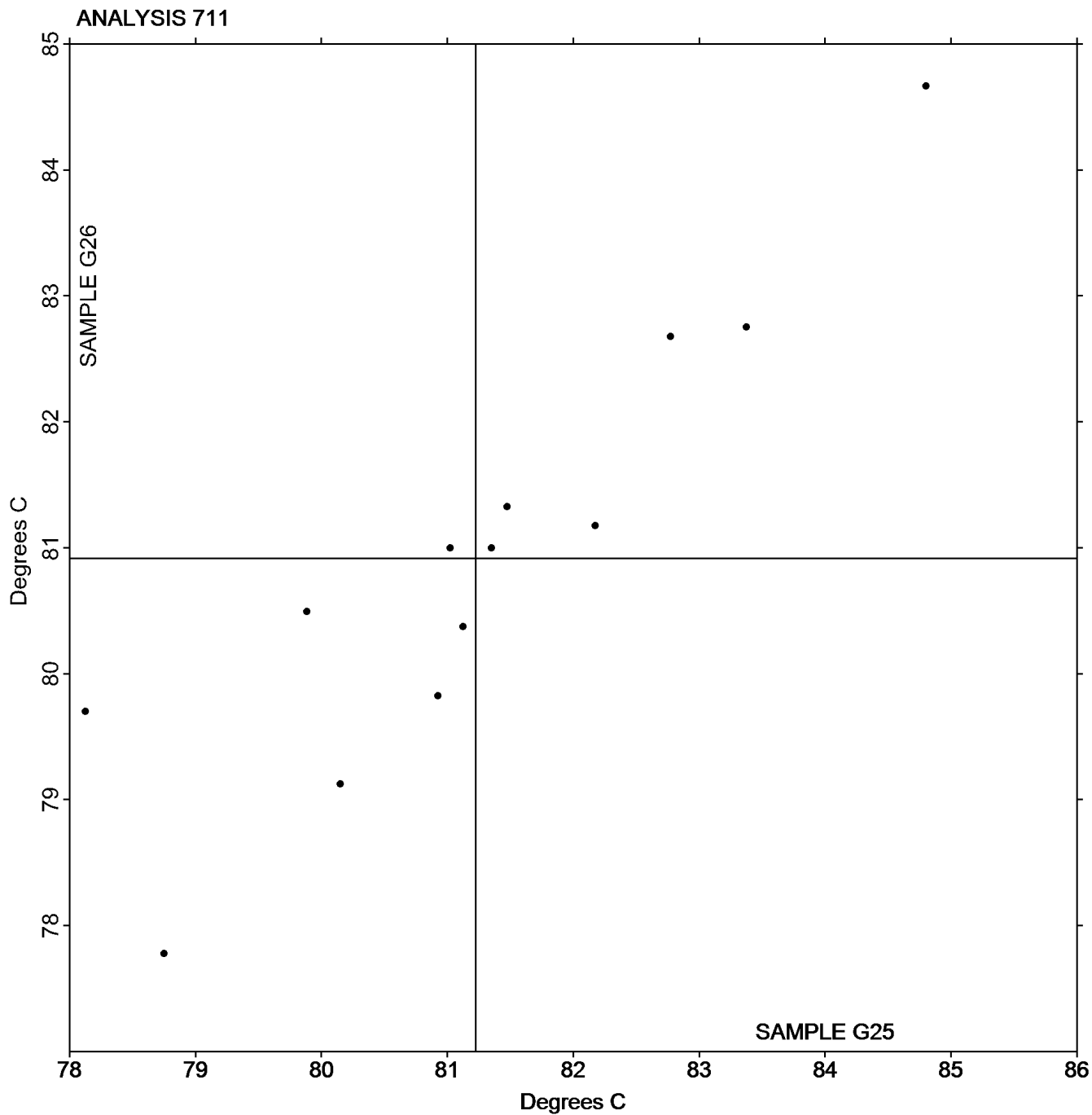
(RO) - Rosand

(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 G25: 81.226 Degrees C Grand Mean Sample G26: 80.914 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 N25			Sample N26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2XZDJP		77.13	-0.99	-0.77	76.83	-1.12	-0.82	AT
4LRR3Z		78.78	0.66	0.51	78.75	0.81	0.59	CE
74KG7A	*	78.38	0.26	0.20	77.13	-0.82	-0.60	RO
7BLGTG		78.00	-0.12	-0.09	78.30	0.36	0.26	TO
7WP3V8	X	78.00	-0.12	-0.09	75.85	-2.09	-1.53	CE
8A9EDV		77.83	-0.29	-0.23	77.65	-0.29	-0.21	TY
ALBKKY		77.45	-0.67	-0.52	76.98	-0.97	-0.71	CE
EHGC77	X	72.73	-5.39	-4.18	71.48	-6.47	-4.74	CE
EUUC3Z		78.70	0.58	0.45	79.00	1.06	0.78	CE
FRH2J2		76.90	-1.22	-0.95	76.55	-1.39	-1.02	CE
GNDQZ7		79.45	1.33	1.03	79.28	1.33	0.98	TO
GZ9W3H		78.53	0.41	0.31	78.08	0.13	0.10	TY
J7NGV8		81.15	3.03	2.35	80.93	2.98	2.19	CE
J9DVFB		77.47	-0.65	-0.51	77.57	-0.37	-0.27	CF
L3NMFH		76.90	-1.22	-0.95	76.05	-1.89	-1.39	CE
L74HTU		75.48	-2.64	-2.05	75.40	-2.54	-1.86	IN
LBCMME		76.63	-1.49	-1.16	76.45	-1.49	-1.09	CE
LGFU3H		78.80	0.68	0.53	78.55	0.61	0.45	AT
M8DPWM		76.85	-1.27	-0.99	76.88	-1.07	-0.78	TO
MEAQR8		78.45	0.33	0.26	78.03	0.08	0.06	CF
NB79BQ		77.20	-0.92	-0.71	77.58	-0.37	-0.27	CE
NWBQLR		77.83	-0.29	-0.23	77.40	-0.54	-0.40	AT
PB2YUR		76.50	-1.62	-1.26	76.80	-1.14	-0.84	CE
PZK9C9		79.23	1.11	0.86	78.98	1.03	0.76	XX
QTYQFC		78.30	0.18	0.14	78.25	0.31	0.23	AT
R72JKT		79.68	1.56	1.21	79.45	1.51	1.11	AT
RYK6J9		78.25	0.13	0.10	78.05	0.11	0.08	AT
TH8VBT		78.38	0.26	0.20	78.70	0.76	0.56	DN
TJ8YZW		77.63	-0.49	-0.38	77.30	-0.64	-0.47	CE
X2PQNB		79.80	1.68	1.30	80.22	2.28	1.67	RO
XA4RTC		78.65	0.53	0.41	78.08	0.13	0.10	AT
XYLV68		81.20	3.08	2.39	81.38	3.43	2.52	ZW

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

WebCode	Data Flag	Sample N25			Sample N26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
YAD43Z		76.70	-1.42	-1.10	76.33	-1.62	-1.19	TO
YXZW9L		76.75	-1.37	-1.06	76.58	-1.37	-1.00	CE
Z3VVE4		79.03	0.91	0.70	78.63	0.68	0.50	XX

Summary Statistics

Grand Means

78.119 Degrees C

77.941 Degrees C

Std Dev Btwn Labs

1.289 Degrees C

1.363 Degrees C

Statistics based on 33 of 35 reporting participants

Sample N25: ABS/PC & Sample N26: ABS/PC

Comments on assigned Data Flags for Test #712

7WP3V8 (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.

EHGC77 (X) - Data for both samples are low. Also Inconsistent in testing within both samples.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(CF) - Coesfeld

(DN) - DYNISCO

(IN) - Instron

(RO) - Rosand

(TO) - Tinius Olsen

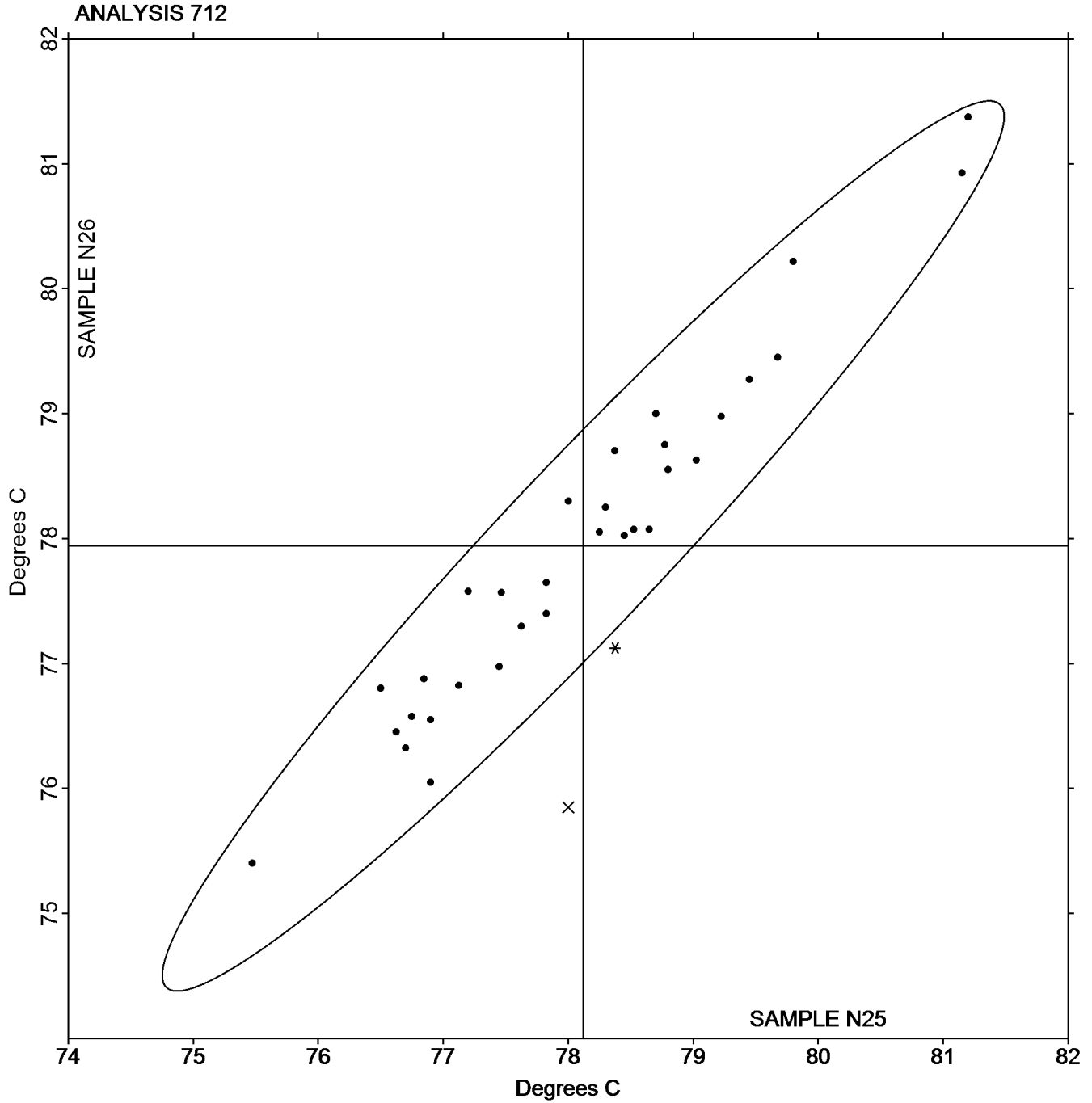
(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

(ZW) - Zwick

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

Grand Mean Sample N25: 78.119 Degrees C Grand Mean Sample N26: 77.941 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 H25			Sample H26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
29WGP4		105.58	0.15	0.17	105.73	0.32	0.38	XX
2HM3V3		106.40	0.96	1.09	106.10	0.68	0.83	CE
2XZDJP		104.45	-0.99	-1.11	104.32	-1.10	-1.33	AT
4LRR3Z		106.83	1.40	1.58	106.55	1.13	1.37	CF
4WVXYM		105.68	0.25	0.28	105.77	0.35	0.42	CE
74KG7A		104.67	-0.77	-0.87	104.62	-0.80	-0.96	RO
8A9EDV		104.58	-0.85	-0.96	104.98	-0.43	-0.52	TY
9EULDF		104.97	-0.47	-0.53	104.93	-0.48	-0.58	CE
BFLJKC		104.85	-0.59	-0.66	104.78	-0.63	-0.76	DN
DL2LZD		105.82	0.38	0.43	105.85	0.43	0.52	DN
EHFEVB		105.02	-0.42	-0.47	104.75	-0.67	-0.80	CE
GNDQZ7		105.27	-0.17	-0.19	105.12	-0.30	-0.36	TO
GUKJU3		106.65	1.21	1.37	106.02	0.60	0.73	CE
J9DVFB		106.43	1.00	1.13	106.37	0.95	1.15	CF
JH3GLA		104.25	-1.19	-1.34	104.27	-1.15	-1.39	CE
K8XTA3		105.87	0.43	0.49	105.97	0.55	0.67	CE
KFWDF6		105.12	-0.32	-0.36	105.15	-0.27	-0.32	CE
MBC3GR		104.60	-0.84	-0.94	104.73	-0.68	-0.82	CE
NB79BQ		105.25	-0.19	-0.21	105.22	-0.20	-0.24	CE
QP37CR		105.07	-0.37	-0.42	104.90	-0.52	-0.62	RO
QTYQFC		105.57	0.13	0.15	105.67	0.25	0.30	AT
W6TXXN		103.82	-1.62	-1.83	103.87	-1.55	-1.87	TO
X2PQNB		105.60	0.16	0.18	106.04	0.62	0.75	RO
XA4RTC		105.98	0.55	0.62	106.40	0.98	1.19	CF
XYLV68		107.58	2.15	2.43	107.30	1.88	2.28	WZ

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

Summary Statistics

Grand Means

105.436 Degrees C

105.415 Degrees C

Std Dev Btwn Labs

0.885 Degrees C

0.828 Degrees C

Statistics based on 25 of 25 reporting participants

Sample H25: ABS & Sample H26: ABS

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(CF) - Coesfeld

(DN) - DYNISCO

(RO) - Rosand

(TO) - Tinius Olsen

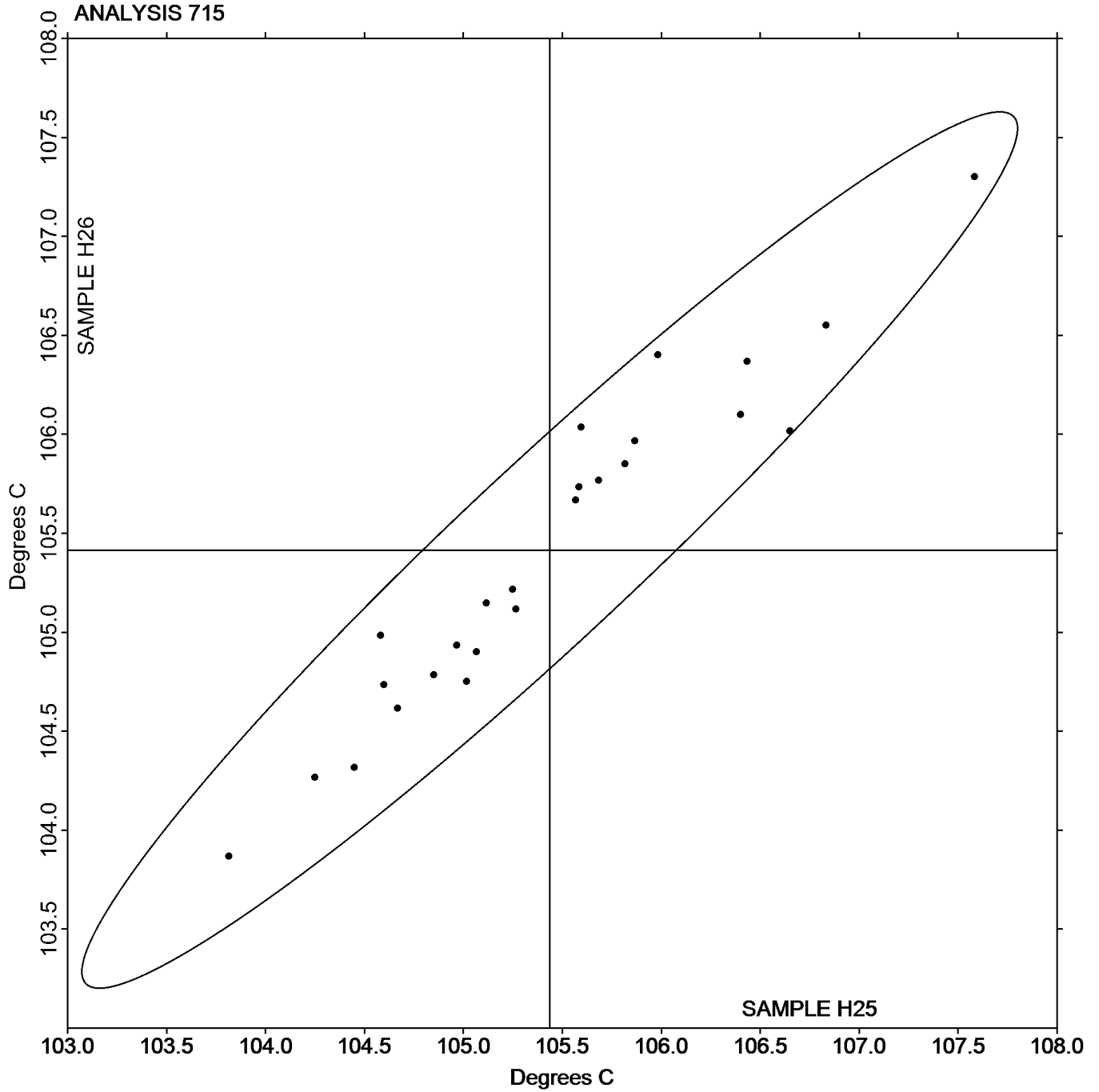
(TY) - Toyoseiki

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample H25: 105.44 Degrees C Grand Mean Sample H26: 105.42 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 R25			Sample R26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
29WGP4		107.33	0.32	0.26	107.13	0.18	0.16	XX
2XZDJP		106.92	-0.10	-0.08	106.85	-0.10	-0.09	AT
4LRR3Z		107.82	0.80	0.65	107.60	0.65	0.56	CF
4WVXYM		107.55	0.54	0.44	107.53	0.58	0.50	CE
74KG7A		106.50	-0.51	-0.41	106.00	-0.95	-0.82	XX
8A9EDV		107.45	0.44	0.35	107.87	0.92	0.79	TY
9EULDF		107.27	0.26	0.21	107.27	0.32	0.28	CE
BFLJKC		106.93	-0.08	-0.06	106.73	-0.22	-0.19	DN
DDRHP9		105.75	-1.26	-1.02	105.97	-0.98	-0.85	CE
DL2LZD		109.08	2.07	1.68	109.12	2.17	1.86	DN
EHFEVB		106.80	-0.21	-0.17	106.62	-0.33	-0.29	CE
GKJRR3		106.37	-0.65	-0.52	106.72	-0.23	-0.20	TO
GNDQZ7		106.40	-0.61	-0.50	106.38	-0.57	-0.49	TO
GUKJU3		108.30	1.29	1.04	108.00	1.05	0.90	CE
J9DVFB		104.50	-2.51	-2.03	104.73	-2.22	-1.91	CF
JH3GLA		105.35	-1.66	-1.35	105.23	-1.72	-1.48	CE
KFWDF6		106.46	-0.55	-0.45	106.48	-0.47	-0.41	CE
M8DPWM		106.85	-0.16	-0.13	106.93	-0.02	-0.02	TO
MBC3GR		106.62	-0.40	-0.32	106.40	-0.55	-0.47	CE
QP37CR		107.03	0.02	0.02	106.57	-0.38	-0.33	RO
QTYQFC		107.47	0.45	0.37	107.55	0.60	0.52	AT
W6TXXN		105.33	-1.68	-1.36	105.33	-1.62	-1.39	TO
X2PQNB		107.51	0.50	0.40	107.78	0.83	0.71	RO
XA4RTC		106.98	-0.03	-0.02	106.83	-0.12	-0.10	CF
XYLV68	*	110.73	3.72	3.01	110.15	3.20	2.75	WZ

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

Summary Statistics

Grand Means	107.012 Degrees C	106.951 Degrees C
Std Dev Btwn Labs	1.236 Degrees C	1.162 Degrees C
Statistics based on 25 of 25 reporting participants		

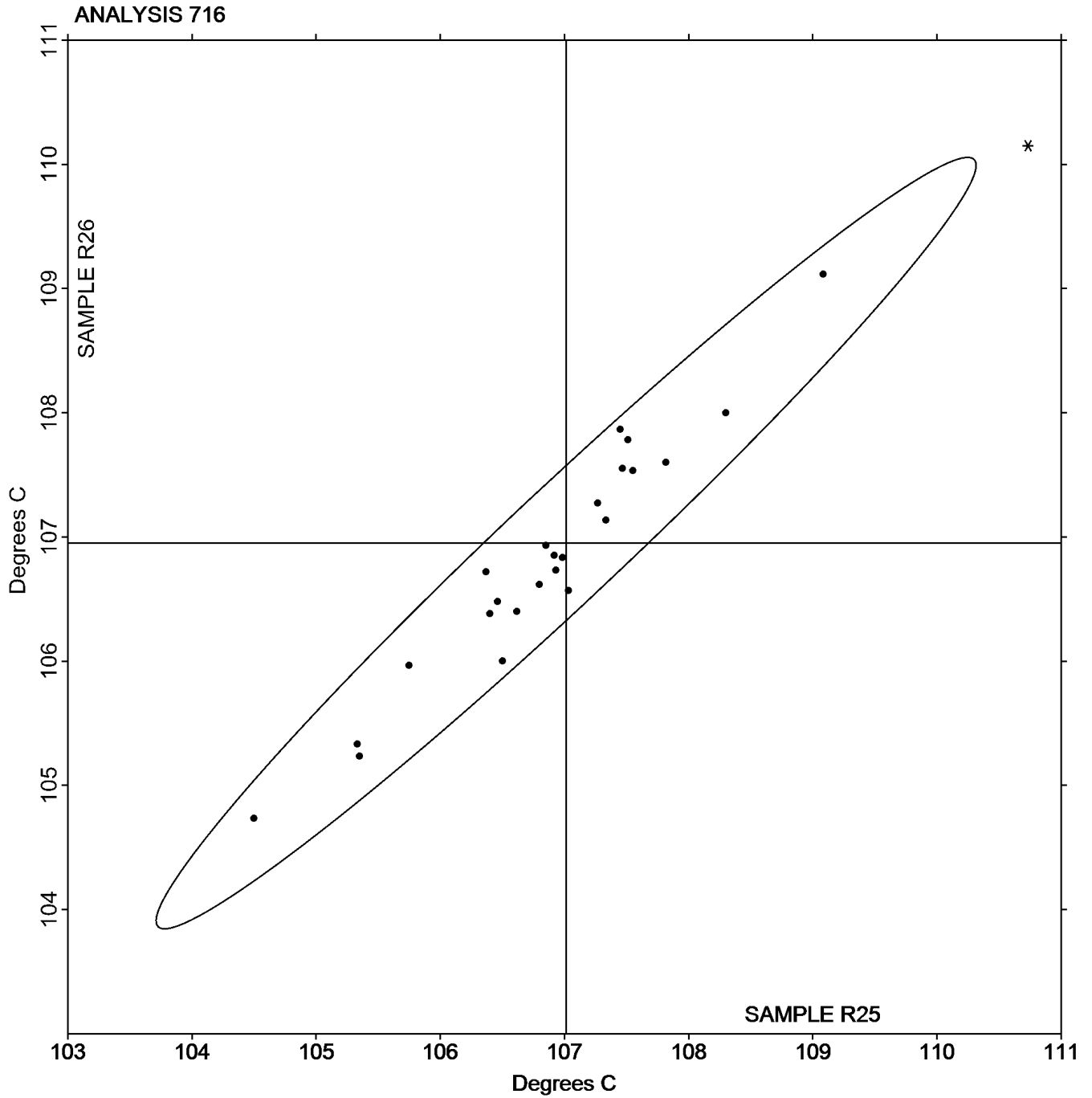
Sample R25: ABS & Sample R26: ABS

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 R25: 107.01 Degrees C Grand Mean Sample R26: 106.95 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 X25			Sample X26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
236JTZ		5.69	0.30	1.33	5.71	0.31	1.23	KA
2XZDJP		5.40	0.02	0.07	5.25	-0.15	-0.60	TO
3MUX64	X	5.85	0.47	2.04	6.65	1.25	4.95	TO
3XVGQ6		5.65	0.27	1.16	5.70	0.30	1.18	TO
42627P		5.35	-0.03	-0.15	5.25	-0.15	-0.60	TO
43YLWV		5.60	0.22	0.94	5.55	0.15	0.59	AT
462Q7B		5.40	0.02	0.07	5.60	0.20	0.79	DY
4LRR3Z		5.38	-0.01	-0.04	5.45	0.04	0.17	WZ
4WVXYM		5.78	0.39	1.71	5.92	0.52	2.05	WZ
6BRCYG		4.98	-0.41	-1.77	4.90	-0.50	-1.98	CE
6RC88X		5.60	0.22	0.94	5.60	0.20	0.79	TO
7BLGTG		5.56	0.17	0.76	5.44	0.04	0.15	KA
7VCKJP	X	6.36	0.97	4.25	6.38	0.98	3.89	CE
83TNXV		5.51	0.12	0.53	5.48	0.08	0.31	TO
883PD8		5.05	-0.33	-1.46	4.97	-0.43	-1.70	XX
8A9EDV		5.54	0.16	0.68	5.64	0.24	0.94	TY
8UWUZW		5.45	0.06	0.28	5.55	0.14	0.57	CE
8VQER3		5.39	0.01	0.03	5.47	0.06	0.25	WZ
8ZM49A		5.25	-0.13	-0.58	5.40	0.00	-0.01	TO
97NKEA	X	4.85	-0.54	-2.35	4.54	-0.87	-3.43	TO
9GP3W4		5.17	-0.22	-0.95	4.96	-0.45	-1.77	TO
AAXJN7	X	14.02	8.64	37.70	13.83	8.43	33.38	TO
ALBKKY		5.07	-0.32	-1.38	4.94	-0.46	-1.82	TO
B3EFFH	*	5.05	-0.33	-1.46	4.80	-0.60	-2.38	DY
BFLJKC		5.31	-0.08	-0.34	5.39	-0.01	-0.05	DY
BNHYPK		5.40	0.02	0.07	5.55	0.15	0.59	TO
C7BFBT		5.25	-0.13	-0.58	5.35	-0.05	-0.21	KA
CGVQGD	X	10.40	5.02	21.89	10.60	5.20	20.60	TO
CQFY3L		5.61	0.23	1.01	5.57	0.16	0.65	TO
CZ4ZBJ		5.13	-0.25	-1.11	5.22	-0.19	-0.74	XX
D7TNX2		5.62	0.23	1.01	5.65	0.24	0.96	TO
DB27WU	*	5.60	0.22	0.94	5.90	0.50	1.97	TO

Analysis 750

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

WebCode	Data Flag	Sample X25			Sample X26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
DDRHP9		5.40	0.02	0.07	5.45	0.05	0.19	CE
DPWK3P		5.52	0.13	0.58	5.51	0.11	0.42	TO
EDKMLT		5.20	-0.18	-0.80	5.15	-0.25	-1.00	XX
EHGC77		5.30	-0.08	-0.36	5.40	0.00	-0.01	TO
EK6QQA		5.71	0.32	1.40	5.46	0.06	0.23	DY
EWJNXY		5.20	-0.18	-0.80	5.20	-0.20	-0.80	XX
FFA9XG		5.45	0.07	0.29	5.30	-0.10	-0.40	XX
FJ3HXG		5.65	0.26	1.16	5.70	0.30	1.19	DY
FRH2J2		5.16	-0.22	-0.96	5.25	-0.15	-0.61	TO
G66TGB		4.90	-0.48	-2.11	4.91	-0.49	-1.95	TO
GKJRR3	X	12.65	7.27	31.70	13.05	7.65	30.30	TO
GUKJU3		5.10	-0.28	-1.24	5.00	-0.40	-1.59	CE
HEPATH	*	5.93	0.55	2.40	5.83	0.43	1.71	DY
J3D9V4		5.65	0.27	1.18	5.68	0.28	1.12	TO
J7NGV8		5.23	-0.15	-0.67	5.20	-0.20	-0.80	WZ
J9DVFB		5.00	-0.38	-1.67	5.05	-0.36	-1.41	XX
K6T47U		5.64	0.25	1.10	5.67	0.27	1.06	DY
KFWDF6		5.34	-0.04	-0.19	5.33	-0.08	-0.30	DY
L3NMFH		5.55	0.16	0.72	5.54	0.14	0.56	GO
L74HTU		5.35	-0.03	-0.15	5.20	-0.20	-0.80	TO
LLRL9B		5.33	-0.05	-0.23	5.48	0.07	0.29	XX
LMN9UE		5.49	0.11	0.46	5.46	0.05	0.21	TO
M8DPWM		5.61	0.23	0.99	5.42	0.02	0.07	TO
MBC3GR		5.65	0.27	1.16	5.70	0.30	1.18	TO
MEAQR8		5.39	0.00	0.01	5.36	-0.05	-0.18	GO
NB79BQ		5.32	-0.07	-0.30	5.38	-0.03	-0.11	TO
PB2YUR		5.25	-0.13	-0.58	5.35	-0.05	-0.21	KA
PEE646		4.93	-0.45	-1.97	4.93	-0.48	-1.88	TO
PQH7VG		5.20	-0.18	-0.80	5.50	0.10	0.39	TO
PZK9C9		5.45	0.06	0.27	5.43	0.02	0.09	XX
QP37CR		5.45	0.07	0.29	5.55	0.15	0.59	TO
QTYQFC		5.74	0.35	1.54	5.82	0.42	1.66	TO

Analysis 750

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

WebCode	Data Flag	Sample X25			Sample X26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
QV2XCA		5.15	-0.23	-1.02	5.20	-0.20	-0.80	XX
R72JKT		5.40	0.01	0.05	5.48	0.07	0.29	TO
RRHYZZ		5.30	-0.08	-0.36	5.60	0.20	0.79	DY
T4TNFG		5.30	-0.08	-0.36	5.32	-0.08	-0.32	DY
TH8VBT		5.30	-0.08	-0.36	5.30	-0.10	-0.40	TO
TJ8YZW	*	6.07	0.69	3.01	6.04	0.64	2.52	TO
U2KXNR		5.43	0.05	0.20	5.26	-0.15	-0.58	DY
UGFCQ7		5.35	-0.03	-0.15	5.45	0.05	0.19	TO
UJYC3F		5.61	0.23	0.99	5.43	0.03	0.11	TO
UQZLDE		5.46	0.08	0.34	5.73	0.33	1.29	TO
UTPW7T		5.41	0.02	0.09	5.52	0.11	0.45	WZ
VK6HD8		5.25	-0.13	-0.58	5.50	0.10	0.39	TO
WBYQTJ		5.35	-0.03	-0.15	5.27	-0.13	-0.52	WZ
WD6CH6		5.52	0.14	0.60	5.34	-0.06	-0.24	TO
X4RQN8		5.15	-0.23	-1.02	5.31	-0.10	-0.38	TO
XA4RTC		5.13	-0.26	-1.13	5.37	-0.04	-0.15	TO
XYLV68		5.21	-0.18	-0.78	5.23	-0.18	-0.70	GO
YGE9ZC		5.46	0.08	0.34	5.43	0.02	0.10	CS
YQ2C3J		5.50	0.12	0.51	5.45	0.05	0.19	TO
YXN6DJ		5.32	-0.06	-0.28	5.18	-0.22	-0.88	XX
YXZW9L		5.30	-0.08	-0.36	5.45	0.05	0.19	TO
Z3VVE4		4.90	-0.48	-2.11	4.95	-0.45	-1.79	DY

Summary Statistics	
Grand Means	5.384 grams/10 mins
Std Dev Btwn Labs	0.229 grams/10 mins
	5.402 grams/10 mins
	0.252 grams/10 mins
Statistics based on 80 of 86 reporting participants	

Sample X25: LDPE & Sample X26: LDPE

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

Comments on assigned Data Flags for Test #750

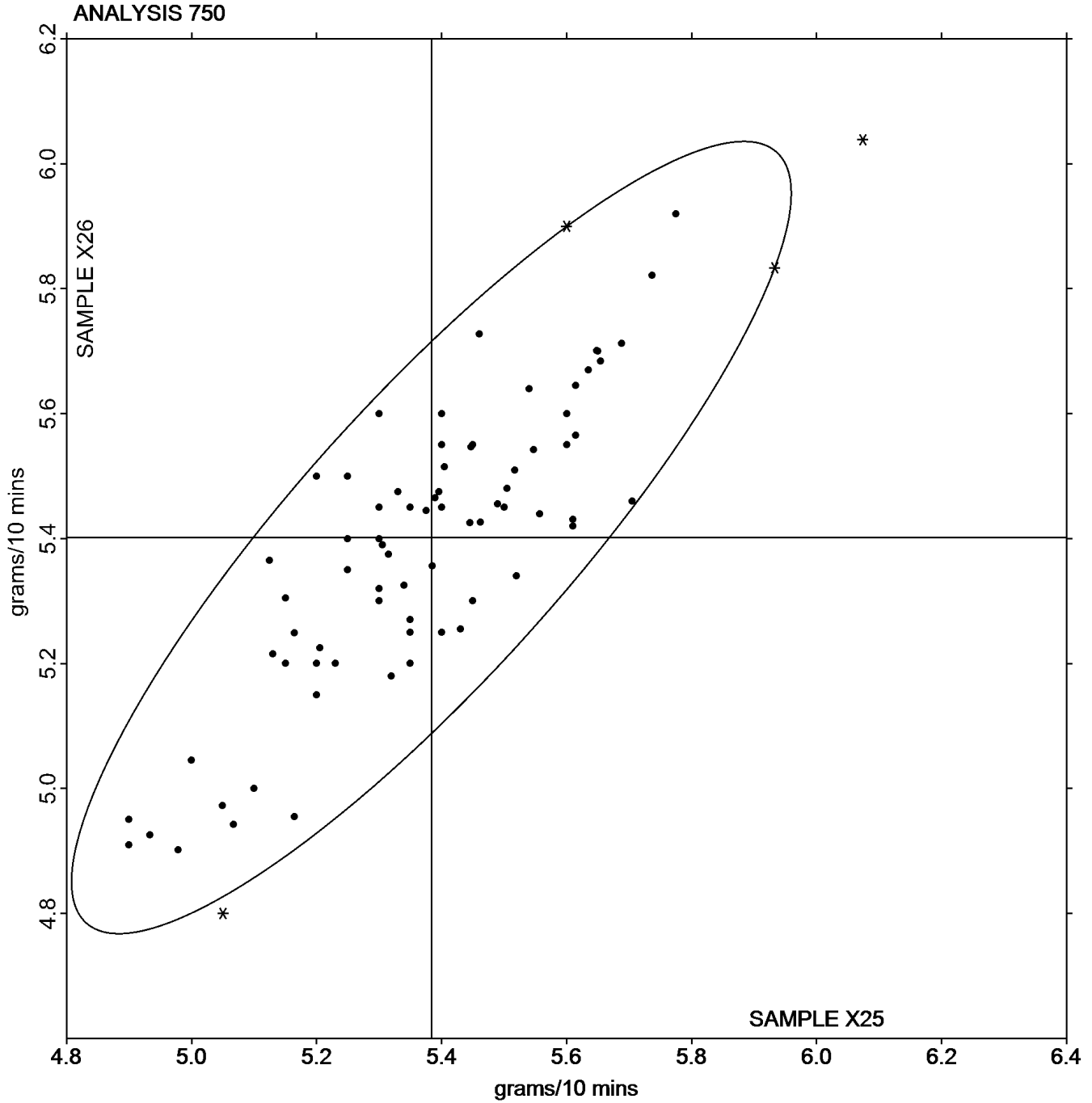
- 3MUX64 (X) - Inconsistent in testing between samples, data for Sample X26 are high.
7VCKJP (X) - Data for both samples are high.
97NKEA (X) - Inconsistent in testing between samples, data for Sample X26 are low.
AAXJN7 (X) - Data for both samples are high.
CGVQGD (X) - Data for both samples are high. Also inconsistent in testing within Sample X26.
GKJRR3 (X) - Data for both samples are high.

Instrument Code List as Reported by the Labs

- | | |
|---------------------|---|
| (AT) - Atlas | (CE) - Ceast |
| (CS) - CSI | (DY) - Dynisco |
| (GO) - Gottfert | (KA) - Kayeness |
| (TO) - Tinius Olsen | (TY) - Toyoseiki Seisakusho |
| (WZ) - Zwick | (XX) - Instrument manufacturer not specified by lab |

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

Grand Mean Sample X25: 5.3835 grams/10 mins Grand Mean Sample X26: 5.4017 grams/10 mins



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

Plastics Interlaboratory Testing Program

Analysis 718

Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T25			Sample T26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
236JTZ		1.03487	0.00170	1.03	1.03510	0.00186	1.11	XX
24Y6J7		1.03303	-0.00013	-0.08	1.03383	0.00059	0.35	XX
2UC9H6	X	0.92347	-0.10970	-66.29	0.89863	-0.13461	-80.49	XX
2XZDJP		1.03460	0.00143	0.87	1.03377	0.00053	0.31	XX
37NQXE		1.03170	-0.00147	-0.89	1.03187	-0.00137	-0.82	XX
3ZZ44A		1.03380	0.00063	0.38	1.03437	0.00113	0.67	XX
42627P		1.03000	-0.00317	-1.91	1.02967	-0.00357	-2.14	XX
462Q7B		1.03520	0.00203	1.23	1.03523	0.00199	1.19	XX
4BEE2Y		1.03133	-0.00183	-1.11	1.03133	-0.00191	-1.14	XX
4FQ7JD		1.03300	-0.00017	-0.10	1.03133	-0.00191	-1.14	XX
6BRCYG		1.03343	0.00027	0.16	1.03387	0.00063	0.37	XX
6ETK27		1.03367	0.00050	0.30	1.03400	0.00076	0.45	XX
6JZ7UA		1.03470	0.00153	0.93	1.03457	0.00133	0.79	XX
6P8NZZ		1.03323	0.00007	0.04	1.03423	0.00099	0.59	XX
6QM08X		1.03203	-0.00113	-0.68	1.03193	-0.00131	-0.78	XX
7BLGTG		1.03307	-0.00010	-0.06	1.03347	0.00023	0.14	XX
7M3463		1.03383	0.00067	0.40	1.03477	0.00153	0.91	XX
7WP3V8		1.03347	0.00030	0.18	1.03507	0.00183	1.09	XX
8A9EDV		1.03327	0.00010	0.06	1.03340	0.00016	0.10	XX
8PXJLN		1.03373	0.00057	0.34	1.03353	0.00029	0.18	XX
8ZM49A		1.03083	-0.00233	-1.41	1.03137	-0.00187	-1.12	XX
94YBBZ		1.03190	-0.00127	-0.77	1.03103	-0.00221	-1.32	XX
A2JMWR		1.03357	0.00040	0.24	1.03353	0.00029	0.18	XX
ADGENR		1.03283	-0.00033	-0.20	1.03223	-0.00101	-0.60	XX
ALBKKY	X	1.02533	-0.00783	-4.73	1.02867	-0.00457	-2.73	XX
B3EFFH		1.03463	0.00147	0.89	1.03520	0.00196	1.17	XX
BFLJKC		1.03500	0.00183	1.11	1.03467	0.00143	0.85	XX
BQ3449		1.03473	0.00157	0.95	1.03447	0.00123	0.73	XX
C7BFBT		1.02993	-0.00323	-1.95	1.03107	-0.00217	-1.30	XX
CJEU3P		1.03447	0.00130	0.79	1.03520	0.00196	1.17	XX
CMJDCJ		1.03503	0.00187	1.13	1.03483	0.00159	0.95	XX
CQFY3L		1.03413	0.00097	0.58	1.03420	0.00096	0.57	XX

Plastics Interlaboratory Testing Program

Analysis 718

Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T25			Sample T26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
DB27WU		1.03443	0.00127	0.77	1.03420	0.00096	0.57	XX
DDRHP9		1.02983	-0.00333	-2.01	1.02980	-0.00344	-2.06	XX
EHGC77		1.03420	0.00103	0.62	1.03380	0.00056	0.33	XX
EWJNXY	X	1.03083	-0.00233	-1.41	1.02727	-0.00597	-3.57	XX
F4XQH7	*	1.03507	0.00190	1.15	1.03300	-0.00024	-0.14	XX
F7ZRH4		1.03400	0.00083	0.50	1.03300	-0.00024	-0.14	XX
FJ3HXG		1.03443	0.00127	0.77	1.03383	0.00059	0.35	XX
FRH2J2	X	1.02667	-0.00650	-3.93	1.02767	-0.00557	-3.33	XX
G66TGB	X	1.03400	0.00083	0.50	1.03100	-0.00224	-1.34	XX
GCL4WW		1.03398	0.00081	0.49	1.03471	0.00147	0.88	XX
GF4ERF		1.03433	0.00117	0.71	1.03400	0.00076	0.45	XX
GNDQZ7		1.03367	0.00050	0.30	1.03367	0.00043	0.25	XX
GW3MGE		1.03467	0.00150	0.91	1.03477	0.00153	0.91	XX
HEPATH		1.03253	-0.00063	-0.38	1.03340	0.00016	0.10	XX
HNFVYF		1.03543	0.00227	1.37	1.03553	0.00229	1.37	XX
HNTC9M	X	1.03753	0.00437	2.64	1.03103	-0.00221	-1.32	XX
J9DVFB	X	1.03600	0.00283	1.71	1.02850	-0.00474	-2.83	XX
K6T47U	*	1.02860	-0.00457	-2.76	1.02980	-0.00344	-2.06	XX
K9XNZL		1.03393	0.00077	0.46	1.03470	0.00146	0.87	XX
KARARR		1.03268	-0.00048	-0.29	1.03329	0.00005	0.03	XX
KFWDF6		1.03303	-0.00013	-0.08	1.03177	-0.00147	-0.88	XX
L3NMFH		1.03300	-0.00017	-0.10	1.03367	0.00043	0.25	XX
L74HTU		1.03383	0.00067	0.40	1.03383	0.00059	0.35	XX
LBCMME		1.03390	0.00073	0.44	1.03360	0.00036	0.21	XX
LGFU3H		1.03127	-0.00190	-1.15	1.03097	-0.00227	-1.36	XX
LRJTRJ		1.03180	-0.00137	-0.83	1.03213	-0.00111	-0.66	XX
M8DPWM		1.03397	0.00080	0.48	1.03230	-0.00094	-0.56	XX
MAGM2N		1.03000	-0.00317	-1.91	1.03100	-0.00224	-1.34	XX
MBC3GR		1.03553	0.00237	1.43	1.03563	0.00239	1.43	XX
MWUDHP		1.03137	-0.00180	-1.09	1.03195	-0.00129	-0.77	XX
NB79BQ		1.03363	0.00047	0.28	1.03440	0.00116	0.69	XX
NDUHMC		1.03400	0.00083	0.50	1.03300	-0.00024	-0.14	XX

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

WebCode	Data Flag	Sample T25			Sample T26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
NFZ8JU		1.02990	-0.00327	-1.97	1.02943	-0.00381	-2.28	XX
NXZZRM		1.03501	0.00184	1.11	1.03412	0.00088	0.53	XX
P3N7KF		1.03423	0.00107	0.64	1.03367	0.00043	0.25	XX
PYVXJU		1.03257	-0.00060	-0.36	1.03250	-0.00074	-0.44	XX
PZK9C9		1.03430	0.00113	0.69	1.03487	0.00163	0.97	XX
QTYQFC		1.03367	0.00050	0.30	1.03373	0.00049	0.29	XX
QX79K7	*	1.02950	-0.00367	-2.22	1.02890	-0.00434	-2.60	XX
R346VH	*	1.03367	0.00050	0.30	1.03567	0.00243	1.45	XX
R72JKT		1.03400	0.00083	0.50	1.03400	0.00076	0.45	XX
RYK6J9		1.03400	0.00083	0.50	1.03467	0.00143	0.85	XX
T49C9V		1.03357	0.00040	0.24	1.03347	0.00023	0.14	XX
T4TNFG		1.03247	-0.00070	-0.42	1.03257	-0.00067	-0.40	XX
TGHKHE		1.03187	-0.00130	-0.79	1.03333	0.00009	0.06	XX
TH8VBT		1.03483	0.00167	1.01	1.03500	0.00176	1.05	XX
TJ8YZW		1.03467	0.00150	0.91	1.03563	0.00239	1.43	XX
UQZLDE	X	1.02843	-0.00473	-2.86	1.03107	-0.00217	-1.30	XX
V6URJF		1.03308	-0.00008	-0.05	1.03428	0.00104	0.62	XX
VR7ND4		1.03043	-0.00273	-1.65	1.02980	-0.00344	-2.06	XX
XA4RTC		1.03487	0.00170	1.03	1.03367	0.00043	0.25	XX
XYLV68		1.03047	-0.00270	-1.63	1.03087	-0.00237	-1.42	XX
Y2N7K8		1.03367	0.00050	0.30	1.03367	0.00043	0.25	XX
YGE9ZC		1.03473	0.00157	0.95	1.03407	0.00083	0.49	XX
YXZW9L		1.03160	-0.00157	-0.95	1.03150	-0.00174	-1.04	XX
Z6LAPY		1.02933	-0.00383	-2.32	1.03033	-0.00291	-1.74	XX
ZH6WWC		1.03500	0.00183	1.11	1.03533	0.00209	1.25	XX
ZVF6Y4		1.03203	-0.00113	-0.68	1.03177	-0.00147	-0.88	XX

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

Summary Statistics	
Grand Means	1.033166 sp gr 23/23 C
	1.033240 sp gr 23/23 C
Std Dev Btwn Labs	0.001655 sp gr 23/23 C
	0.001672 sp gr 23/23 C
Statistics based on 82 of 90 reporting participants	

Sample T25: HIPS & Sample T26: HIPS

Comments on assigned Data Flags for Test #718

2UC9H6 (X) - Data for both samples are low. Also Inconsistent in testing within both samples.

ALBKKY (X) - Inconsistent in testing between samples, data for Sample T26 are low. Also Inconsistent in testing within both samples.

EWJNXY (X) - Inconsistent in testing between samples, data for Sample T26 are low. Also Inconsistent in testing within both samples.

FRH2J2 (X) - Data for both samples are low.

G66TGB (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.

HNTC9M (X) - Inconsistent in testing between samples and inconsistent in testing within Sample T26.

J9DVFB (X) - Inconsistent in testing between samples, data for Sample T26 are low.

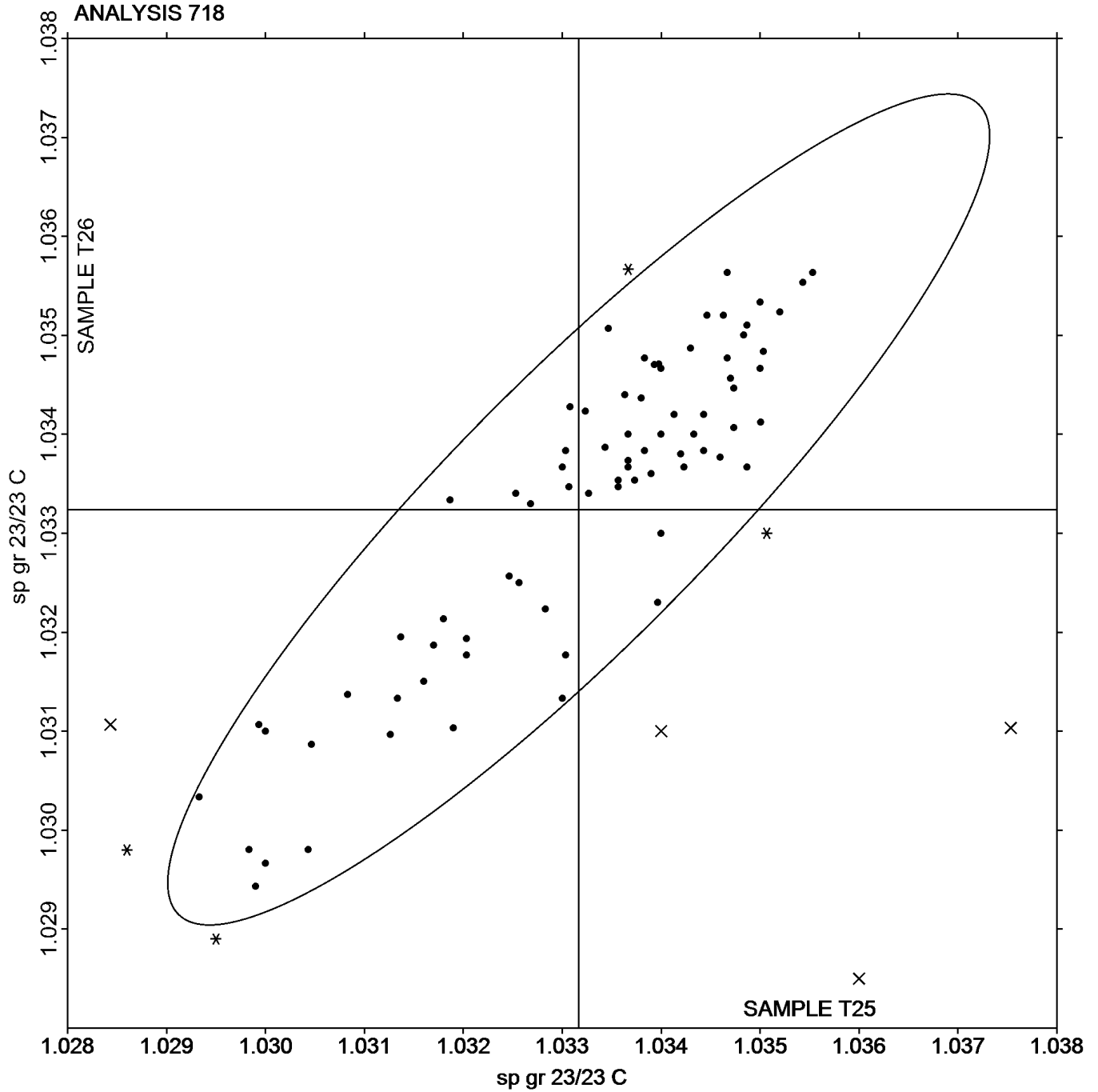
UQZLDE (X) - Inconsistent in testing between samples, data for Sample T25 are low.

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 T25: 1.0332 sp gr 23/23 C Grand Mean Sample T26: 1.0332 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 L25			Sample L26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2XZDJP		15.195	0.045	0.56	15.190	0.044	0.84	XX
3MUX64		15.259	0.109	1.37	15.193	0.048	0.91	XX
3ZZ44A		15.070	-0.080	-1.00	15.110	-0.036	-0.68	XX
462Q7B		15.170	0.020	0.25	15.105	-0.041	-0.78	XX
4LRR3Z		15.145	-0.005	-0.06	15.015	-0.131	-2.49	XX
6BRCYG	*	15.165	0.015	0.19	15.010	-0.136	-2.58	XX
7BLGTG		15.138	-0.012	-0.15	15.094	-0.052	-0.99	XX
ALBKKY		15.050	-0.101	-1.26	15.128	-0.018	-0.34	XX
B3EFFH		15.175	0.025	0.31	15.175	0.029	0.56	XX
BFLJKC		15.155	0.005	0.06	15.115	-0.031	-0.58	XX
C7BFBT		15.150	0.000	0.00	15.185	0.039	0.75	XX
CGVQGD	X	16.150	1.000	12.52	16.050	0.904	17.21	XX
CQFY3L		15.180	0.030	0.38	15.195	0.049	0.94	XX
CWLVP8		15.185	0.035	0.44	15.190	0.044	0.84	XX
DB27WU		15.185	0.035	0.44	15.105	-0.041	-0.78	XX
EHGC77		15.220	0.070	0.88	15.220	0.074	1.41	XX
EMNUDL		15.250	0.100	1.25	15.130	-0.016	-0.30	XX
EUUC3Z		15.110	-0.040	-0.50	15.180	0.034	0.65	XX
EWJNXY		15.225	0.075	0.94	15.050	-0.096	-1.82	XX
F4XQH7		15.215	0.065	0.81	15.125	-0.021	-0.39	XX
FJ3HXG		15.135	-0.015	-0.19	15.150	0.004	0.08	XX
FRH2J2		14.995	-0.156	-1.95	15.136	-0.010	-0.19	XX
HNTC9M		15.255	0.105	1.31	15.170	0.024	0.46	XX
J3D9V4		15.155	0.005	0.06	15.190	0.044	0.84	XX
J7NGV8		15.050	-0.100	-1.25	15.160	0.014	0.27	XX
J9DVFB	X	15.300	0.150	1.88	15.330	0.184	3.51	XX
K6T47U		15.155	0.005	0.06	15.205	0.059	1.13	XX
KD2WY2		15.210	0.060	0.75	15.210	0.064	1.22	XX
KFWDF6	*	15.060	-0.090	-1.13	15.265	0.119	2.27	XX
L3NMFH		15.135	-0.015	-0.19	15.120	-0.026	-0.49	XX
L74HTU	X	0.901	-14.249	-178.40	0.922	-14.224	-270.75	XX
M8DPWM	*	14.985	-0.165	-2.07	15.210	0.064	1.22	XX

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

WebCode	Data Flag	Sample L25			Sample L26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
MBC3GR		15.155	0.005	0.06	15.170	0.024	0.46	XX
NDVGGK		15.175	0.024	0.31	15.146	0.000	0.01	XX
NFZ8JU		15.235	0.085	1.06	15.190	0.044	0.84	XX
NWBQLR		15.075	-0.075	-0.94	15.175	0.029	0.56	XX
PZK9C9		15.175	0.025	0.31	15.180	0.034	0.65	XX
QTYQFC		15.029	-0.121	-1.51	15.096	-0.050	-0.96	XX
R72JKT		15.225	0.075	0.94	15.140	-0.006	-0.11	XX
RMM9BF		15.080	-0.070	-0.88	15.095	-0.051	-0.97	XX
TH8VBT	X	15.630	0.480	6.01	15.560	0.414	7.89	XX
TJ8YZW	*	14.945	-0.205	-2.56	15.058	-0.088	-1.67	XX
U2KXNR		15.115	-0.035	-0.44	15.160	0.014	0.27	XX
UGFCQ7		15.230	0.080	1.00	15.165	0.019	0.37	XX
UQZLDE		15.245	0.095	1.19	15.136	-0.010	-0.18	XX
VR7ND4		15.241	0.090	1.13	15.193	0.047	0.89	XX
X4RQN8		15.205	0.055	0.69	15.135	-0.011	-0.20	XX
XA4RTC		14.985	-0.165	-2.07	15.080	-0.066	-1.25	XX
YXN6DJ		15.255	0.105	1.31	15.115	-0.031	-0.58	XX
YXZW9L		15.150	0.000	0.00	15.135	-0.011	-0.20	XX
Z3VVE4	X	14.830	-0.320	-4.01	14.730	-0.416	-7.91	XX
ZMV9PM		15.155	0.005	0.06	15.150	0.004	0.08	XX

Summary Statistics			
Grand Means	15.1500	Percent	15.1457
			Percent
Std Dev Btwn Labs	0.0799	Percent	0.0525
			Percent
Statistics based on 47 of 52 reporting participants			

Sample L25: PBT & Sample L26: PBT

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

Comments on assigned Data Flags for Test #757

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

J9DVFB (X) - Data for Sample L26 are high.

L74HTU (X) - Data for both samples are low.

TH8VBT (X) - Data for both samples are high.

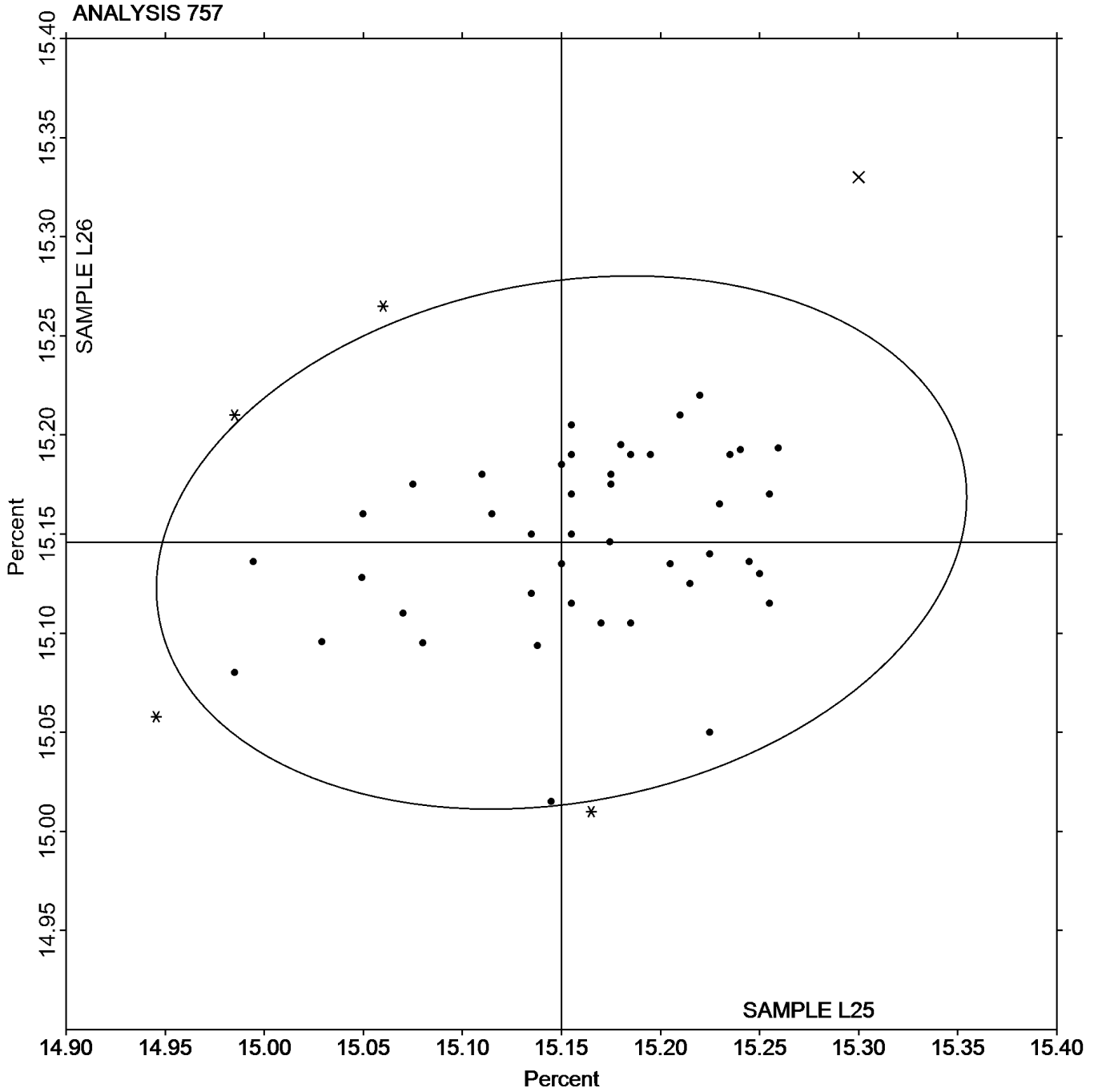
Z3VVE4 (X) - Data for both samples are low.

Instrument Code List as Reported by the Labs

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

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

Grand Mean Sample L25: 15.150 Percent Grand Mean Sample L26: 15.146 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 B25			Sample B26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
36TBHC		1,704	93	0.78	1,708	111	0.98	IN
7RUD99		1,766	155	1.31	1,710	113	1.01	IN
8UWUZW		1,542	-68	-0.58	1,551	-45	-0.40	IN
94YBBZ		1,523	-88	-0.74	1,539	-57	-0.51	IN
AWR9FX		1,705	94	0.80	1,646	50	0.44	TH
AYZJAG		1,648	38	0.32	1,659	63	0.56	SH
DDRHP9		1,716	105	0.89	1,662	66	0.58	MT
EK6QQA		1,691	81	0.68	1,704	108	0.96	XX
GNDQZ7		1,372	-239	-2.02	1,329	-267	-2.37	MT
K8XTA3		1,450	-160	-1.36	1,494	-103	-0.91	IN
LGFU3H		1,636	25	0.21	1,616	19	0.17	IM
LTCVJT		1,528	-83	-0.70	1,490	-107	-0.95	IN
NB79BQ		1,728	117	0.99	1,715	119	1.05	IN
TRYGE7		1,542	-69	-0.58	1,527	-69	-0.61	IN

Summary Statistics

Grand Means

1,610.8 psi

1,596.6 psi

Std Dev Btwn Labs

118.3 psi

112.8 psi

Statistics based on 14 of 14 reporting participants

Sample B25: LDPE & Sample B26: LDPE

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

(MT) - MTS/Sintech

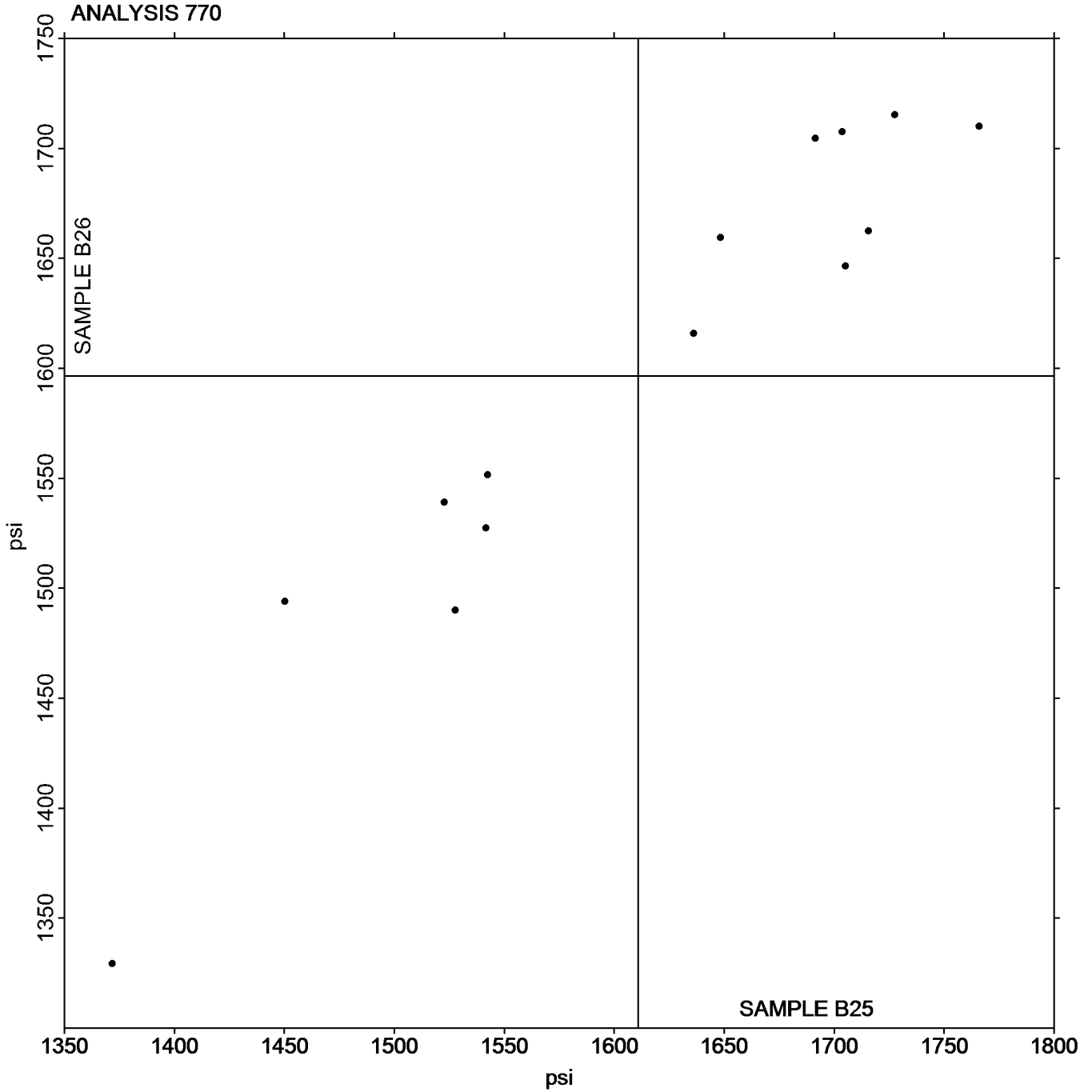
(SH) - Shimadzu

(TH) - Thwing Albert

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B25: 1,610.80 psi Grand Mean Sample B26: 1,596.61 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 B25			Sample B26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
36TBHC		3,053	64	0.26	3,238	155	0.76	IN
7RUD99		3,122	134	0.54	3,263	179	0.88	IN
8UWUZW		3,000	11	0.05	3,169	86	0.42	IN
94YBBZ		3,049	60	0.24	3,090	7	0.03	IN
AWR9FX		2,795	-193	-0.78	3,010	-73	-0.36	TH
AYZJAG		2,932	-57	-0.23	2,902	-181	-0.90	SH
CZ4ZBJ		3,552	563	2.28	3,526	443	2.19	WZ
DDRHP9		2,979	-9	-0.04	2,994	-89	-0.44	MT
EK6QQA		2,850	-138	-0.56	2,727	-356	-1.76	SH
GNDQZ7		3,075	86	0.35	3,207	124	0.61	MT
K8XTA3		2,812	-176	-0.71	2,918	-165	-0.81	IN
LGFU3H		2,505	-484	-1.96	2,875	-209	-1.03	IM
LLRL9B		3,492	504	2.04	3,384	300	1.48	WZ
LTCVJT		3,047	58	0.23	3,225	141	0.70	IN
MBC3GR		3,164	175	0.71	3,212	129	0.64	IN
NB79BQ		2,781	-208	-0.84	3,087	4	0.02	IN
T49C9V		2,745	-244	-0.99	2,842	-241	-1.19	IN
TRYGE7		3,030	41	0.17	3,001	-82	-0.41	IN
Z6LAPY		2,803	-186	-0.75	2,912	-171	-0.85	XX

Summary Statistics	
Grand Means	2,988.7 psi 3,083.1 psi
Std Dev Btwn Labs	247.4 psi 202.8 psi
Statistics based on 19 of 19 reporting participants	

Sample B25: LDPE & Sample B26: LDPE

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

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

(MT) - MTS/Sintech

(SH) - Shimadzu

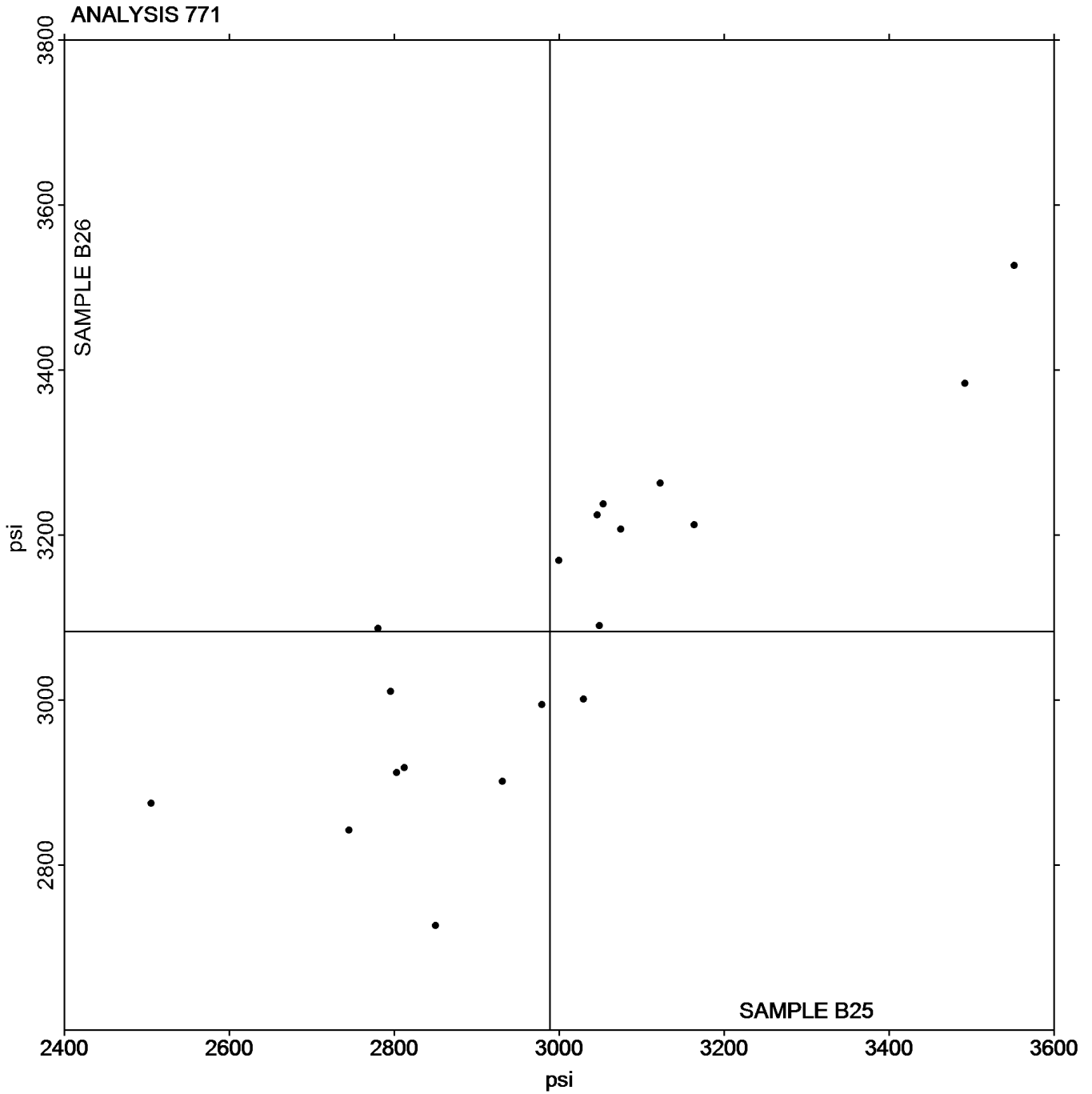
(TH) - Thwing Albert

(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 B25: 2,988.72 psi Grand Mean Sample B26: 3,083.13 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 B25			Sample B26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
36TBHC		51.22	22.01	1.21	51.32	23.29	1.46	IN
7RUD99	*	64.05	34.84	1.91	48.13	20.10	1.26	IN
8UWUZW		9.54	-19.67	-1.08	10.08	-17.95	-1.13	IN
94YBBZ		10.49	-18.72	-1.03	10.55	-17.48	-1.10	IN
AYZJAG		29.55	0.34	0.02	33.23	5.20	0.33	SH
DDRHP9		20.57	-8.64	-0.47	20.06	-7.97	-0.50	MT
EK6QQA		21.96	-7.25	-0.40	21.72	-6.31	-0.40	SH
GNDQZ7		6.01	-23.20	-1.27	5.55	-22.48	-1.41	MT
K8XTA3		29.46	0.25	0.01	30.64	2.61	0.16	IN
LGFU3H		24.80	-4.41	-0.24	25.34	-2.69	-0.17	IM
LTCVJT		55.16	25.95	1.42	52.33	24.30	1.53	IN
NB79BQ		18.60	-10.61	-0.58	17.06	-10.97	-0.69	IN
TRYGE7		38.31	9.10	0.50	38.38	10.35	0.65	IN

Summary Statistics			
Grand Means	29.210	Percent	28.030
			Percent
Stnd Dev Btwn Labs	18.233	Percent	15.921
			Percent
Statistics based on 13 of 13 reporting participants			

Sample B25: LDPE & Sample B26: LDPE

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

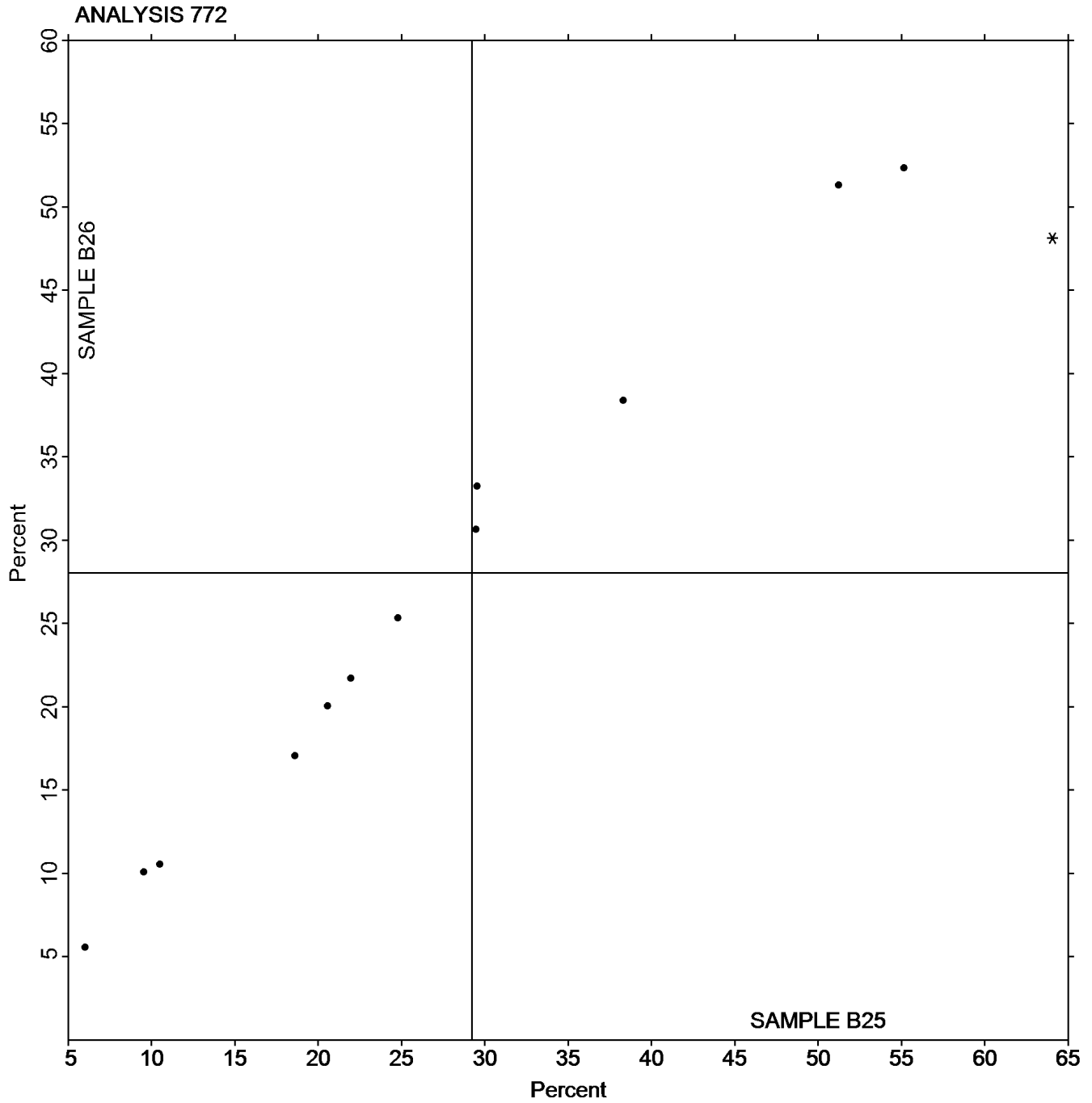
(IN) - Instron

(MT) - MTS/Sintech

(SH) - Shimadzu

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

Grand Mean Sample B25: 29.210 Percent Grand Mean Sample B26: 28.030 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 B25			Sample B26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
36TBHC		635.7	-110.1	-0.62	669.8	-106.9	-0.63	IN
7RUD99		610.4	-135.5	-0.76	683.2	-93.4	-0.55	IN
8UWUZW		622.6	-123.3	-0.70	654.9	-121.7	-0.72	IN
94YBBZ		878.9	133.1	0.75	910.5	133.9	0.79	IN
AWR9FX		556.4	-189.4	-1.07	634.1	-142.5	-0.84	TH
AYZJAG		1,096.1	350.3	1.98	1,119.3	342.7	2.01	SH
CZ4ZBJ		641.0	-104.8	-0.59	639.0	-137.7	-0.81	WZ
DDRHP9		707.7	-38.1	-0.22	772.8	-3.8	-0.02	MT
EK6QQA		921.9	176.1	0.99	882.6	106.0	0.62	XX
GNDQZ7		584.8	-161.0	-0.91	620.8	-155.8	-0.92	MT
K8XTA3		1,008.9	263.1	1.48	1,036.9	260.3	1.53	IN
LGFU3H		926.4	180.6	1.02	910.3	133.7	0.79	IM
LLRL9B		575.4	-170.4	-0.96	580.2	-196.5	-1.15	WZ
LTCVJT		602.1	-143.8	-0.81	630.2	-146.5	-0.86	IN
MBC3GR		915.6	169.8	0.96	969.4	192.8	1.13	IN
NB79BQ		602.8	-143.0	-0.81	637.2	-139.4	-0.82	IN
T49C9V		550.0	-195.8	-1.10	584.0	-192.6	-1.13	IN
TRYGE7		921.7	175.9	0.99	931.3	154.7	0.91	IN
Z6LAPY		812.4	66.6	0.38	889.3	112.7	0.66	XX

Summary Statistics			
Grand Means	745.83	Percent	776.61 Percent
Stnd Dev Btwn Labs	177.30	Percent	170.15 Percent
Statistics based on 19 of 19 reporting participants			

Sample B25: LDPE & Sample B26: LDPE

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

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

(MT) - MTS/Sintech

(SH) - Shimadzu

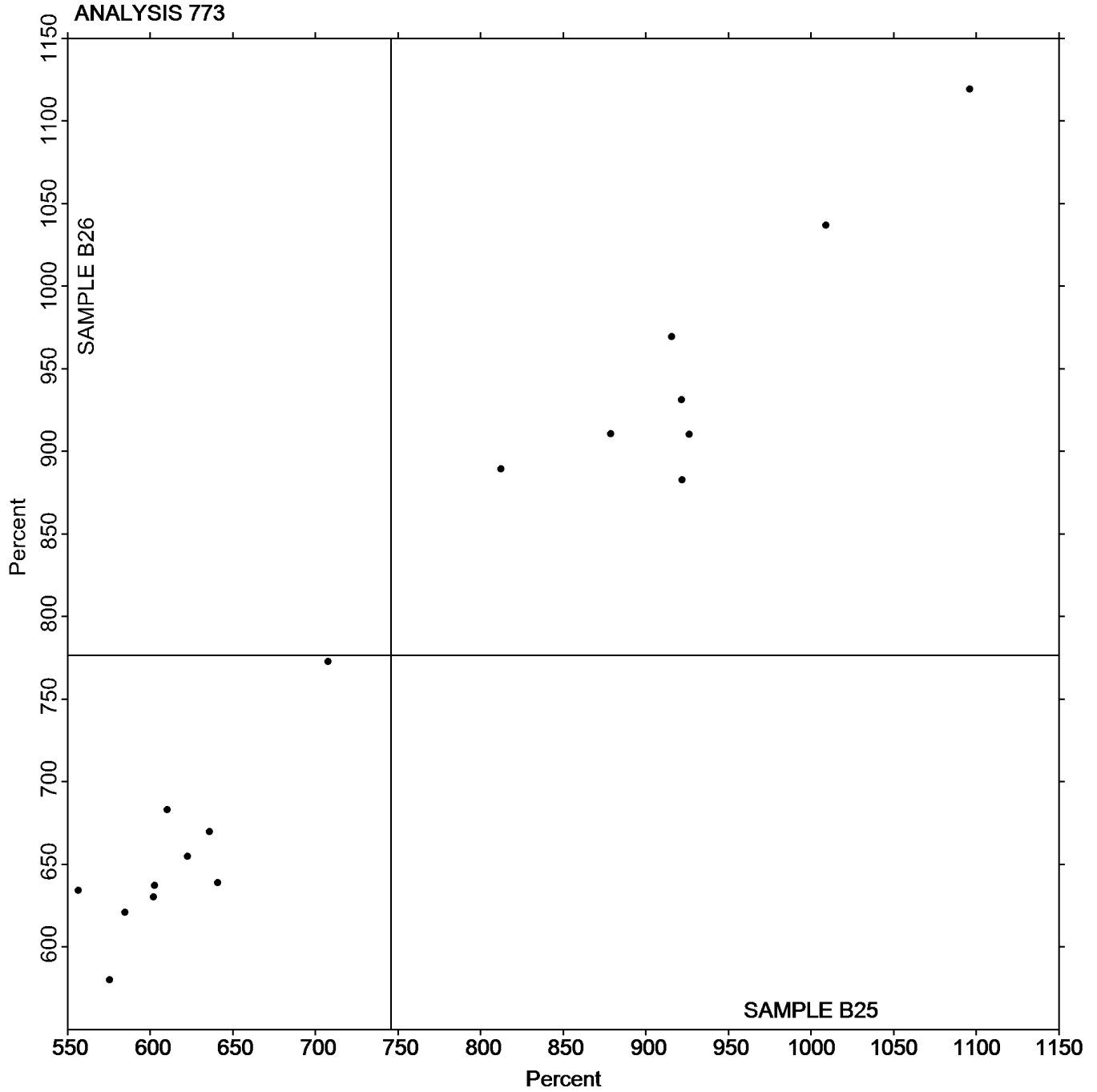
(TH) - Thwing Albert

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B25: 745.83 Percent Grand Mean Sample B26: 776.61 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 B25			Sample B26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
36TBHC		4.2040	0.1764	1.17	4.0440	0.0656	0.50	XX
7RUD99		4.0950	0.0674	0.45	4.0290	0.0506	0.38	XX
8UWUZW		4.0394	0.0118	0.08	3.9410	-0.0374	-0.28	XX
94YBBZ		4.0350	0.0074	0.05	4.0800	0.1016	0.77	XX
AWR9FX		3.9750	-0.0526	-0.35	3.8900	-0.0884	-0.67	XX
AYZJAG		3.9921	-0.0355	-0.24	3.9843	0.0059	0.04	XX
CZ4ZBJ	*	3.5735	-0.4541	-3.01	3.6301	-0.3483	-2.63	XX
DDRHP9		4.0100	-0.0176	-0.12	4.0700	0.0916	0.69	XX
DE3782		4.0330	0.0054	0.04	4.0160	0.0376	0.28	XX
EK6QQA		4.1772	0.1495	0.99	4.1063	0.1279	0.97	XX
EUP4L2		4.0510	0.0234	0.16	3.9990	0.0206	0.16	XX
GNDQZ7		4.1050	0.0774	0.51	4.0500	0.0716	0.54	XX
K8XTA3		3.9607	-0.0669	-0.44	3.9528	-0.0256	-0.19	XX
LGFU3H		4.0470	0.0194	0.13	4.1020	0.1236	0.94	XX
LLRL9B		3.6871	-0.3406	-2.26	3.6314	-0.3470	-2.63	XX
LTCVJT		4.0970	0.0694	0.46	4.0190	0.0406	0.31	XX
MBC3GR		4.1500	0.1224	0.81	4.0400	0.0616	0.47	XX
NB79BQ		4.0140	-0.0136	-0.09	3.8570	-0.1214	-0.92	XX
T49C9V		4.1600	0.1324	0.88	4.0700	0.0916	0.69	XX
TRYGE7		4.0040	-0.0236	-0.16	3.9843	0.0059	0.04	XX
Z6LAPY		4.1700	0.1424	0.94	4.0500	0.0716	0.54	XX

Summary Statistics	
Grand Means	4.02762 mils
	3.97839 mils
Std Dev Btwn Labs	0.15075 mils
	0.13220 mils
Statistics based on 21 of 21 reporting participants	

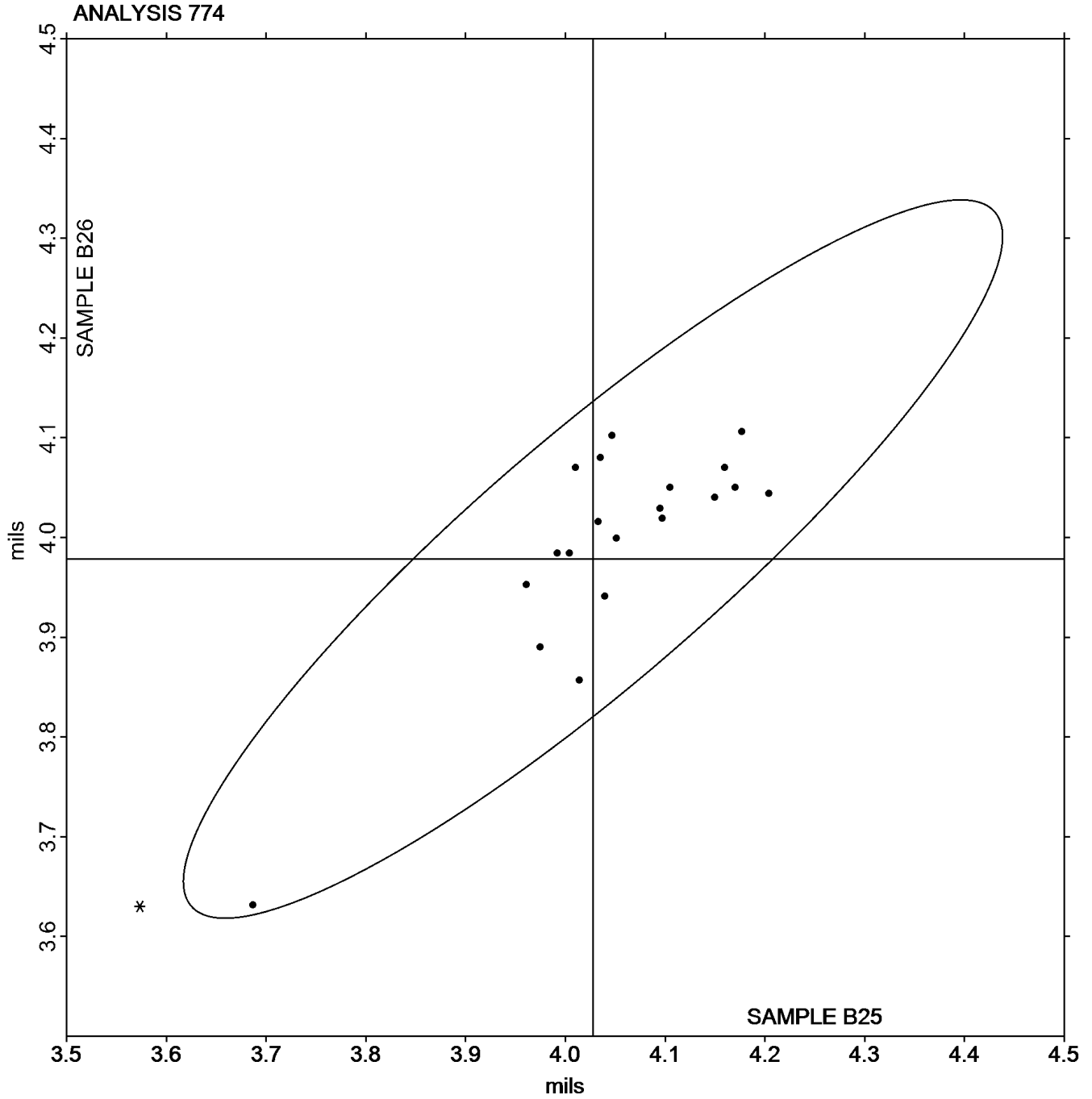
Sample B25: LDPE & Sample B26: LDPE

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 B25: 4.0276 mils Grand Mean Sample B26: 3.9784 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 B25			Sample B26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
36TBHC		28,506	-2,473	-1.19	28,664	-2,411	-1.23	IN
7RUD99		32,734	1,755	0.85	32,275	1,200	0.61	IN
94YBBZ		28,236	-2,743	-1.32	28,240	-2,835	-1.45	IN
AWR9FX		32,927	1,948	0.94	31,910	835	0.43	TH
AYZJAG		33,243	2,264	1.09	33,573	2,498	1.28	SH
EK6QQA		30,173	-806	-0.39	28,233	-2,842	-1.46	XX
GNDQZ7		32,080	1,101	0.53	32,305	1,231	0.63	MT
K8XTA3	X	24,191	-6,788	-3.28	24,252	-6,822	-3.49	IN
LGFU3H		30,903	-76	-0.04	32,173	1,099	0.56	IM
LTCVJT		29,234	-1,745	-0.84	30,596	-479	-0.25	IN
MBC3GR		31,269	290	0.14	32,966	1,891	0.97	IN
NB79BQ		30,371	-608	-0.29	31,564	490	0.25	IN
T49C9V		28,370	-2,609	-1.26	28,680	-2,394	-1.23	IN
TRYGE7		34,682	3,703	1.79	32,790	1,716	0.88	IN

Summary Statistics	
Grand Means	30,979.0 psi 31,074.4 psi
Std Dev Btwn Labs	2,072.2 psi 1,952.5 psi
Statistics based on 13 of 14 reporting participants	

Sample B25: LDPE & Sample B26: LDPE

Comments on assigned Data Flags for Test #775

K8XTA3 (X) - Data for both samples are low.

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

(MT) - MTS/Sintech

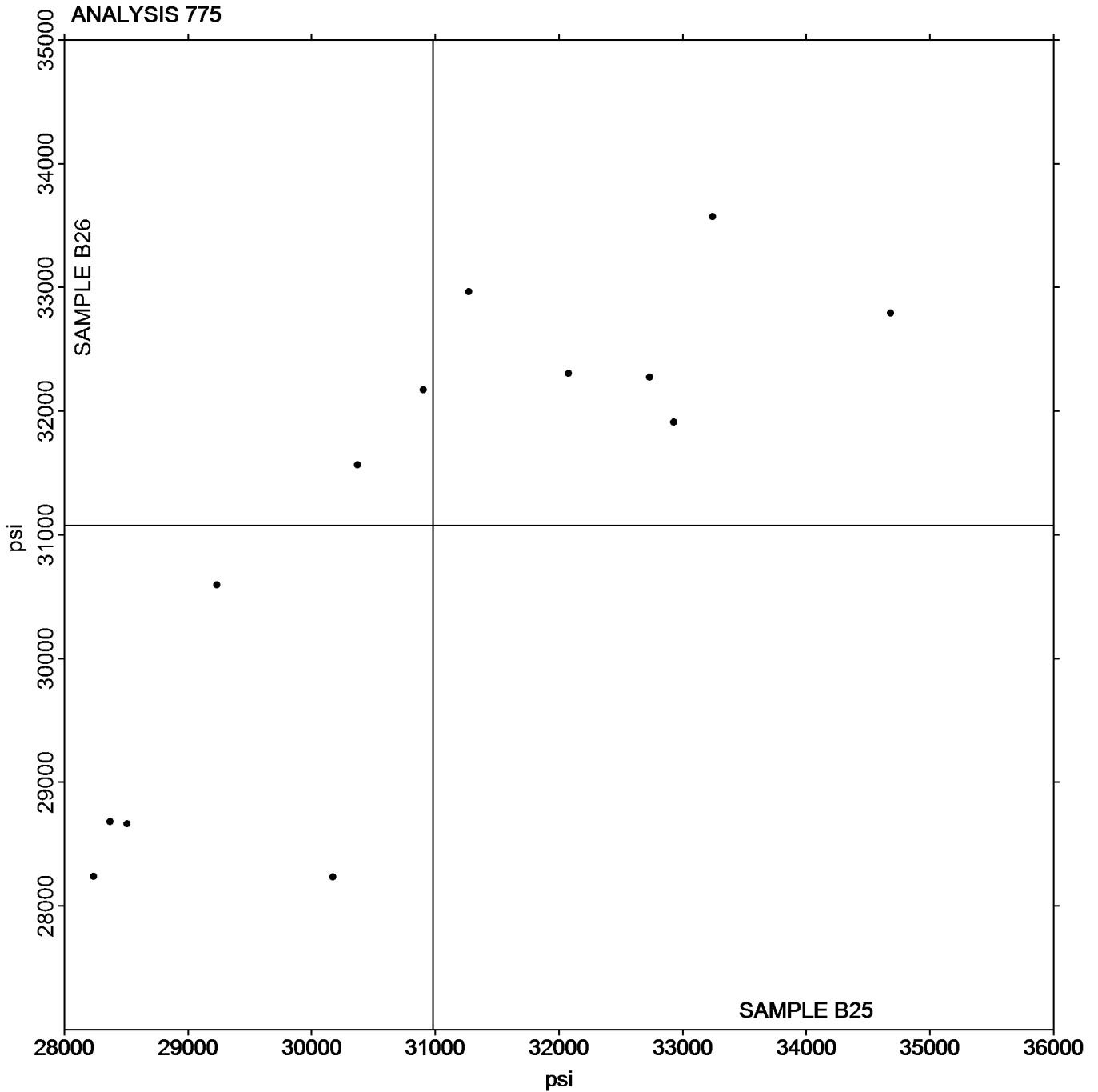
(SH) - Shimadzu

(TH) - Thwing Albert

(XX) - Instrument manufacturer not specified by lab

Analysis 775
Secant Modulus at 1% Strain - psi

Grand Mean Sample B25: 30,978.97 psi Grand Mean Sample B26: 31,074.43 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 B25			Sample B26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
36TBHC		25,483	-1,212	-0.69	25,446	-1,237	-0.93	IN
7RUD99		27,501	806	0.46	27,177	494	0.37	IN
94YBBZ		24,915	-1,780	-1.02	24,805	-1,878	-1.42	IN
AWR9FX		27,485	790	0.45	26,783	100	0.08	TH
AYZJAG		26,536	-158	-0.09	26,386	-297	-0.22	SH
EK6QQA		30,316	3,622	2.07	29,244	2,561	1.93	XX
GNDQZ7	X	27,008	313	0.18	27,067	384	0.29	MT
K8XTA3	X	21,092	-5,603	-3.20	21,184	-5,499	-4.15	IN
LGFU3H		25,771	-924	-0.53	26,719	36	0.03	IM
LTCVJT		26,101	-594	-0.34	26,906	223	0.17	IN
MBC3GR		26,027	-667	-0.38	27,317	634	0.48	IN
T49C9V		24,530	-2,165	-1.24	24,790	-1,893	-1.43	IN
TRYGE7		28,974	2,280	1.30	27,939	1,256	0.95	IN

Summary Statistics

Grand Means

26,694.5 psi

26,682.9 psi

Std Dev Btwn Labs

1,748.8 psi

1,325.5 psi

Statistics based on 11 of 13 reporting participants

Sample B25: LDPE & Sample B26: LDPE

Comments on assigned Data Flags for Test #776

K8XTA3 (X) - Data for both samples are low.

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

(MT) - MTS/Sintech

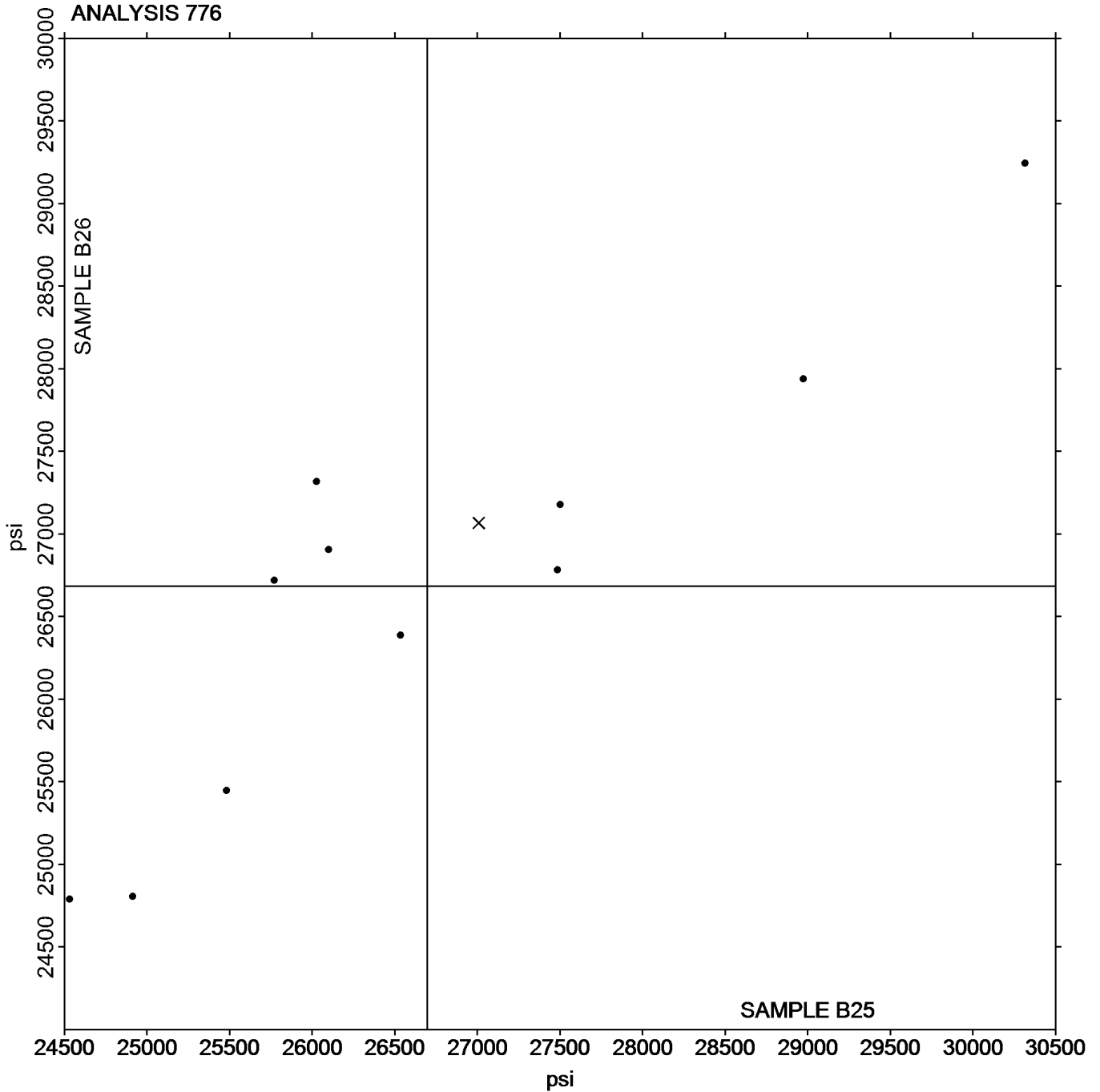
(SH) - Shimadzu

(TH) - Thwing Albert

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B25: 26,694.50 psi Grand Mean Sample B26: 26,682.93 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 P25			Sample P26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2UC9H6	*	0.0740	-0.0579	-2.23	0.1240	-0.0072	-0.34	IG
6LNKCR		0.1546	0.0227	0.88	0.1354	0.0042	0.20	TH
7RUD99		0.1133	-0.0186	-0.72	0.1224	-0.0088	-0.42	TM
94YBBZ		0.1168	-0.0151	-0.58	0.1156	-0.0156	-0.74	TN
AWR9FX		0.1100	-0.0219	-0.84	0.1054	-0.0258	-1.22	TH
BBB9NC		0.1718	0.0399	1.54	0.1550	0.0238	1.12	RD
CZ4ZBJ		0.1358	0.0039	0.15	0.1322	0.0010	0.05	TH
DDRHP9		0.1398	0.0079	0.31	0.1424	0.0112	0.53	MI
GNDQZ7		0.1504	0.0185	0.71	0.1522	0.0210	0.99	MI
HNFVYF		0.1289	-0.0030	-0.12	0.1008	-0.0304	-1.44	IG
K8XTA3		0.1320	0.0001	0.00	0.1300	-0.0012	-0.06	TL
LLRL9B		0.1330	0.0011	0.04	0.1248	-0.0064	-0.30	RD
MBC3GR		0.1464	0.0145	0.56	0.1252	-0.0060	-0.28	IS
MP7GP8		0.1114	-0.0205	-0.79	0.1188	-0.0124	-0.59	RD
NB79BQ		0.1094	-0.0225	-0.87	0.1098	-0.0214	-1.01	TH
PYVXJU		0.1836	0.0517	1.99	0.1858	0.0546	2.58	TH
VEJJ4L		0.1308	-0.0011	-0.04	0.1508	0.0196	0.93	MI

Summary Statistics			
Grand Means	0.13188	COF	0.13121
Std Dev Btwn Labs	0.02592	COF	0.02117
Statistics based on 17 of 17 reporting participants			

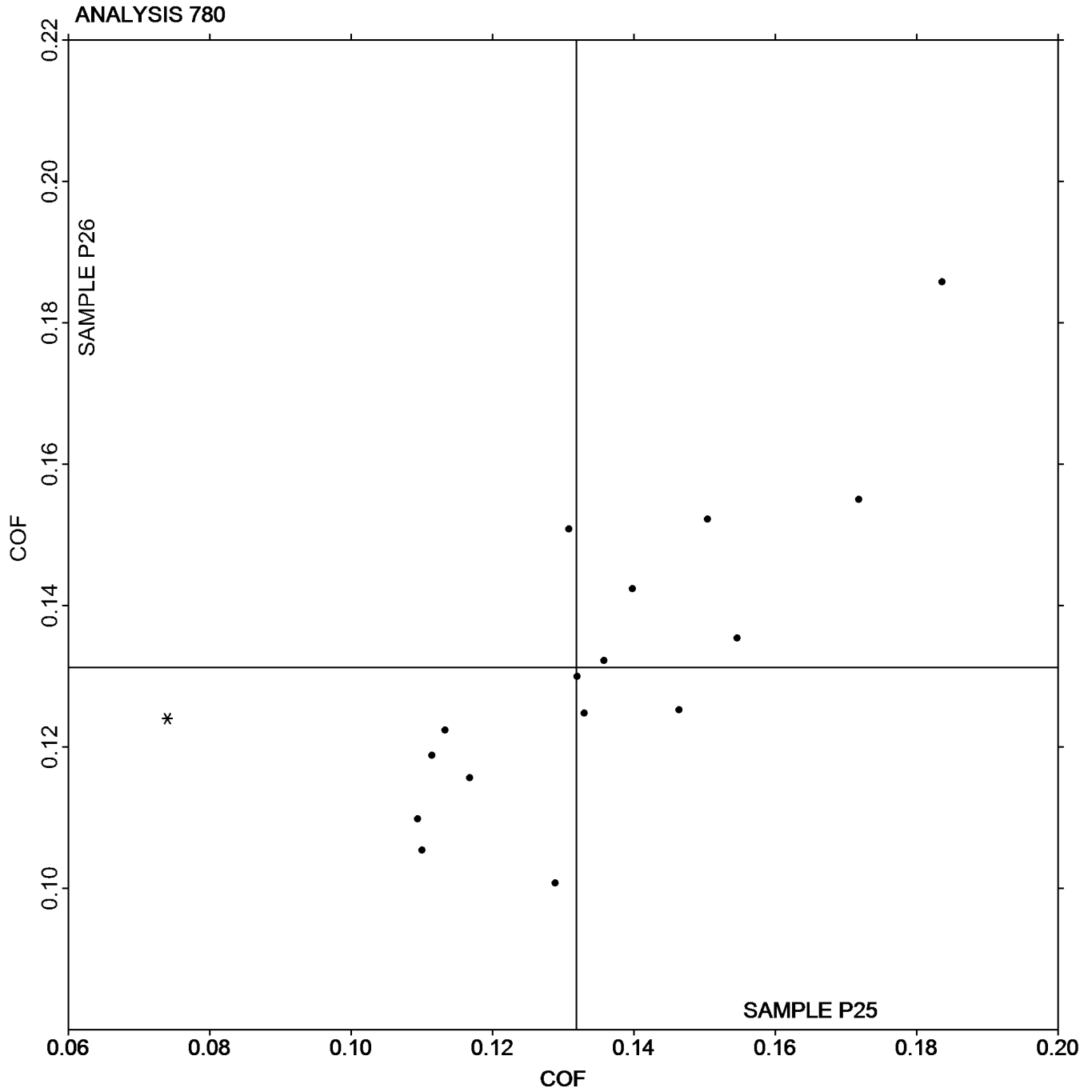
Sample P25: LDPE & Sample P26: LDPE

Instrument Code List as Reported by the Labs

- | | |
|---|----------------------------|
| (IG) - Instron | (IS) - Instron 5000 Series |
| (MI) - MTS Insight | (RD) - RDM CF |
| (TH) - Thwing Albert Friction/Peel Tester Model 225-1 | (TL) - TMI #32-90 |
| (TM) - TMI Slip and Friction Tester | (TN) - TMI #32-06 |

Plastics Interlaboratory Testing Program
Analysis 780
Coefficient of Static Friction

Grand Mean Sample P25: 0.13188 COF Grand Mean Sample P26: 0.13121 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 P25			Sample P26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2UC9H6		0.0780	-0.0173	-1.34	0.0900	-0.0057	-0.47	IG
6LNKCR		0.0888	-0.0065	-0.50	0.0854	-0.0103	-0.86	TH
7RUD99		0.0808	-0.0145	-1.12	0.0840	-0.0117	-0.98	TM
94YBBZ		0.0776	-0.0177	-1.37	0.0766	-0.0191	-1.59	TN
AWR9FX		0.0766	-0.0187	-1.45	0.0790	-0.0167	-1.39	TH
BBB9NC	X	0.1652	0.0699	5.39	0.1494	0.0537	4.48	RD
CZ4ZBJ		0.1084	0.0131	1.01	0.1072	0.0115	0.96	TH
DDRHP9		0.0824	-0.0129	-1.00	0.0840	-0.0117	-0.97	MI
GNDQZ7		0.1114	0.0161	1.24	0.1064	0.0107	0.89	MI
HNFVYF		0.1039	0.0086	0.66	0.0939	-0.0018	-0.15	IG
K8XTA3		0.1040	0.0087	0.67	0.1080	0.0123	1.03	TL
LLRL9B		0.1066	0.0113	0.87	0.1064	0.0107	0.89	RD
MBC3GR		0.0962	0.0009	0.07	0.0896	-0.0061	-0.51	IS
MP7GP8		0.0964	0.0011	0.08	0.0976	0.0019	0.16	RD
NB79BQ		0.0978	0.0025	0.19	0.1044	0.0087	0.73	TH
PYVXJU		0.1148	0.0195	1.50	0.1164	0.0207	1.73	TH
VEJJ4L		0.1018	0.0065	0.50	0.1022	0.0065	0.54	MI

Summary Statistics			
Grand Means	0.09535	COF	0.09569
			COF
Std Dev Btwn Labs	0.01296	COF	0.01200
			COF
Statistics based on 16 of 17 reporting participants			

Sample P25: LDPE & Sample P26: LDPE

Comments on assigned Data Flags for Test #781

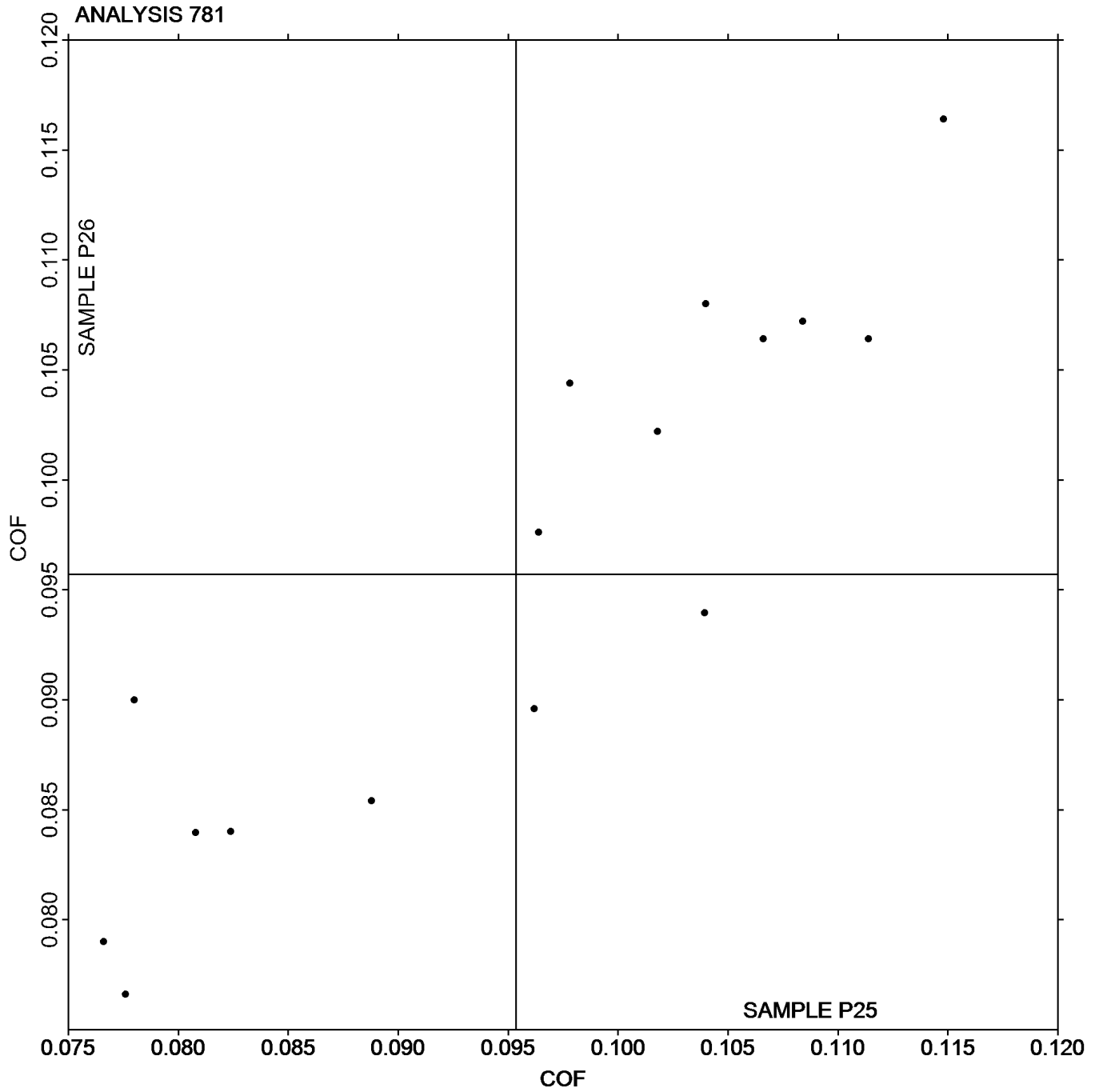
BBB9NC (X) - Data for both samples are high.

Instrument Code List as Reported by the Labs

- | | |
|---|----------------------------|
| (IG) - Instron | (IS) - Instron 5000 Series |
| (MI) - MTS Insight | (RD) - RDM CF |
| (TH) - Thwing Albert Friction/Peel Tester Model 225-1 | (TL) - TMI #32-90 |
| (TM) - TMI Slip and Friction Tester | (TN) - TMI #32-06 |

Plastics Interlaboratory Testing Program
Analysis 781
Coefficient of Kinetic Friction

Grand Mean Sample P25: 0.09535 COF Grand Mean Sample P26: 0.09569 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 Q25			Sample Q26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
36TBHC		442.6	-5.6	-0.10	321.9	-96.4	-1.57	XX
74KG7A	X	677.4	229.2	3.96	650.7	232.4	3.77	TA
7RUD99		481.0	32.8	0.57	485.4	67.1	1.09	TE
8UWUZW		528.1	79.9	1.38	496.2	77.9	1.26	SZ
94YBBZ		443.7	-4.5	-0.08	462.4	44.1	0.72	TM
DDRHP9		353.6	-94.6	-1.63	398.5	-19.8	-0.32	XX
GNDQZ7		394.2	-54.0	-0.93	385.8	-32.6	-0.53	TE
K8XTA3		408.7	-39.5	-0.68	435.9	17.5	0.28	TM
LGFU3H		475.7	27.5	0.47	466.2	47.9	0.78	TE
MBC3GR		502.6	54.4	0.94	436.1	17.8	0.29	TE
NB79BQ		379.3	-68.9	-1.19	305.3	-113.0	-1.84	TE
T49C9V		533.9	85.7	1.48	450.0	31.7	0.51	TN
VEJJ4L		434.9	-13.3	-0.23	376.3	-42.0	-0.68	TE

Summary Statistics	
Grand Means	448.19 grams-force 418.33 grams-force
Stnd Dev Btwn Labs	57.93 grams-force 61.58 grams-force
Statistics based on 12 of 13 reporting participants	

Sample Q25: LDPE & Sample Q26: LDPE

Comments on assigned Data Flags for Test #782

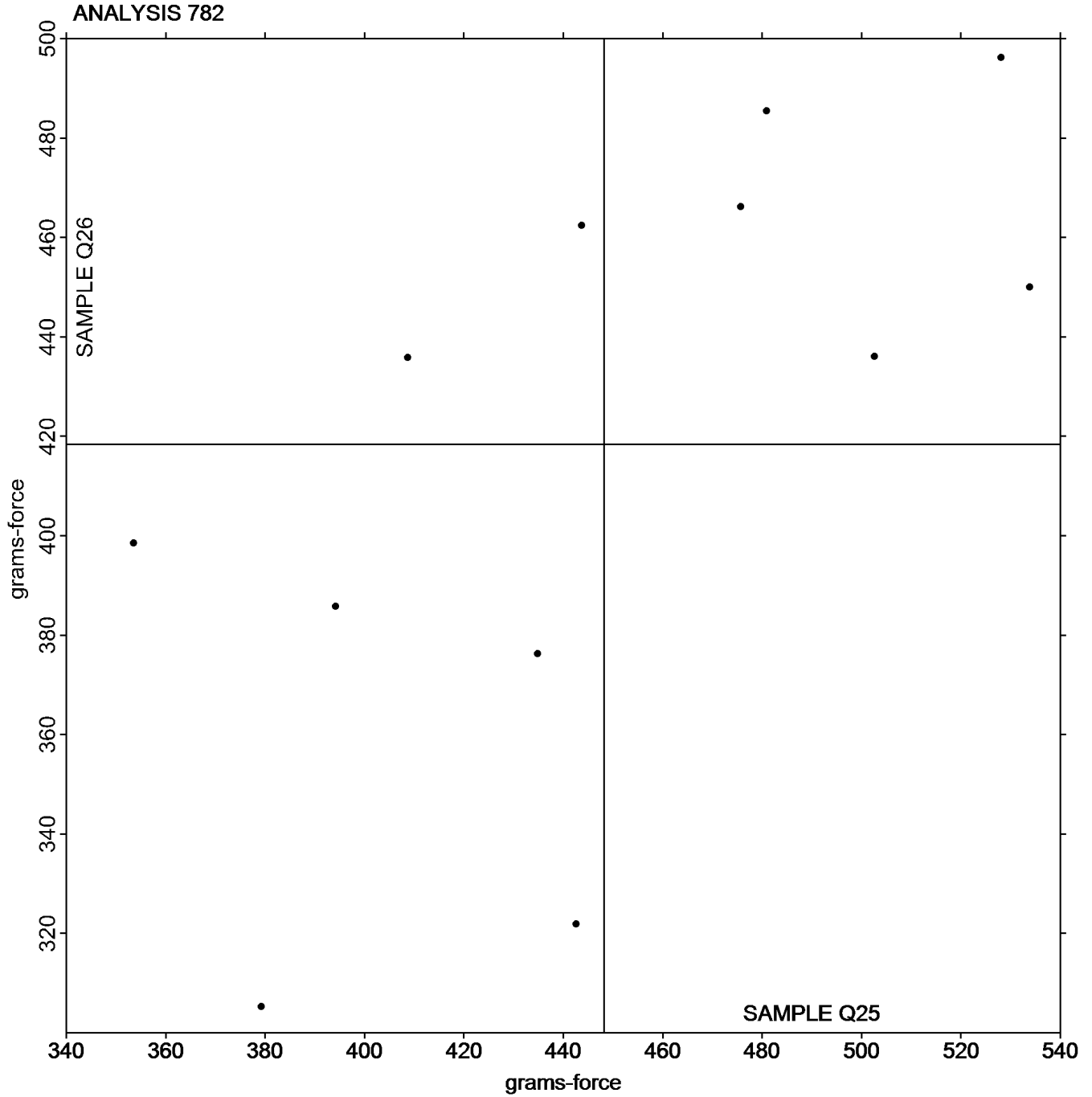
74KG7A (X) - Data for both samples are high.

Instrument Code List as Reported by the Labs

- | | |
|-------------------------------|---|
| (SZ) - Textest FX 3700 | (TA) - Thwing-Albert |
| (TE) - Thwing-Albert Pro Tear | (TM) - TMI No. 83-1100 |
| (TN) - TMI Tear Tester 83-10 | (XX) - Instrument make/model not specified by lab |

Plastics Interlaboratory Testing Program
Analysis 782
Tear Resistance of Films

Grand Mean Sample Q25: 448.19 grams-force Grand Mean Sample Q26: 418.33 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 D25			Sample D26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2HM3V3		15.613	-0.565	-0.63	14.925	-0.077	-0.10	BJ
4WVXYM		15.728	-0.450	-0.50	14.438	-0.564	-0.74	MA
6KFC9Y		16.050	-0.128	-0.14	15.250	0.248	0.33	BJ
73EMW3		16.588	0.410	0.46	15.050	0.048	0.06	BJ
74KG7A		16.375	0.197	0.22	15.050	0.048	0.06	BJ
7BLGTG		16.325	0.147	0.16	15.288	0.286	0.38	BJ
7RUD99		16.375	0.197	0.22	15.238	0.236	0.31	BJ
7T88NA	*	13.719	-2.459	-2.74	13.816	-1.185	-1.56	XR
8A9EDV		14.975	-1.203	-1.34	13.813	-1.189	-1.56	BJ
8UWUZW		15.838	-0.340	-0.38	14.500	-0.502	-0.66	BJ
94YBBZ		18.400	2.222	2.47	16.375	1.373	1.80	BJ
CZ4ZBJ		16.250	0.072	0.08	15.738	0.736	0.97	BJ
D82XRK		14.908	-1.270	-1.41	13.679	-1.323	-1.74	HL
DDRHP9		16.150	-0.028	-0.03	15.138	0.136	0.18	XX
DE3782		16.450	0.272	0.30	14.750	-0.252	-0.33	BJ
DKCB6E		16.240	0.062	0.07	15.426	0.425	0.56	XR
E2AX7C		16.268	0.090	0.10	14.846	-0.155	-0.20	BJ
GNDQZ7		16.725	0.547	0.61	14.638	-0.364	-0.48	BJ
JMTTLC		17.250	1.072	1.19	16.375	1.373	1.80	DA
K8XTA3		16.413	0.235	0.26	14.463	-0.539	-0.71	BJ
L74HTU		16.913	0.735	0.82	15.450	0.448	0.59	BJ
M7H2FC		16.458	0.280	0.31	15.408	0.406	0.53	BH
MBC3GR	*	17.228	1.050	1.17	16.870	1.868	2.45	BT
NB79BQ		17.100	0.922	1.03	14.700	-0.302	-0.40	BJ
PPXGJQ		15.739	-0.439	-0.49	15.035	0.033	0.04	XR
PYVXJU		14.963	-1.215	-1.35	14.525	-0.477	-0.63	BH
QVN4XU		15.763	-0.415	-0.46	14.263	-0.739	-0.97	BJ
RFQCRJ	X	92.950	76.772	85.47	92.875	77.873	102.21	XX

Plastics Interlaboratory Testing Program
Analysis 785
Percent Haze of Film

Summary Statistics			
Grand Means	16.1777	Percent	15.0016 Percent
Std Dev Btwn Labs	0.8982	Percent	0.7619 Percent
Statistics based on 27 of 28 reporting participants			

Sample D25: LDPE & Sample D26: LDPE

Comments on assigned Data Flags for Test #785

RFQCRJ (X) - Extremely high data for all samples. Lab appears to have reported % transmittance data.

Instrument Code List as Reported by the Labs

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

(BJ) - BYK-Gardner Haze-Gard Plus

(BT) - BYK Gardner TCS Series

(DA) - Datacolor SF 600 Series

(HL) - Hunterlab Ultrascan

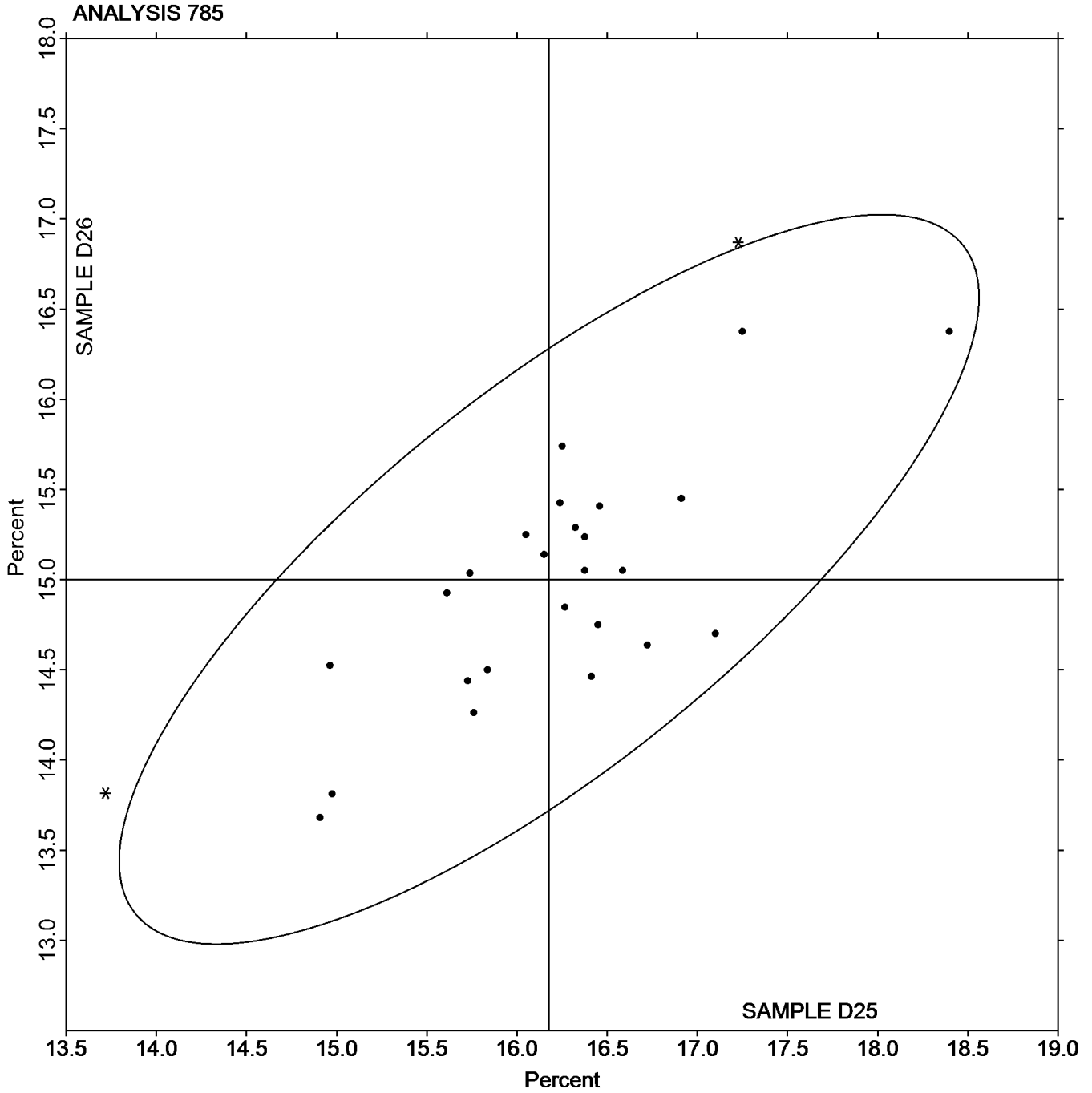
(MA) - Macbeth 7000A

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

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

Analysis 785
Percent Haze of Film

Grand Mean Sample D25: 16.178 Percent Grand Mean Sample D26: 15.002 Percent



Plastics Interlaboratory Testing Program
Analysis 786
Total Luminous transmittance of film

WebCode	Data Flag	Sample D25			Sample D26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2HM3V3		92.90	0.74	0.69	92.85	0.89	0.84	BJ
4WVXYM		90.71	-1.45	-1.35	90.40	-1.56	-1.48	MA
6KFC9Y		92.53	0.37	0.34	92.21	0.25	0.24	BJ
73EMW3		92.83	0.67	0.62	92.56	0.60	0.57	BJ
74KG7A		91.19	-0.97	-0.90	90.99	-0.97	-0.92	BJ
7BLGTG		93.25	1.09	1.02	92.85	0.89	0.84	BJ
7RUD99		92.54	0.38	0.35	92.09	0.13	0.12	BJ
7T88NA		90.96	-1.20	-1.12	90.69	-1.27	-1.20	XR
8A9EDV		92.20	0.04	0.04	92.11	0.15	0.14	BJ
8UWUZW		90.91	-1.25	-1.16	90.78	-1.19	-1.12	BJ
94YBBZ		92.39	0.23	0.21	92.25	0.29	0.27	BJ
D82XRK		90.12	-2.03	-1.89	90.21	-1.75	-1.66	HL
DE3782		94.25	2.09	1.95	93.85	1.89	1.79	BJ
DKCB6E		91.35	-0.81	-0.75	91.27	-0.69	-0.65	XR
E2AX7C		92.98	0.82	0.76	92.80	0.84	0.79	BJ
GNDQZ7		92.65	0.49	0.46	92.39	0.43	0.40	BJ
JMTTLC		90.70	-1.45	-1.35	90.36	-1.61	-1.52	DA
K8XTA3		92.88	0.72	0.67	92.90	0.94	0.89	BJ
L74HTU		91.40	-0.76	-0.71	91.11	-0.85	-0.80	BJ
M7H2FC		91.65	-0.51	-0.47	91.55	-0.41	-0.39	XX
MBC3GR		92.54	0.38	0.35	92.30	0.34	0.32	BT
NB79BQ		94.30	2.14	1.99	94.14	2.18	2.06	BJ
PPXGJQ		91.51	-0.64	-0.60	91.33	-0.63	-0.60	XR
PYVXJU		91.54	-0.62	-0.58	91.40	-0.56	-0.53	BH
QVN4XU		92.89	0.73	0.68	92.73	0.76	0.72	BJ
RFQCRJ		92.98	0.82	0.76	92.89	0.93	0.88	XX

Plastics Interlaboratory Testing Program
Analysis 786
Total Luminous transmittance of film

Summary Statistics

Grand Means

92.158 Percent

91.961 Percent

Std Dev Btwn Labs

1.074 Percent

1.057 Percent

Statistics based on 26 of 26 reporting participants

Sample D25: LDPE & Sample D26: 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

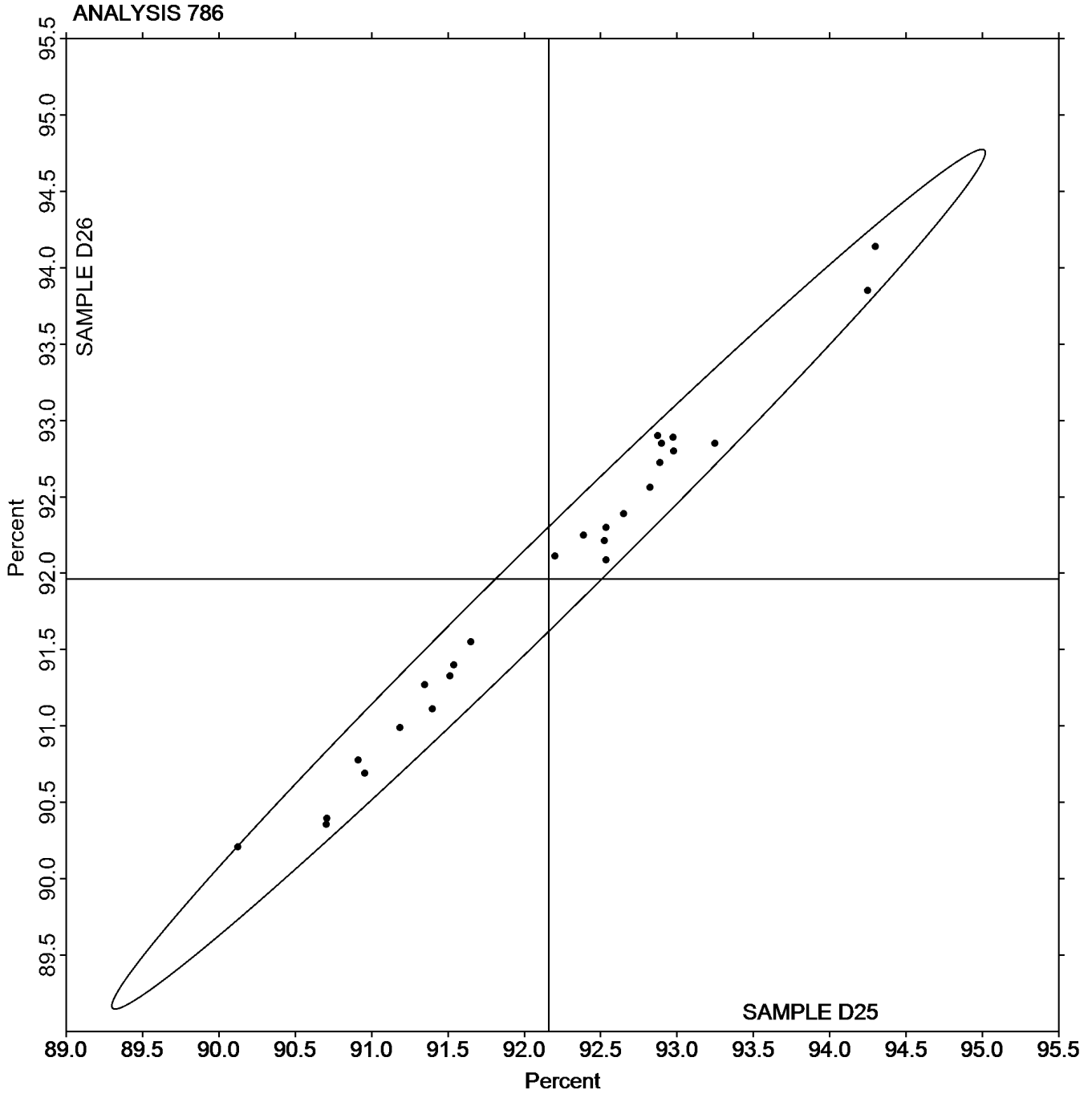
(XR) - X-Rite Spectrocolorimeter (any model)

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

Analysis 786

Total Luminous transmittance of film

Grand Mean Sample D25: 92.158 Percent Grand Mean Sample D26: 91.961 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 Y25			Sample Y26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3MUX64		0.09400	0.01274	0.50	0.08900	0.00834	0.29	AZ
3ZZ44A		0.07200	-0.00926	-0.36	0.07800	-0.00266	-0.09	MK
462Q7B		0.09033	0.00907	0.35	0.08167	0.00100	0.04	MJ
4L8VQZ		0.07933	-0.00193	-0.08	0.07833	-0.00233	-0.08	MJ
6BRCYG		0.07453	-0.00673	-0.26	0.07183	-0.00883	-0.31	MK
8ZM49A	X	0.08600	0.00474	0.19	0.05700	-0.02366	-0.83	AZ
AAXJN7		0.10667	0.02541	0.99	0.11300	0.03234	1.13	CT
B3EFFH	*	0.00633	-0.07493	-2.93	0.00433	-0.07633	-2.66	AZ
BFLJKC		0.07423	-0.00703	-0.27	0.07547	-0.00520	-0.18	MR
EHGC77		0.14233	0.06107	2.39	0.14767	0.06700	2.34	MU
ERL24B		0.07827	-0.00299	-0.12	0.07737	-0.00330	-0.11	MU
EUUC3Z	*	0.07333	-0.00793	-0.31	0.09233	0.01167	0.41	MD
FJ3HXG		0.04477	-0.03649	-1.43	0.04240	-0.03826	-1.33	XX
G66TGB		0.14333	0.06207	2.43	0.15333	0.07267	2.53	MU
J9DVFB		0.10623	0.02497	0.98	0.11987	0.03920	1.37	MT
KD2WY2		0.08067	-0.00059	-0.02	0.08000	-0.00066	-0.02	XX
L74HTU		0.07492	-0.00634	-0.25	0.06183	-0.01884	-0.66	MK
MAGM2N		0.09850	0.01724	0.67	0.09300	0.01234	0.43	SB
MBC3GR		0.09800	0.01674	0.65	0.09600	0.01534	0.53	ML
NDUHMC		0.07220	-0.00906	-0.35	0.06820	-0.01246	-0.43	MK
PB2YUR		0.07193	-0.00933	-0.36	0.06893	-0.01173	-0.41	MR
PQH7VG		0.07700	-0.00426	-0.17	0.07300	-0.00766	-0.27	BA
PZK9C9		0.09800	0.01674	0.65	0.10200	0.02134	0.74	CT
R72JKT		0.06590	-0.01536	-0.60	0.06207	-0.01860	-0.65	XX
T4TNFG		0.06697	-0.01429	-0.56	0.05967	-0.02100	-0.73	AZ
TJ8YZW		0.08200	0.00074	0.03	0.07400	-0.00666	-0.23	SB
U2KXNR		0.06600	-0.01526	-0.60	0.06900	-0.01166	-0.41	MB
VQDKYB		0.07778	-0.00348	-0.14	0.07791	-0.00275	-0.10	MU
X4RQN8		0.07100	-0.01026	-0.40	0.06500	-0.01566	-0.55	MR
YXN6DJ		0.07000	-0.01126	-0.44	0.06400	-0.01666	-0.58	XX

Plastics Interlaboratory Testing Program
Analysis 755
Moisture Content of Plastics

Summary Statistics				
Grand Means	0.081261	Percent	0.080662	Percent
Stnd Dev Btwn Labs	0.025566	Percent	0.028677	Percent
Statistics based on 29 of 30 reporting participants				

Sample Y25: ABS/PC & Sample Y26: ABS/PC

Comments on assigned Data Flags for Test #755

8ZM49A (X) - Inconsistent in testing between samples.

Instrument Code List as Reported by the Labs

(AZ) - Arizona Instruments Moisture Analyzer

(BA) - Brabender Aquatrac

(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 Coulometer 756 KF

(MT) - Mettler Toledo DL39

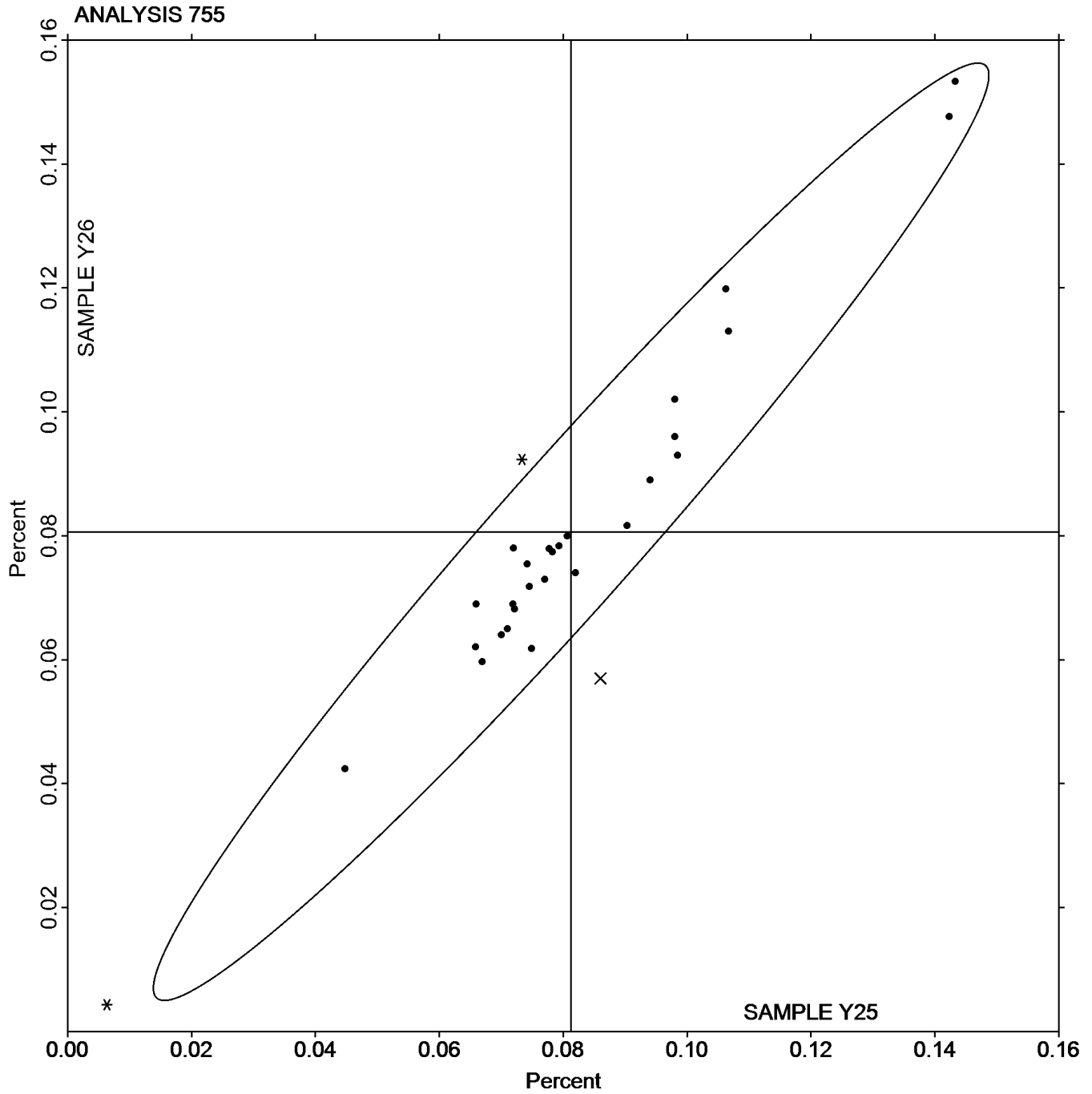
(MU) - Mettler Toledo

(SB) - Sartorius Mark 3

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program
Analysis 755
Moisture Content of Plastics

Grand Mean Sample Y25: 0.08126 Percent Grand Mean Sample Y26: 0.08066 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 W25			Sample W26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3ZZ44A		187.16667	-2.46764	-0.81	186.43333	-3.10750	-1.01	TA
4L8VQZ		191.86667	2.23236	0.74	192.60000	3.05917	0.99	MT
4LRR3Z		189.76667	0.13236	0.04	188.60000	-0.94083	-0.31	TA
74KG7A		188.20000	-1.43431	-0.47	188.36667	-1.17417	-0.38	TA
883PD8		193.34000	3.70569	1.22	193.84667	4.30583	1.40	TA
A7HULW		194.96667	5.33236	1.76	194.03333	4.49250	1.46	TA
ADGENR		196.33000	6.69569	2.21	196.39000	6.84917	2.23	TA
EDKMLT		188.70000	-0.93431	-0.31	187.30000	-2.24083	-0.73	TA
EUUC3Z		189.50000	-0.13431	-0.04	189.53333	-0.00750	0.00	PE
G66TGB		188.37000	-1.26431	-0.42	187.87667	-1.66417	-0.54	MT
J7NGV8		188.93333	-0.70097	-0.23	187.94333	-1.59750	-0.52	TA
L3NMFH		187.77667	-1.85764	-0.61	187.50667	-2.03417	-0.66	TA
NWBQLR		190.91000	1.27569	0.42	190.48667	0.94583	0.31	PE
QGKVXR		189.03333	-0.60097	-0.20	188.90000	-0.64083	-0.21	TA
QX79K7		187.20333	-2.43097	-0.80	187.90000	-1.64083	-0.53	XX
RMM9BF		186.98333	-2.65097	-0.87	187.91667	-1.62417	-0.53	TA
T49C9V		185.63333	-4.00097	-1.32	185.60000	-3.94083	-1.28	PE
TJ8YZW		188.70000	-0.93431	-0.31	188.64333	-0.89750	-0.29	PE
W6TXXN		187.10000	-2.53431	-0.84	187.10000	-2.44083	-0.79	PE
XA4RTC		185.02333	-4.61097	-1.52	185.64667	-3.89417	-1.27	TA
XTCRZQ		194.29667	4.66236	1.54	194.88000	5.33917	1.74	TA
XYLV68		194.19000	4.55569	1.50	194.21000	4.66917	1.52	TA
Z3VVE4		189.20000	-0.43431	-0.14	188.80000	-0.74083	-0.24	TA
ZMV9PM		188.03333	-1.60097	-0.53	188.46667	-1.07417	-0.35	PE

Summary Statistics

Grand Means

189.634306 Degrees Celsius

189.540833 Degrees Celsius

Std Dev Btwn Labs

3.031083 Degrees Celsius

3.075127 Degrees Celsius

Statistics based on 24 of 24 reporting participants

Sample W25: PBT & Sample W26: PBT

Plastics Interlaboratory Testing Program
Analysis 760
DSC Crystallization Temperature

Instrument Code List as Reported by the Labs

(MT) - Mettler Toledo Instruments

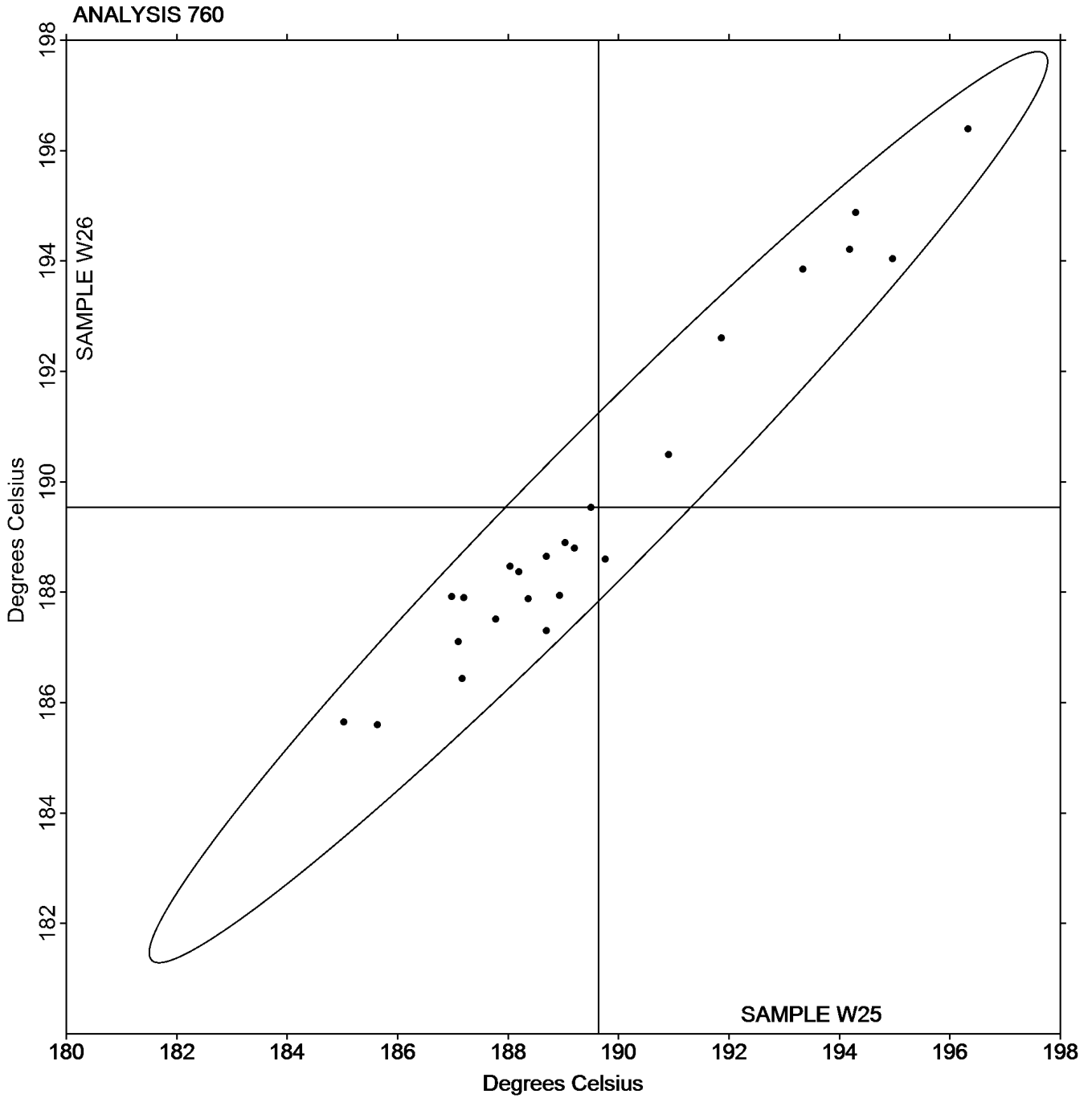
(PE) - Perkins Elmer Instruments

(TA) - TA Instruments

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program
Analysis 760
DSC Crystallization Temperature

Grand Mean Sample W25: 189.63 Degrees Celsius Grand Mean Sample W26: 189.54 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 W25			Sample W26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3ZZ44A		224.76667	1.17159	0.77	224.70000	0.90928	0.56	TA
4L8VQZ		224.70000	1.10493	0.73	224.90000	1.10928	0.69	MT
4LRR3Z		222.30000	-1.29507	-0.85	222.26667	-1.52406	-0.94	TA
74KG7A		224.06667	0.47159	0.31	224.20000	0.40928	0.25	TA
883PD8		224.53333	0.93826	0.62	224.45333	0.66261	0.41	TA
8ZM49A		223.13333	-0.46174	-0.30	223.60000	-0.19072	-0.12	TA
A7HULW		221.83333	-1.76174	-1.16	221.50000	-2.29072	-1.42	TA
ADGENR		219.52667	-4.06841	-2.69	219.67333	-4.11739	-2.55	TA
EDKMLT		224.36667	0.77159	0.51	225.40000	1.60928	0.99	TA
EUUC3Z		223.63333	0.03826	0.03	224.00000	0.20928	0.13	PE
G66TGB		222.35333	-1.24174	-0.82	222.27333	-1.51739	-0.94	MT
J7NGV8		225.23333	1.63826	1.08	226.26667	2.47594	1.53	TA
L3NMFH		224.13667	0.54159	0.36	224.67000	0.87928	0.54	TA
NWBQLR		222.18000	-1.41507	-0.93	222.11000	-1.68072	-1.04	PE
PQH7VG	X	230.50000	6.90493	4.56	229.73333	5.94261	3.67	PE
QGKVXR		223.06667	-0.52841	-0.35	222.53333	-1.25739	-0.78	TA
QX79K7		226.30333	2.70826	1.79	226.08000	2.28928	1.42	TA
T49C9V		225.50000	1.90493	1.26	225.06667	1.27594	0.79	PE
TJ8YZW		222.72000	-0.87507	-0.58	222.71000	-1.08072	-0.67	PE
W6TXXN		223.46667	-0.12841	-0.08	224.46667	0.67594	0.42	PE
XA4RTC		225.69000	2.09493	1.38	225.99000	2.19928	1.36	TA
XYLV68		223.71000	0.11493	0.08	223.89333	0.10261	0.06	TA
Z3VVE4		223.06667	-0.52841	-0.35	223.43333	-0.35739	-0.22	TA
ZMV9PM		222.40000	-1.19507	-0.79	223.00000	-0.79072	-0.49	XX

Summary Statistics

Grand Means

223.595072 Degrees Celsius

223.790725 Degrees Celsius

Std Dev Btwn Labs

1.514999 Degrees Celsius

1.617554 Degrees Celsius

Statistics based on 23 of 24 reporting participants

Sample W25: PBT & Sample W26: PBT

Plastics Interlaboratory Testing Program
Analysis 761
DSC Melt Temperature

Comments on assigned Data Flags for Test #761

PQH7VG (X) - Data for both samples are high. Also inconsistent in testing within both samples.

Instrument Code List as Reported by the Labs

(MT) - Mettler Toledo Instruments

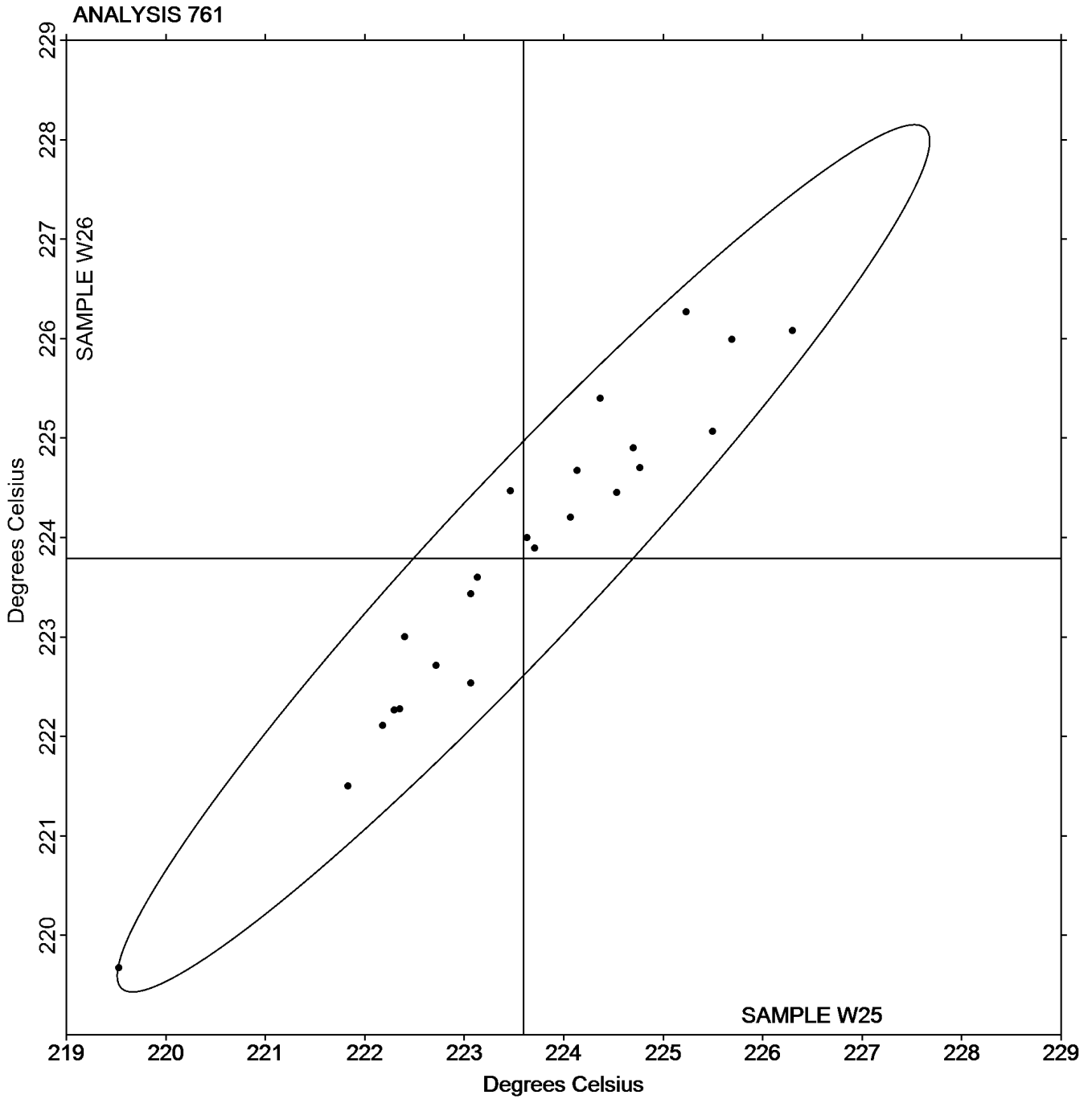
(PE) - Perkins Elmer Instruments

(TA) - TA Instruments

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program
Analysis 761
DSC Melt Temperature

Grand Mean Sample W25: 223.60 Degrees Celsius Grand Mean Sample W26: 223.79 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 W25			Sample W26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3ZZ44A	*	52.21667	6.97729	1.06	44.94333	-0.01609	0.00	TA
4LRR3Z		50.46667	5.22729	0.80	49.36667	4.40724	0.68	TA
74KG7A		46.49667	1.25729	0.19	47.73667	2.77724	0.43	TA
883PD8		42.06333	-3.17604	-0.48	42.56333	-2.39609	-0.37	TA
A7HULW		45.93333	0.69396	0.11	48.70000	3.74057	0.58	TA
ADGENR		42.64667	-2.59271	-0.40	43.42667	-1.53276	-0.24	TA
EDKMLT		41.13333	-4.10604	-0.63	37.40000	-7.55943	-1.17	TA
EUUC3Z		40.82000	-4.41937	-0.67	40.58667	-4.37276	-0.68	PE
L3NMFH		51.31000	6.07063	0.93	50.04667	5.08724	0.79	TA
QGKVXR		41.52000	-3.71937	-0.57	43.37000	-1.58943	-0.25	TA
QX79K7		61.62333	16.38396	2.50	61.13000	16.17057	2.51	TA
T49C9V		40.97333	-4.26604	-0.65	40.54333	-4.41609	-0.69	PE
TJ8YZW		33.72933	-11.51004	-1.76	34.17360	-10.78583	-1.68	PE
W6TXXN		42.11667	-3.12271	-0.48	43.23333	-1.72609	-0.27	PE
XA4RTC		51.95333	6.71396	1.02	53.68667	8.72724	1.36	TA
XYLV68		39.64000	-5.59937	-0.85	39.31000	-5.64943	-0.88	TA
Z3VVE4		44.42667	-0.81271	-0.12	44.09333	-0.86609	-0.13	TA

Summary Statistics			
Grand Means	45.239373	Joules Per Gram	44.959427 Joules Per Gram
Std Dev Btwn Labs	6.557019	Joules Per Gram	6.437320 Joules Per Gram
Statistics based on 17 of 17 reporting participants			

Sample W25: PBT & Sample W26: PBT

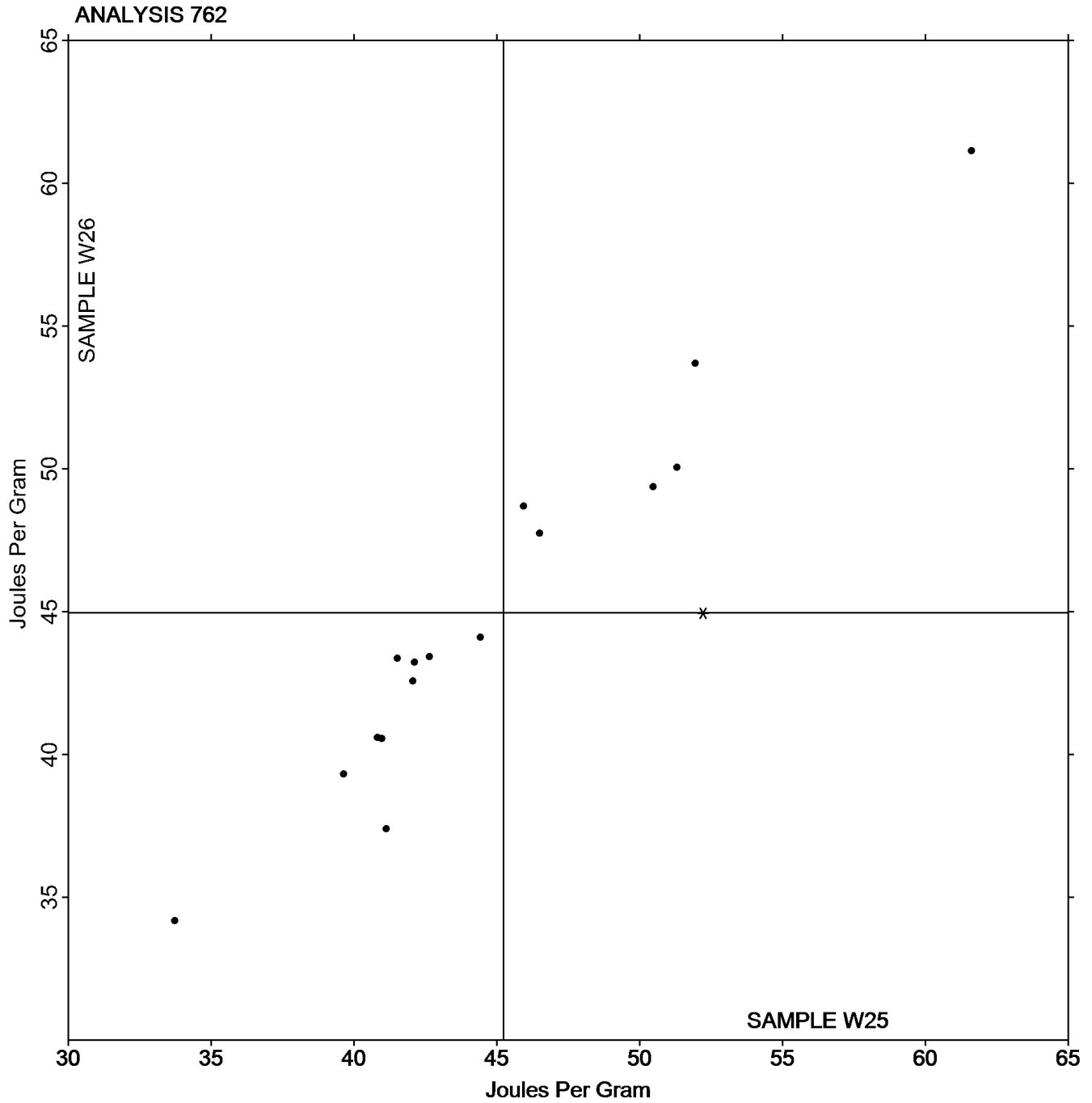
Instrument Code List as Reported by the Labs

(PE) - Perkins Elmer Instruments

(TA) - TA Instruments

Plastics Interlaboratory Testing Program
Analysis 762
DSC Enthalpy of Crystallization

Grand Mean Sample W25: 45.239 Joules Per Gram Grand Mean Sample W26: 44.959 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 W25			Sample W26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3ZZ44A		42.74333	0.45898	0.05	40.22333	-2.19860	-0.25	TA
4LRR3Z		50.20000	7.91564	0.86	49.46667	7.04474	0.79	TA
74KG7A		49.30333	7.01898	0.76	49.97000	7.54807	0.85	TA
883PD8		37.73667	-4.54769	-0.49	37.66000	-4.76193	-0.53	TA
A7HULW		42.70000	0.41564	0.05	43.26667	0.84474	0.09	TA
ADGENR		35.49333	-6.79102	-0.74	35.79333	-6.62860	-0.74	TA
EDKMLT		31.63333	-10.65102	-1.15	29.36667	-13.05526	-1.46	TA
EUUC3Z		37.91667	-4.36769	-0.47	34.78333	-7.63860	-0.86	PE
L3NMFH		55.53000	13.24564	1.44	54.77000	12.34807	1.39	TA
QGKVXR	*	29.40667	-12.87769	-1.40	37.29000	-5.13193	-0.58	TA
QX79K7		66.06000	23.77564	2.58	65.31333	22.89140	2.57	TA
T49C9V		33.64333	-8.64102	-0.94	34.08667	-8.33526	-0.94	PE
TJ8YZW		43.82407	1.53971	0.17	42.83617	0.41424	0.05	PE
W6TXXN		42.24000	-0.04436	0.00	43.20000	0.77807	0.09	PE
XA4RTC		43.16000	0.87564	0.09	45.99000	3.56807	0.40	TA
XYLV68		34.26333	-8.02102	-0.87	33.67333	-8.74860	-0.98	TA
Z3VVE4		42.98000	0.69564	0.08	43.48333	1.06140	0.12	TA

Summary Statistics			
Grand Means	42.284357	Joules Per Gram	42.421931 Joules Per Gram
Std Dev Btwn Labs	9.222317	Joules Per Gram	8.912872 Joules Per Gram
Statistics based on 17 of 17 reporting participants			

Sample W25: PBT & Sample W26: PBT

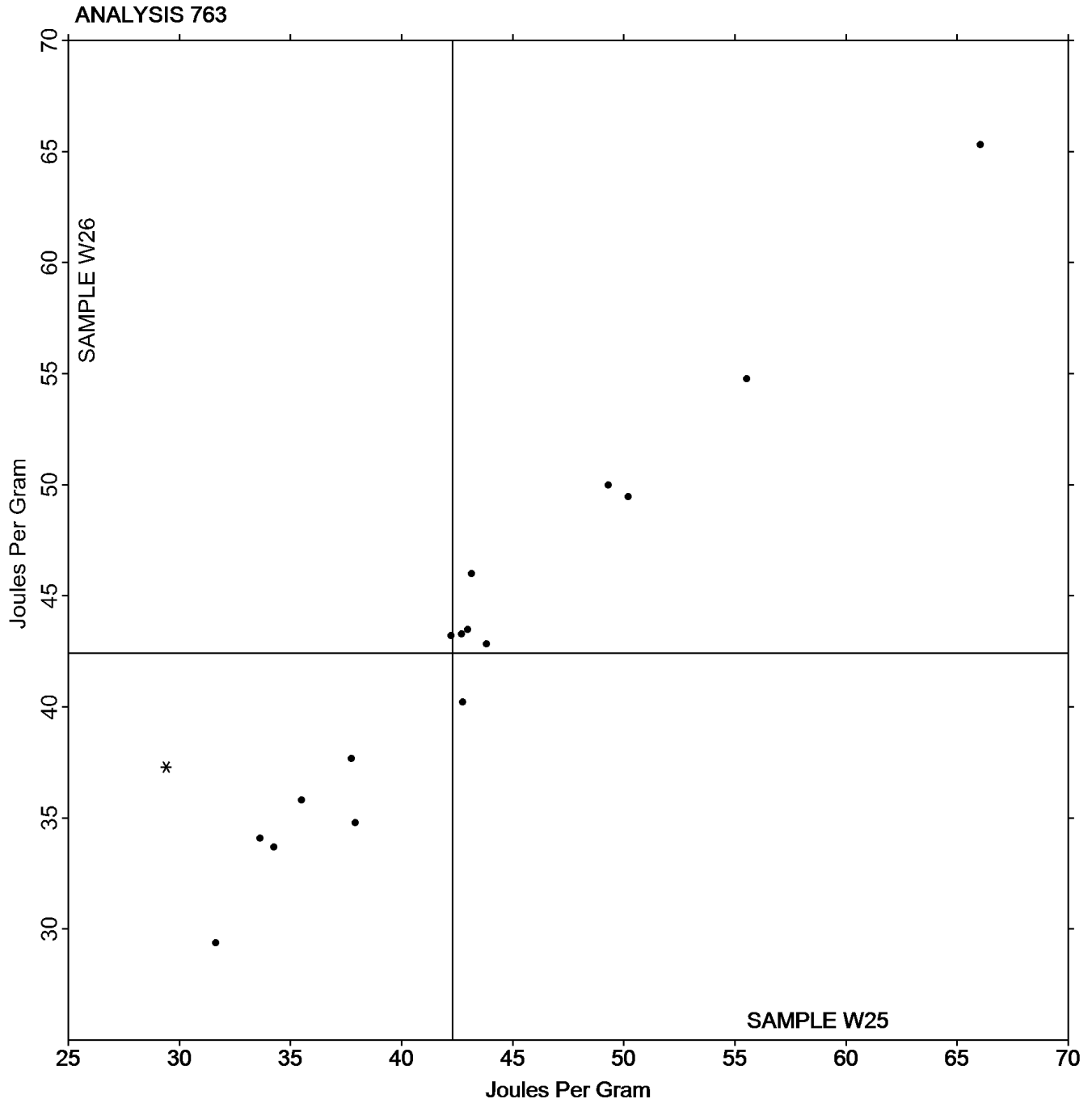
Instrument Code List as Reported by the Labs

(PE) - Perkins Elmer Instruments

(TA) - TA Instruments

Plastics Interlaboratory Testing Program
Analysis 763
DSC Enthalpy of Fusion

Grand Mean Sample W25: 42.284 Joules Per Gram Grand Mean Sample W26: 42.422 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 V25			Sample V26			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3ZZ44A		110.13333	0.91889	0.38	110.16667	1.11259	0.47	TA
4LRR3Z		103.33333	-5.88111	-2.41	103.53333	-5.52074	-2.33	TA
74KG7A		106.40000	-2.81444	-1.15	106.70000	-2.35407	-0.99	TA
883PD8		107.77000	-1.44444	-0.59	107.44333	-1.61074	-0.68	TA
8ZM49A		108.90000	-0.31444	-0.13	108.90000	-0.15407	-0.07	TA
A7HULW	X	99.56667	-9.64778	-3.95	99.60000	-9.45407	-3.99	TA
EDKMLT		110.93333	1.71889	0.70	110.90000	1.84593	0.78	TA
EUUC3Z	*	110.80000	1.58556	0.65	109.23333	0.17926	0.08	PE
G66TGB		110.84667	1.63222	0.67	110.04667	0.99259	0.42	MT
L3NMFH		112.33000	3.11556	1.28	112.33333	3.27926	1.38	TA
NDUHMC		110.47000	1.25556	0.51	110.69667	1.64259	0.69	XX
QGKVXR		109.20000	-0.01444	-0.01	109.20000	0.14593	0.06	TA
QX79K7		112.76000	3.54556	1.45	112.18333	3.12926	1.32	TA
T49C9V		104.66667	-4.54778	-1.86	104.20000	-4.85407	-2.05	PE
TJ8YZW		110.05333	0.83889	0.34	109.60000	0.54593	0.23	XX
W6TXXN		108.10000	-1.11444	-0.46	108.03333	-1.02074	-0.43	PE
XA4RTC		109.47333	0.25889	0.11	109.49333	0.43926	0.19	TA
XYLV68		110.15667	0.94222	0.39	110.54333	1.48926	0.63	TA
Z3VVE4		109.53333	0.31889	0.13	109.76667	0.71259	0.30	TA

Summary Statistics			
Grand Means	109.214444	Degrees Celsius	109.054074 Degrees Celsius
Std Dev Btwn Labs	2.439982	Degrees Celsius	2.368755 Degrees Celsius
Statistics based on 18 of 19 reporting participants			

Sample V25: ABS & Sample V26: ABS

Comments on assigned Data Flags for Test #764

A7HULW (X) - Data for both samples are low.

Instrument Code List as Reported by the Labs

(MT) - Mettler Toledo Instruments

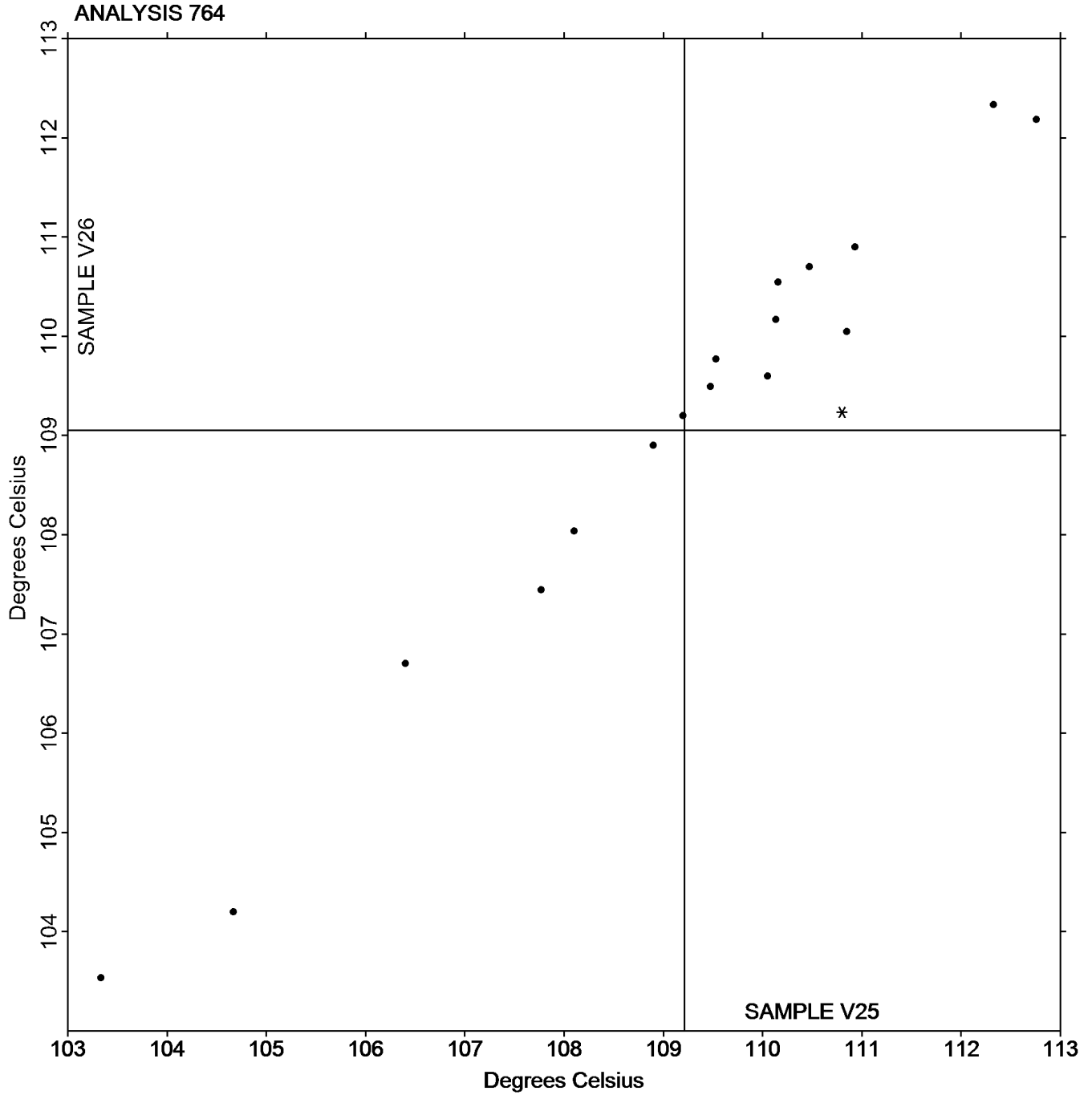
(PE) - Perkins Elmer Instruments

(TA) - TA Instruments

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program
Analysis 764
DSC Glass Transition Temperature

Grand Mean Sample V25: 109.21 Degrees Celsius Grand Mean Sample V26: 109.05 Degrees Celsius



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