

Plastics Interlaboratory Testing Program

Web Summary Report #63, 3rd Qtr 2007

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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 50 countries currently participate in CTS programs.

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

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

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

For further information contact:

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

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

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 #63

Plastics Interlaboratory Testing Program

Analysis 704 - Tensile Stress at Yield

Material: HIPS	Sample F63	4,075.54	psi	3.81% COV
	Sample F64	4,110.43	psi	3.86% COV

Analysis 705 - Tensile Stress at Break

Material: HIPS	Sample F63	3,215.64	psi	2.94% COV
	Sample F64	3,265.96	psi	3.73% COV

Analysis 706 - Percent Elongation at Yield

Material: HIPS	Sample F63	1.5313	Percent	5.33% COV
	Sample F64	1.5491	Percent	5.63% COV

Analysis 708 - Modulus of Elasticity

Material: HIPS	Sample F63	311.33	ksi	10.0% COV
	Sample F64	312.12	ksi	10.6% COV

Analysis 730 - Tensile Stress at Yield, ISO Method

Material: HIPS	Sample C63	28.400	MPa	3.68% COV
	Sample C64	28.351	MPa	4.15% COV

Analysis 731 - Tensile Stress at Break, ISO Method

Material: HIPS	Sample C63	23.405	MPa	2.35% COV
	Sample C64	23.320	MPa	3.41% COV

Analysis 732 - Strain at Yield, ISO Method

Material: HIPS	Sample C63	1.5197	Percent	5.60% COV
	Sample C64	1.5128	Percent	6.33% COV

Analysis 734 - Modulus of Elasticity, ISO Method

Material: HIPS	Sample C63	2,123.75	MPa	4.13% COV
	Sample C64	2,138.95	MPa	4.68% COV

Analysis 720 - Flexural Modulus

Material: ABS	Sample J63	368.25	ksi	6.12% COV
	Sample J64	368.85	ksi	5.99% COV

Analysis 721 - Flexural Stress at 5% Strain

Material: ABS	Sample J63	10,910.01	psi	3.95% COV
	Sample J64	10,865.85	psi	4.00% COV

Analysis 722 - Flexural Stress at Yield

Material: ABS	Sample J63	10,907.52	psi	3.48% COV
	Sample J64	10,849.36	psi	3.71% COV

Analysis 736 - Flexural Modulus

Material: HIPS	Sample K63	2,249.41	MPa	4.18% COV
	Sample K64	2,173.04	MPa	4.07% COV

Analysis 737 - Flexural Stress at 3.5% Strain

Material: HIPS	Sample K63	45.583	MPa	2.03% COV
	Sample K64	44.593	MPa	2.56% COV

Results Summary for Web Summary Report #63

Plastics Interlaboratory Testing Program

Analysis 738 - Flexural Stress at Yield

Material: HIPS	Sample K63	45.530	MPa	1.88% COV
	Sample K64	44.560	MPa	2.59% COV

Analysis 790 - Notched Izod Impact

Material: ABS	Sample S63	4.1171	ft.lbf/in	5.63% COV
	Sample S64	7.2556	ft.lbf/in	6.48% COV

Analysis 792 - Notched Charpy Impact

Material: ABS/PC	Sample M63	17.770	kJ/m ²	13.3% COV
	Sample M64	28.197	kJ/m ²	39.3% COV

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

Material: ABS	Sample E63	79.949	Degrees C	1.83% COV
	Sample E64	81.410	Degrees C	1.68% COV

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

Material: PP	Sample G63	96.187	Degrees C	3.35% COV
	Sample G64	116.27	Degrees C	2.16% COV

Analysis 712 - Temperature of Deflection (1.80 MPa)

Material: HIPS	Sample N63	81.450	Degrees C	1.52% COV
	Sample N64	77.808	Degrees C	1.58% COV

Analysis 715 - Vicat Temperature (Rate A)

Material: ABS	Sample H63	103.59	Degrees C	0.932% COV
	Sample H64	104.88	Degrees C	0.994% COV

Analysis 716 - Vicat Temperature (Rate B)

Material: ABS	Sample R63	105.37	Degrees C	1.01% COV
	Sample R64	106.31	Degrees C	0.972% COV

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

Material: LDPE	Sample X63	6.5526	grams/10 mins	3.39% COV
	Sample X64	6.0162	grams/10 mins	3.35% COV

Analysis 718 - Specific Gravity

Material: HIPS	Sample T63	1.0326	sp gr 23/23 C	0.162% COV
	Sample T64	1.0326	sp gr 23/23 C	0.157% COV

Analysis 757 - Ash Content

Material: PBT	Sample L63	15.132	Percent	0.648% COV
	Sample L64	17.848	Percent	0.963% COV

Analysis 770 - Tensile Stress at Yield, Films

Material: LDPE	Sample B63	1,905.59	psi	12.3% COV
	Sample B64	1,913.87	psi	11.9% COV

Analysis 771 - Tensile Stress at Break, Films

Material: LDPE	Sample B63	3,979.77	psi	12.5% COV
	Sample B64	3,983.22	psi	10.8% COV

Results Summary for Web Summary Report #63

Plastics Interlaboratory Testing Program

Analysis 772 - Elongation at Yield, Films

Material: LDPE	Sample B63	59.780	Percent	66.2% COV
	Sample B64	60.034	Percent	65.7% COV

Analysis 773 - Elongation at Break, Films

Material: LDPE	Sample B63	799.28	Percent	20.0% COV
	Sample B64	792.15	Percent	17.8% COV

Analysis 774 - Thickness of Film Specimens

Material: LDPE	Sample B63	3.9218	mils	1.63% COV
	Sample B64	3.9104	mils	1.33% COV

Analysis 775 - Secant Modulus at 1% Strain

Material: LDPE	Sample B63	30,619.18	psi	11.6% COV
	Sample B64	30,978.79	psi	10.4% COV

Analysis 776 - Secant Modulus at 2% Strain

Material: LDPE	Sample B63	26,171.54	psi	5.57% COV
	Sample B64	26,341.89	psi	6.56% COV

Analysis 780 - Static Friction

Material: LDPE	Sample P63	0.17313	COF	20.0% COV
	Sample P64	0.16557	COF	19.6% COV

Analysis 781 - Kinetic Friction

Material: LDPE	Sample P63	0.12859	COF	23.5% COV
	Sample P64	0.12257	COF	22.7% COV

Analysis 782 - Tear Resistance of Film

Material: LDPE	Sample Q63	188.95	grams-force	10.3% COV
	Sample Q64	186.89	grams-force	14.8% COV

Analysis 785 - Percent Haze

Material: LDPE	Sample D63	27.418	Percent	10.3% COV
	Sample D64	25.184	Percent	8.20% COV

Analysis 786 - Total Transmittance

Material: LDPE	Sample D63	92.771	Percent	1.53% COV
	Sample D64	92.877	Percent	1.54% COV

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

WebCode	Data Flag	Sample F63			Sample F64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1EQVX2		3,930.6	-145.0	-0.93	3,939.3	-171.2	-1.08
1PA8R6		4,232.6	157.1	1.01	4,149.2	38.8	0.24
24TZYX		4,184.2	108.7	0.70	4,170.0	59.6	0.38
2JC2TF		3,984.2	-91.3	-0.59	4,048.2	-62.2	-0.39
2MZNKH		3,954.0	-121.5	-0.78	4,021.7	-88.8	-0.56
2U9FMD		4,156.0	80.5	0.52	4,171.2	60.8	0.38
3CVDQJ		3,955.2	-120.3	-0.77	3,955.2	-155.2	-0.98
5EUBBV	X	3,917.6	-157.9	-1.02	4,196.2	85.8	0.54
5PFWFN	*	3,684.9	-390.7	-2.51	3,685.8	-424.6	-2.67
5PQQST		3,812.6	-262.9	-1.69	3,891.4	-219.0	-1.38
72MZBZ		4,099.4	23.9	0.15	4,138.6	28.2	0.18
74GX8S		4,138.6	63.1	0.41	4,198.6	88.2	0.56
76DTX9		4,131.9	56.4	0.36	4,152.4	41.9	0.26
8S72P9		4,259.2	183.7	1.18	4,315.8	205.4	1.29
8TRA6V		4,204.0	128.5	0.83	4,149.1	38.7	0.24
8UCLVH		3,934.6	-140.9	-0.91	3,926.8	-183.6	-1.16
8WUZTY		3,817.4	-258.1	-1.66	3,977.0	-133.5	-0.84
92B4P6		4,297.2	221.7	1.43	4,367.4	257.0	1.62
9LXDBK		4,198.6	123.0	0.79	4,198.6	88.2	0.56
9MRN9U		3,977.6	-97.9	-0.63	4,139.2	28.8	0.18
APFV5P		4,003.7	-71.9	-0.46	4,005.7	-104.7	-0.66
ARAT42		4,224.6	149.1	0.96	4,310.6	200.2	1.26
AZEHAZ		3,968.4	-107.1	-0.69	3,937.0	-173.4	-1.09
B26EQR		3,887.0	-188.5	-1.21	4,032.1	-78.4	-0.49
BKA571		4,357.3	281.7	1.81	4,410.3	299.9	1.89
CRYZ6B		3,914.0	-161.5	-1.04	3,993.0	-117.4	-0.74
D18NUW		4,240.8	165.3	1.06	4,256.0	145.6	0.92
DR2VGV		4,191.4	115.9	0.75	4,207.2	96.8	0.61
E29LEH	*	4,119.8	44.3	0.28	4,349.2	238.8	1.50
E58T7M		3,990.0	-85.5	-0.55	4,078.0	-32.4	-0.20
EMKDS4		4,042.0	-33.5	-0.22	4,040.2	-70.2	-0.44
EPABT3		4,250.8	175.3	1.13	4,294.0	183.6	1.16

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

WebCode	Data Flag	Sample F63			Sample F64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
FAC9GE		4,238.4	162.9	1.05	4,268.6	158.2	1.00
FAPMMQ		4,058.4	-17.1	-0.11	4,056.8	-53.6	-0.34
FNK6M3		3,834.8	-240.7	-1.55	3,985.8	-124.6	-0.79
FSRUUK		4,153.0	77.5	0.50	4,152.2	41.8	0.26
G385UG		4,137.6	62.1	0.40	4,201.0	90.6	0.57
H2U9QN		4,189.4	113.9	0.73	4,186.8	76.4	0.48
H9VV6A	*	3,681.1	-394.5	-2.54	3,686.9	-423.5	-2.67
HWRVSR	X	3,518.6	-556.9	-3.58	3,576.7	-533.8	-3.36
HZDQEK		4,089.8	14.3	0.09	4,206.7	96.3	0.61
JA8R9U		4,243.4	167.9	1.08	4,162.7	52.3	0.33
JCKXW2		4,336.6	261.1	1.68	4,433.8	323.4	2.04
JSH1K2		4,042.2	-33.3	-0.21	4,227.8	117.4	0.74
JT7FLW		3,896.0	-179.5	-1.15	3,830.0	-280.4	-1.77
JWVJ9		4,048.9	-26.6	-0.17	4,050.6	-59.8	-0.38
K4Q3J4		4,072.0	-3.5	-0.02	4,091.2	-19.2	-0.12
K9BY5F		4,003.4	-72.2	-0.46	4,041.1	-69.4	-0.44
KB9M2P		4,168.4	92.9	0.60	4,159.7	49.3	0.31
LEMJS6		4,035.0	-40.6	-0.26	4,006.0	-104.5	-0.66
LKMJU9		3,981.8	-93.7	-0.60	4,001.8	-108.6	-0.68
LSK8BD		4,028.0	-47.5	-0.31	4,080.0	-30.4	-0.19
N2ZLNE		4,164.1	88.5	0.57	4,276.6	166.2	1.05
N8A2PV		4,246.0	170.5	1.10	4,298.4	188.0	1.18
N937VN		4,064.4	-11.2	-0.07	4,010.5	-99.9	-0.63
NZ2NPE		4,074.7	-0.8	-0.01	4,149.0	38.6	0.24
PKRNS9		4,219.4	143.9	0.93	4,210.0	99.6	0.63
PX4979		4,357.0	281.5	1.81	4,319.8	209.4	1.32
Q85M9Z		4,114.1	38.5	0.25	4,190.7	80.3	0.51
S3SP5R		4,074.0	-1.5	-0.01	4,165.0	54.6	0.34
SL9HP7		4,199.8	124.3	0.80	4,187.4	77.0	0.48
SREJ1F		4,175.6	100.1	0.64	4,190.6	80.2	0.50
TAQRV8	*	3,652.8	-422.7	-2.72	3,756.6	-353.8	-2.23
TBCUJ3		4,224.0	148.5	0.95	4,268.0	157.6	0.99

**Plastics Interlaboratory Testing Program
Analysis 704**

Tensile Stress at Yield - psi

WebCode	Data Flag	Sample F63			Sample F64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
TDK75B		4,167.6	92.1	0.59	4,220.4	110.0	0.69
UD9CN3		4,113.8	38.3	0.25	4,148.8	38.4	0.24
W1ZZLD		4,027.2	-48.4	-0.31	4,063.1	-47.3	-0.30
W7UDH7	*	4,044.0	-31.5	-0.20	3,887.8	-222.6	-1.40
XB6LGR		3,979.0	-96.5	-0.62	4,066.8	-43.6	-0.27
XKPPGS		4,059.3	-16.3	-0.10	4,036.6	-73.8	-0.46
Z56HHX		3,969.4	-106.1	-0.68	3,979.9	-130.6	-0.82
ZB1NJZ		4,208.6	133.1	0.86	4,240.0	129.6	0.82
ZBLDVT		3,847.9	-227.7	-1.46	3,836.6	-273.9	-1.72

Summary Statistics

Grand Means

4,075.54 psi

4,110.43 psi

Std Dev Btwn Labs

155.47 psi

158.77 psi

Statistics based on 71 of 73 reporting participants

Sample F63: HIPS & **Sample F64:** HIPS

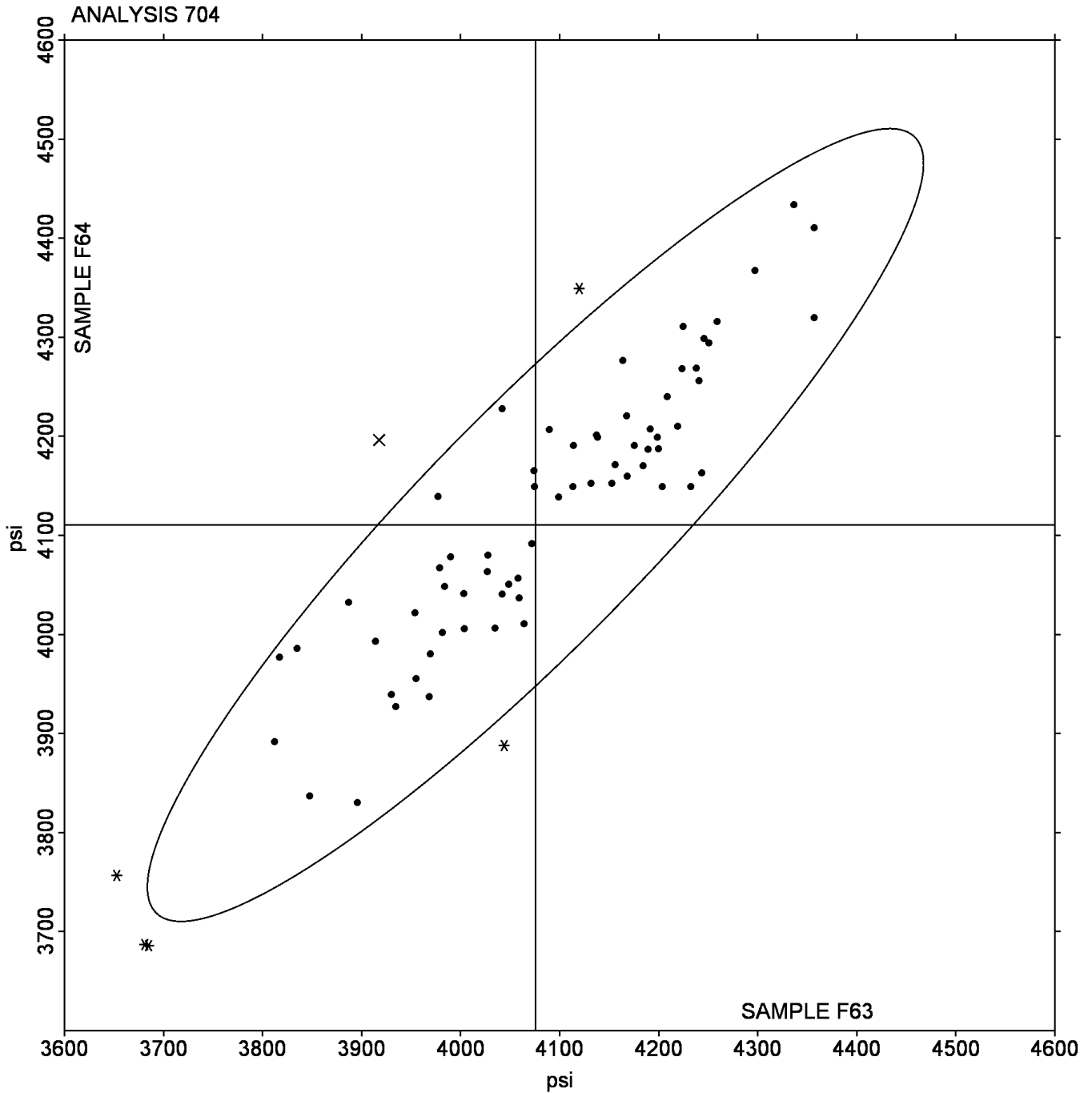
Comments on assigned Data Flags for Test #704

5EUBBV (X) - Inconsistent in testing between samples.

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

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

Grand Mean Sample F63: 4,075.54 psi Grand Mean Sample F64: 4,110.43 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 705
Tensile Stress at Break - psi

WebCode	Data Flag	Sample F63			Sample F64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1XB69T		3,160.7	-55.0	-0.58	3,214.4	-51.6	-0.42
2N1XVT		3,132.8	-82.8	-0.87	3,260.5	-5.5	-0.04
2YSBAB		3,179.0	-36.6	-0.39	3,170.2	-95.7	-0.79
37FDES		3,134.6	-81.0	-0.86	3,222.4	-43.6	-0.36
394UME		3,109.4	-106.3	-1.12	3,218.1	-47.9	-0.39
3NJC7V		3,184.4	-31.2	-0.33	3,237.6	-28.4	-0.23
3ZMHKV		3,098.0	-117.6	-1.24	3,098.0	-168.0	-1.38
56T5A8		3,220.8	5.2	0.05	3,341.2	75.2	0.62
5F4SCV		3,160.0	-55.6	-0.59	3,220.0	-46.0	-0.38
676HKA		3,062.6	-153.0	-1.62	3,094.2	-171.8	-1.41
6JWQ8S		3,278.4	62.8	0.66	3,195.2	-70.8	-0.58
6TWYFW		3,228.3	12.6	0.13	3,247.4	-18.5	-0.15
6WY24C	*	3,361.7	146.0	1.54	3,574.1	308.1	2.53
7METMP		3,375.4	159.8	1.69	3,387.8	121.8	1.00
AL9VSX		3,304.6	89.0	0.94	3,320.6	54.6	0.45
B58B4Z	X	2,356.9	-858.7	-9.07	2,982.9	-283.1	-2.32
BGAUB1		3,389.9	174.2	1.84	3,505.0	239.1	1.96
CSA93Y		3,129.6	-86.1	-0.91	3,196.3	-69.6	-0.57
DM5DWP		3,423.8	208.1	2.20	3,449.6	183.6	1.51
DXEG2D	X	2,845.7	-370.0	-3.91	2,825.4	-440.6	-3.61
DY54C9		3,231.5	15.8	0.17	3,275.0	9.0	0.07
EEY431		3,088.0	-127.6	-1.35	3,068.0	-198.0	-1.62
EMTSHY		3,185.5	-30.2	-0.32	3,136.8	-129.1	-1.06
EYB52P		3,129.9	-85.7	-0.91	3,176.4	-89.6	-0.73
F5D5Z3		3,209.8	-5.8	-0.06	3,297.2	31.2	0.26
F8VAUR		3,370.2	154.6	1.63	3,402.8	136.8	1.12
FGUQQR		3,214.1	-1.6	-0.02	3,373.6	107.6	0.88
FTYJTH	X	192.6	-3,023.0	-31.93	204.8	-3,061.2	-25.11
FW8YP9		3,292.6	77.0	0.81	3,323.9	57.9	0.48
FZC8WA		3,092.0	-123.6	-1.31	3,264.0	-2.0	-0.02
GBXL9R		3,349.4	133.8	1.41	3,359.8	93.8	0.77
GGLAQV		3,239.8	24.2	0.26	3,445.6	179.6	1.47

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

WebCode	Data Flag	Sample F63			Sample F64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
H8EMYH		3,225.2	9.6	0.10	3,272.6	6.6	0.05
HML8G6		3,248.8	33.2	0.35	3,158.4	-107.6	-0.88
HU31UK		3,203.0	-12.6	-0.13	3,350.9	84.9	0.70
KHMHJX		3,161.4	-54.2	-0.57	3,345.4	79.4	0.65
KPS1V5		3,297.5	81.9	0.87	3,243.9	-22.1	-0.18
LCATFF		3,152.7	-63.0	-0.67	3,246.8	-19.1	-0.16
LJYB1J		3,230.0	14.4	0.15	3,279.8	13.8	0.11
LQA767		3,075.6	-140.0	-1.48	3,113.3	-152.6	-1.25
M1EYRZ		3,159.6	-56.0	-0.59	3,094.4	-171.6	-1.41
MAS8RK		3,153.4	-62.2	-0.66	3,196.2	-69.8	-0.57
MBNZPC		3,272.6	57.0	0.60	3,272.4	6.4	0.05
NSD34L	X	2,761.5	-454.1	-4.80	2,706.4	-559.5	-4.59
QDDDP5		3,149.6	-66.0	-0.70	3,186.8	-79.2	-0.65
QONLY1D	X	1,146.6	-2,069.0	-21.86	1,028.4	-2,237.6	-18.35
RSXJSE		3,211.8	-3.8	-0.04	3,287.8	21.8	0.18
SDLE7Y	X	2,813.8	-401.9	-4.25	2,833.8	-432.2	-3.54
TAX1F3		3,026.8	-188.8	-1.99	3,044.6	-221.4	-1.82
TAZFK8		3,246.2	30.6	0.32	3,241.0	-25.0	-0.20
UD53C5		3,249.8	34.2	0.36	3,204.0	-62.0	-0.51
V45X52		3,196.1	-19.6	-0.21	3,271.5	5.5	0.05
VZJNC2		3,279.8	64.2	0.68	3,352.4	86.4	0.71
XAJBYX		3,296.4	80.8	0.85	3,341.0	75.0	0.62
XED6XK		3,417.6	202.0	2.13	3,491.0	225.0	1.85
XP55NA		3,166.8	-48.9	-0.52	3,111.1	-154.9	-1.27
XRKMF2		3,225.8	10.2	0.11	3,222.2	-43.8	-0.36
XXZ2W7	*	3,350.6	135.0	1.43	3,564.4	298.4	2.45
Y4KKLT		3,095.1	-120.5	-1.27	3,164.8	-101.2	-0.83
Y69R44		3,103.8	-111.8	-1.18	3,103.8	-162.1	-1.33
YEE9BV		3,248.0	32.4	0.34	3,243.4	-22.6	-0.19
YRDZBT		3,295.3	79.6	0.84	3,414.2	148.3	1.22
YUTYNG	X	3,268.3	52.7	0.56	3,735.0	469.1	3.85
ZYN31L	X	4,046.4	830.8	8.78	4,233.4	967.4	7.93

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

Summary Statistics	
Grand Means	
3,215.64 psi	3,265.96 psi
Std Dev Btwn Labs	
94.66 psi	121.93 psi
Statistics based on 56 of 64 reporting participants	

Sample F63: HIPS & **Sample F64:** HIPS

Comments on assigned Data Flags for Test #705

B58B4Z (X) - Inconsistent in testing between samples, data for Sample F63 are low. Also inconsistent in testing within both sample sets.

DXEG2D (X) - Data for both samples are low. Possible Systematic Error.

FTYJTH (X) - Extreme data.

NSD34L (X) - Data for both samples are low.

QONLY1D (X) - Data for both samples are low.

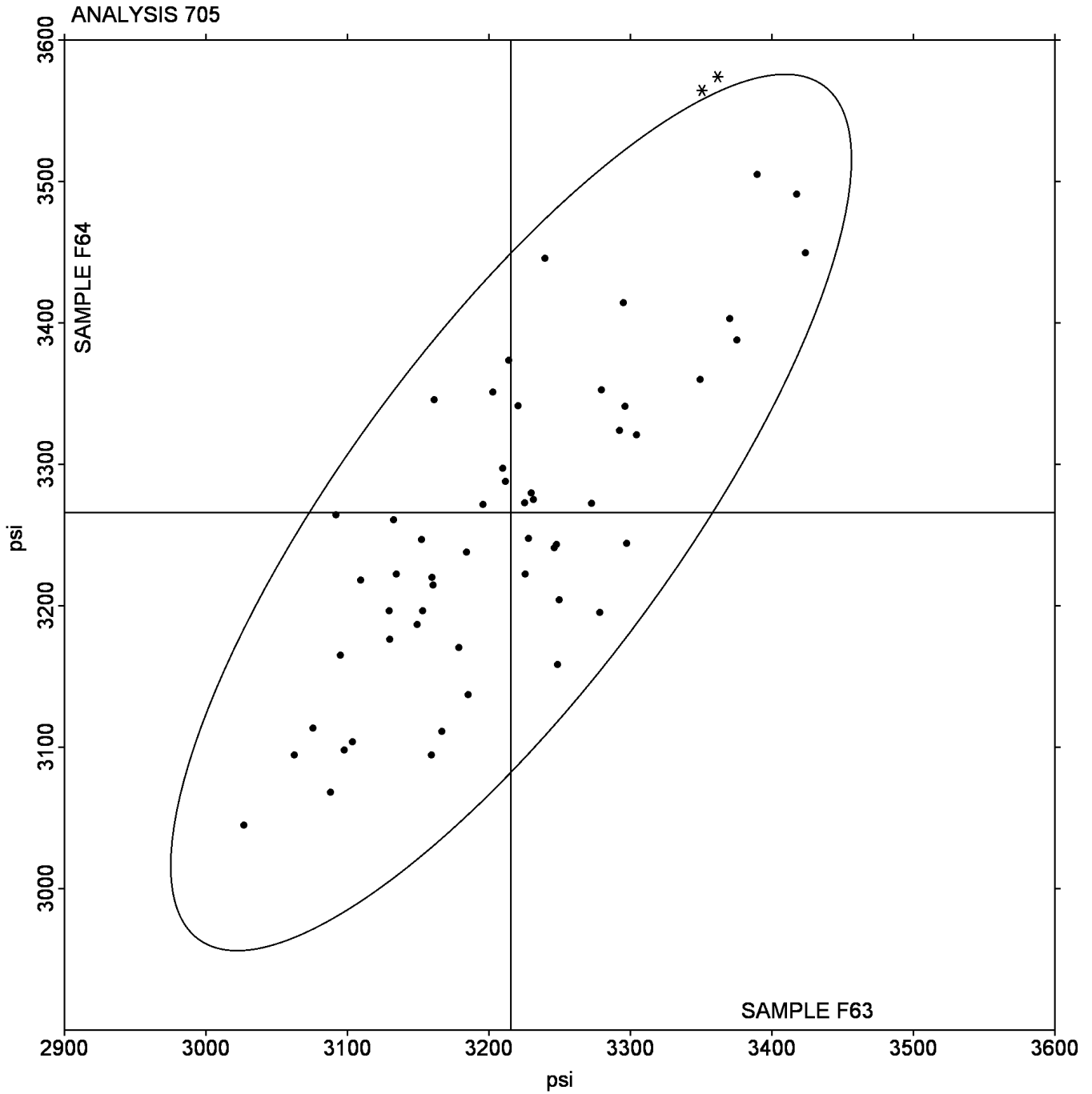
SDLE7Y (X) - Data for both samples are low. Possible Systematic Error.

YUTYNG (X) - Inconsistent in testing between samples, data for Sample F64 are high. Also inconsistent in testing within Sample F64.

ZYN31L (X) - Data for both samples are high.

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

Grand Mean Sample F63: 3,215.64 psi Grand Mean Sample F64: 3,265.96 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 F63			Sample F64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
13ASNX		1.506	-0.025	-0.31	1.480	-0.069	-0.79
1R3FGF		1.494	-0.037	-0.46	1.422	-0.127	-1.46
25VKWY		1.410	-0.121	-1.49	1.500	-0.049	-0.56
2E3TKY		1.442	-0.089	-1.09	1.485	-0.064	-0.74
2JPDYR		1.540	0.009	0.11	1.556	0.007	0.08
2N6G93	X	0.898	-0.633	-7.76	0.946	-0.603	-6.92
4B8ABP	X	2.398	0.867	10.61	2.422	0.873	10.01
5GD8H8		1.596	0.065	0.79	1.616	0.067	0.77
5TDU6K		1.524	-0.007	-0.09	1.522	-0.027	-0.31
5XXNKY		1.506	-0.025	-0.31	1.478	-0.071	-0.82
7121PV		1.500	-0.031	-0.38	1.554	0.005	0.06
7CJF6N	X	1.826	0.295	3.61	1.920	0.371	4.25
7VTMYK		1.488	-0.043	-0.53	1.478	-0.071	-0.82
8TKQ89	*	1.400	-0.131	-1.61	1.518	-0.031	-0.35
A393QW		1.596	0.065	0.79	1.648	0.099	1.13
A4WYMC		1.536	0.005	0.06	1.546	-0.003	-0.04
AD26HX		1.506	-0.025	-0.31	1.516	-0.033	-0.38
AJN8GN	X	2.726	1.195	14.63	2.706	1.157	13.27
AY8HK6		1.614	0.083	1.01	1.648	0.099	1.13
B31ZGW		1.732	0.201	2.46	1.740	0.191	2.19
BBML93	*	1.296	-0.235	-2.88	1.312	-0.238	-2.72
BJWLER		1.584	0.053	0.65	1.562	0.013	0.15
CRRK9S	X	1.964	0.433	5.30	1.512	-0.037	-0.43
DTZ2BM		1.534	0.003	0.03	1.560	0.011	0.12
DZT6VX		1.570	0.039	0.47	1.638	0.089	1.02
ESNH7J	X	1.378	-0.153	-1.88	1.542	-0.007	-0.08
EUHF4A		1.534	0.003	0.03	1.530	-0.019	-0.22
F7EKJF		1.544	0.013	0.16	1.558	0.009	0.10
F7M7ZF		1.420	-0.111	-1.36	1.460	-0.089	-1.02
G66A5V	X	1.584	0.053	0.65	1.388	-0.161	-1.85
GZ3GXX		1.602	0.071	0.87	1.590	0.041	0.47
H2PZUG		1.606	0.075	0.91	1.624	0.075	0.86

**Plastics Interlaboratory Testing Program
Analysis 706**

Percent Elongation at Yield - Percent

WebCode	Data Flag	Sample F63			Sample F64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
H72K3N		1.448	-0.083	-1.02	1.396	-0.153	-1.76
JVKS1E		1.536	0.005	0.06	1.548	-0.001	-0.01
MC594S		1.524	-0.007	-0.09	1.579	0.030	0.34
MMKFA2	X	1.134	-0.397	-4.86	1.126	-0.423	-4.85
N3CX4B		1.582	0.051	0.62	1.546	-0.003	-0.03
NBPEV5		1.452	-0.079	-0.97	1.386	-0.163	-1.87
Q5HU9R		1.640	0.109	1.33	1.668	0.119	1.36
QKSBUS		1.622	0.091	1.11	1.668	0.119	1.36
RF1766		1.590	0.059	0.72	1.594	0.045	0.51
TFFH66		1.572	0.041	0.50	1.548	-0.001	-0.01
THNJ43		1.614	0.083	1.01	1.590	0.041	0.47
THT3FT		1.648	0.117	1.43	1.696	0.147	1.68
TV31KE		1.356	-0.175	-2.15	1.390	-0.159	-1.82
TZ9Z9K		1.600	0.069	0.84	1.634	0.085	0.97
UMS3MM	X	2.206	0.675	8.26	2.262	0.713	8.17
USHKYC		1.542	0.011	0.13	1.616	0.067	0.77
VQS4CP		1.498	-0.033	-0.41	1.500	-0.049	-0.56
XX4UVL		1.610	0.079	0.96	1.640	0.091	1.04
XYHADT		1.520	-0.011	-0.14	1.560	0.011	0.12
Y8WCU6		1.534	0.003	0.03	1.556	0.007	0.08
YCX9P7		1.538	0.007	0.08	1.606	0.057	0.65
YSQGP7		1.504	-0.027	-0.33	1.484	-0.065	-0.75
ZYJSYN		1.430	-0.101	-1.24	1.514	-0.035	-0.40

Summary Statistics			
Grand Means	1.5313	Percent	1.5491
			Percent
Std Dev Btwn Labs	0.0817	Percent	0.0872
			Percent
Statistics based on 46 of 55 reporting participants			

Sample F63: HIPS & Sample F64: HIPS

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

Comments on assigned Data Flags for Test #706

2N6G93 (X) - Data for both samples are low.

4B8ABP (X) - Data for both samples are high.

7CJF6N (X) - Data for both samples are high.

AJN8GN (X) - Data for both samples are high.

CRRK9S (X) - Inconsistent in testing between samples, data for Sample F63 are high. Also inconsistent in testing within Sample F63.

ESNH7J (X) - Inconsistent in testing between samples.

G66A5V (X) - Inconsistent in testing between samples, data for Sample F63 are high.

MMKFA2 (X) - Data for both samples are low.

UMS3MM (X) - Data for both samples are high.

Plastics Interlaboratory Testing Program
Analysis 708
Modulus of Elasticity - ksi

WebCode	Data Flag	Sample F63			Sample F64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1Q8QCM	*	377.59	66.25	2.13	366.35	54.23	1.64
1W3NDQ	X	339.00	27.67	0.89	311.38	-0.74	-0.02
2GJPY3	X	295,992.80	295,681.47	9,494.67	298,729.60	298,417.48	9,008.62
2KUC68	X	366.08	54.75	1.76	402.24	90.12	2.72
2R8KVY		304.84	-6.49	-0.21	298.92	-13.20	-0.40
31NCLE		297.64	-13.69	-0.44	299.56	-12.56	-0.38
39QCNE		316.38	5.05	0.16	320.34	8.22	0.25
5WMGZN		234.30	-77.04	-2.47	233.08	-79.05	-2.39
5ZN4FS		313.78	2.45	0.08	314.24	2.12	0.06
6MNUBQ		350.93	39.60	1.27	358.70	46.58	1.41
7W4LUE		293.00	-18.33	-0.59	296.00	-16.12	-0.49
7ZRY2W		288.54	-22.79	-0.73	294.78	-17.35	-0.52
8SWK22		332.75	21.42	0.69	320.36	8.23	0.25
9DL535		315.81	4.48	0.14	312.69	0.56	0.02
9M1B9F		354.04	42.71	1.37	368.95	56.83	1.72
CDBVWU		316.48	5.14	0.17	318.77	6.64	0.20
CGRZCJ		298.34	-12.99	-0.42	299.70	-12.42	-0.38
CW7XK5		309.55	-1.78	-0.06	296.23	-15.89	-0.48
DGGHPR	X	250.01	-61.32	-1.97	311.94	-0.18	-0.01
E9JQSN		372.90	61.57	1.98	371.80	59.68	1.80
ET666P		284.21	-27.13	-0.87	285.45	-26.68	-0.81
F53MGB		315.46	4.13	0.13	320.16	8.04	0.24
F6BD8M	*	380.60	69.27	2.22	399.00	86.88	2.62
G62XDS		311.37	0.04	0.00	318.82	6.70	0.20
H2Y3WW		285.80	-25.53	-0.82	285.85	-26.28	-0.79
H85ZVG	*	226.00	-85.33	-2.74	231.00	-81.12	-2.45
HRR3SF		319.38	8.05	0.26	315.37	3.25	0.10
JEM1HX		295.48	-15.85	-0.51	307.62	-4.50	-0.14
JNWPJ5		316.07	4.74	0.15	313.52	1.39	0.04
JQ2EH8		287.82	-23.52	-0.76	292.34	-19.78	-0.60
JYQVNF		320.44	9.11	0.29	324.10	11.98	0.36
K8J79N		322.08	10.75	0.35	308.74	-3.38	-0.10

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

WebCode	Data Flag	Sample F63			Sample F64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
K8X4BF		378.47	67.13	2.16	386.17	74.04	2.24
KDX8MZ		313.12	1.79	0.06	312.70	0.58	0.02
LJBXE		303.60	-7.73	-0.25	306.60	-5.52	-0.17
LKVN3D		333.77	22.44	0.72	337.92	25.80	0.78
M69SZM		303.30	-8.03	-0.26	302.90	-9.22	-0.28
MM2XJU		281.28	-30.05	-0.97	278.50	-33.62	-1.02
N5JR6A	X	470.71	159.38	5.12	346.79	34.66	1.05
PBMNH1		321.50	10.17	0.33	313.64	1.52	0.05
QQFWX8		312.24	0.91	0.03	312.44	0.32	0.01
REVL7		312.26	0.93	0.03	317.18	5.06	0.15
RR3NVB		308.20	-3.13	-0.10	316.02	3.90	0.12
SE6U7K		327.61	16.28	0.52	333.50	21.38	0.65
SLLA8N		299.77	-11.57	-0.37	301.42	-10.70	-0.32
TAKXWU		325.85	14.52	0.47	322.15	10.02	0.30
TZELD1		290.72	-20.61	-0.66	273.12	-39.00	-1.18
UP56FJ		309.60	-1.73	-0.06	315.30	3.18	0.10
V8QKE1		256.06	-55.27	-1.77	247.56	-64.56	-1.95
V8UQ7W		301.80	-9.53	-0.31	298.40	-13.72	-0.41
WM9PHA		330.76	19.43	0.62	340.04	27.92	0.84
YJLH5X		279.90	-31.43	-1.01	281.40	-30.72	-0.93
ZPDFFU		312.56	1.23	0.04	312.54	0.42	0.01

Summary Statistics	
Grand Means	
311.332 ksi	312.123 ksi
Std Dev Btwn Labs	
31.142 ksi	33.126 ksi
Statistics based on 48 of 53 reporting participants	

Sample F63: HIPS & Sample F64: HIPS

Plastics Interlaboratory Testing Program
Analysis 708
Modulus of Elasticity - ksi

Comments on assigned Data Flags for Test #708

1W3NDQ (X) - Inconsistent in testing between samples.

2GJPY3 (X) - Extreme data. Lab previously reported in ksi, but data appear to be reported in psi.

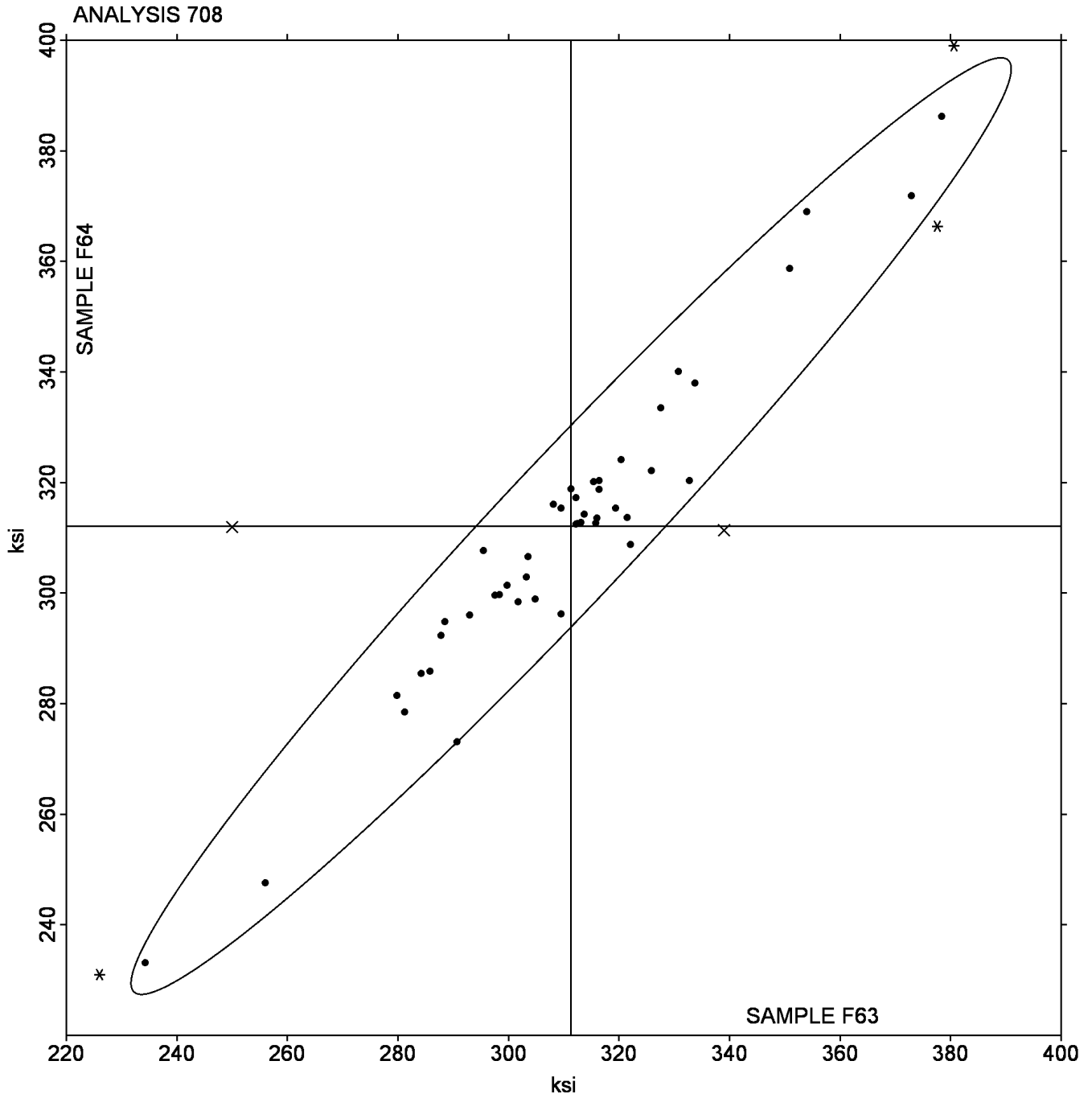
2KUC68 (X) - Inconsistent in testing between samples, data for Sample F64 are high. Also inconsistent in testing within both sample sets.

DGGHPR (X) - Inconsistent in testing between samples.

N5JR6A (X) - Inconsistent in testing between samples, data for Sample F63 are high. Also inconsistent in testing within Sample F64.

Plastics Interlaboratory Testing Program
Analysis 708
Modulus of Elasticity - ksi

Grand Mean Sample F63: 311.33 ksi Grand Mean Sample F64: 312.12 ksi



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

Analysis 730

Tensile Stress at Yield - MPa

WebCode	Data Flag	Sample C63			Sample C64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1DCPS6		29.54	1.14	1.09	29.57	1.22	1.03
47DFP9		28.35	-0.05	-0.04	28.44	0.09	0.07
4MLEHK	*	27.06	-1.34	-1.28	28.80	0.45	0.38
5977VD	*	27.66	-0.74	-0.71	29.32	0.97	0.82
5CL1ES		28.30	-0.10	-0.10	28.62	0.27	0.23
5E3KQV		28.16	-0.24	-0.23	28.26	-0.09	-0.07
5MMQXP		28.25	-0.15	-0.14	28.05	-0.30	-0.26
7ZZT1W		30.07	1.67	1.60	29.47	1.12	0.95
9AHU6N		28.97	0.57	0.55	28.25	-0.10	-0.08
B5XBHR		27.60	-0.80	-0.76	26.99	-1.36	-1.16
CCJTE6		28.18	-0.22	-0.21	28.36	0.01	0.01
DDVTTS		27.77	-0.63	-0.61	27.67	-0.68	-0.58
DH7DMD		29.09	0.69	0.66	29.13	0.78	0.66
DYM9G1		29.83	1.43	1.36	30.19	1.84	1.56
E6C11T		29.23	0.83	0.80	28.59	0.24	0.20
FA8GED		28.78	0.38	0.37	27.99	-0.36	-0.30
G1UHWG		29.12	0.72	0.69	29.35	1.00	0.85
GG1TD8		26.10	-2.30	-2.19	25.48	-2.87	-2.44
GSRG23		28.51	0.11	0.10	28.76	0.41	0.35
H318R3		28.40	0.00	0.00	28.68	0.33	0.28
HCLCNG		28.60	0.20	0.19	28.36	0.01	0.01
JCA4VE		29.07	0.67	0.64	29.09	0.74	0.63
K9JLW1		27.86	-0.54	-0.51	27.52	-0.83	-0.70
KTE7LY		27.06	-1.34	-1.28	26.66	-1.69	-1.44
KTMVVS		29.36	0.96	0.92	29.25	0.90	0.76
LJYGD7		28.12	-0.28	-0.26	29.53	1.18	1.00
M9JPUG		29.78	1.38	1.32	29.89	1.54	1.31
P1W5ME		28.60	0.20	0.19	29.13	0.78	0.66
P8ZJUH		29.29	0.89	0.85	28.72	0.37	0.31
PJS1XB		28.93	0.53	0.51	28.06	-0.29	-0.25
PYPDB7		28.28	-0.12	-0.11	28.30	-0.05	-0.04
QCJ4MA		28.99	0.59	0.56	29.11	0.76	0.64

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

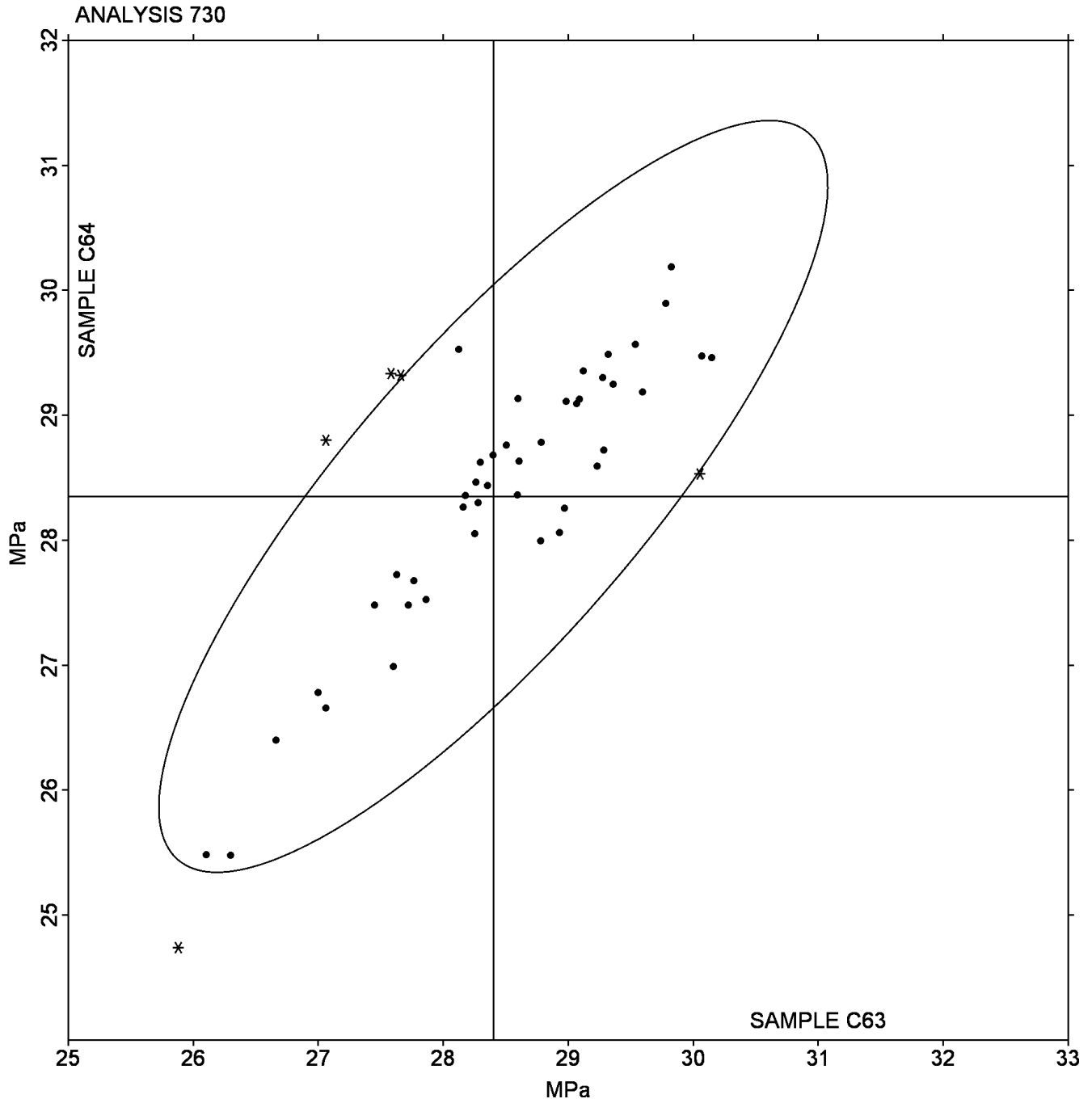
WebCode	Data Flag	Sample C63			Sample C64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
QDA5L7		28.79	0.39	0.37	28.78	0.43	0.37
R4GF55	*	25.88	-2.52	-2.41	24.74	-3.61	-3.07
RD5EQ8		29.32	0.92	0.88	29.48	1.13	0.96
RWVMB5		30.15	1.75	1.67	29.46	1.11	0.94
S6BTNL		27.72	-0.68	-0.65	27.48	-0.87	-0.74
T16MCW		27.00	-1.40	-1.34	26.78	-1.57	-1.34
TRD9HH	*	30.05	1.65	1.58	28.53	0.18	0.15
UM966F		27.63	-0.77	-0.74	27.72	-0.63	-0.53
VCFHLX		29.28	0.88	0.84	29.30	0.95	0.81
WGJVJU		26.30	-2.10	-2.01	25.48	-2.87	-2.44
WP8E9G		29.60	1.20	1.14	29.19	0.83	0.71
XTKRJ3	*	27.58	-0.82	-0.78	29.33	0.98	0.84
XVRVA6		28.26	-0.14	-0.13	28.46	0.11	0.09
XW8H5C		28.61	0.21	0.20	28.63	0.28	0.24
Y4KUMH		26.66	-1.74	-1.66	26.40	-1.95	-1.66
YET8CC		27.45	-0.95	-0.91	27.48	-0.87	-0.74

Summary Statistics	
Grand Means	
28.400 MPa	28.351 MPa
Std Dev Btwn Labs	
1.046 MPa	1.176 MPa
Statistics based on 48 of 48 reporting participants	

Sample C63: HIPS & Sample C64: HIPS

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

Grand Mean Sample C63: 28.400 MPa Grand Mean Sample C64: 28.351 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 C63			Sample C64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1CKNS9	X	27.63	4.22	7.67	27.72	4.40	5.53
2U7T8L	X	22.68	-0.73	-1.32	24.00	0.68	0.85
4FFQSZ		23.72	0.31	0.57	24.15	0.83	1.04
4QXX8V		24.15	0.74	1.35	25.02	1.70	2.13
5JMD2P		23.11	-0.29	-0.53	23.35	0.03	0.03
6G8915		23.11	-0.29	-0.53	23.08	-0.24	-0.30
7UFFSN		23.48	0.07	0.13	23.66	0.34	0.43
7UH8J4		22.53	-0.87	-1.59	22.82	-0.50	-0.63
A9QT2Q		22.52	-0.88	-1.60	22.26	-1.06	-1.33
B1SUWG	X	22.74	-0.67	-1.21	28.17	4.85	6.09
B847KD		22.50	-0.91	-1.64	22.66	-0.66	-0.82
BEV897		23.42	0.01	0.03	23.01	-0.31	-0.39
CZPRAR		23.92	0.51	0.94	24.36	1.04	1.31
D5XA4H		22.42	-0.99	-1.79	21.36	-1.96	-2.46
D6BQLQ		22.75	-0.65	-1.19	22.36	-0.96	-1.21
D7SZKH		23.47	0.07	0.12	23.26	-0.06	-0.07
D8LP7K		23.22	-0.18	-0.33	23.48	0.16	0.21
E5AYR9		23.24	-0.17	-0.30	22.54	-0.78	-0.98
E653GG		23.25	-0.16	-0.28	22.10	-1.22	-1.53
FPS663	X	28.78	5.37	9.76	28.74	5.42	6.81
GRQ7QS		24.54	1.13	2.05	24.68	1.36	1.71
HBPEFP		22.62	-0.79	-1.43	22.22	-1.10	-1.38
LJ45ZX		23.47	0.07	0.12	23.30	-0.02	-0.03
M7632G		22.95	-0.45	-0.82	22.53	-0.79	-1.00
NVXZQQ		23.20	-0.20	-0.37	23.28	-0.04	-0.05
PUP3F7		23.74	0.33	0.61	24.18	0.86	1.08
Q468LA		23.82	0.41	0.75	23.00	-0.32	-0.40
SMU9GB		23.18	-0.23	-0.41	23.52	0.20	0.25
UMHNEM		23.54	0.14	0.25	23.36	0.04	0.04
UZH8K8K		24.50	1.09	1.99	24.56	1.24	1.56
VKFS13		24.25	0.84	1.53	24.60	1.28	1.61
VPJ1UY		23.65	0.24	0.44	23.19	-0.13	-0.16

**Plastics Interlaboratory Testing Program
Analysis 731**

Tensile Stress at Break - MPa

WebCode	Data Flag	Sample C63			Sample C64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
WTNVF1		23.53	0.13	0.23	23.15	-0.17	-0.22
X366CT		23.67	0.26	0.48	23.64	0.32	0.40
X9Y2ZH		23.41	0.00	0.00	23.33	0.01	0.01
XG4748		22.98	-0.43	-0.77	23.01	-0.31	-0.39
XHKVPE		23.88	0.47	0.86	23.87	0.55	0.69
XTCMNY	X	24.32	0.91	1.66	29.09	5.77	7.25
Y1W51Y		24.14	0.74	1.34	23.84	0.52	0.65
Z27A8L		23.06	-0.35	-0.63	23.30	-0.02	-0.03
ZFP4L7		23.63	0.22	0.41	23.50	0.18	0.23
ZWZVBH	X	22.10	-1.31	-2.37	23.80	0.48	0.60

Summary Statistics

Grand Means

23.405 MPa

23.320 MPa

Std Dev Btwn Labs

0.551 MPa

0.796 MPa

Statistics based on 36 of 42 reporting participants

Sample C63: HIPS & **Sample C64:** HIPS

Comments on assigned Data Flags for Test #731

1CKNS9 (X) - Data for both samples are high.

2U7T8L (X) - Inconsistent in testing between samples.

B1SUWG (X) - Inconsistent in testing between samples, data for Sample C64 are high. Also inconsistent in testing within sample C64.

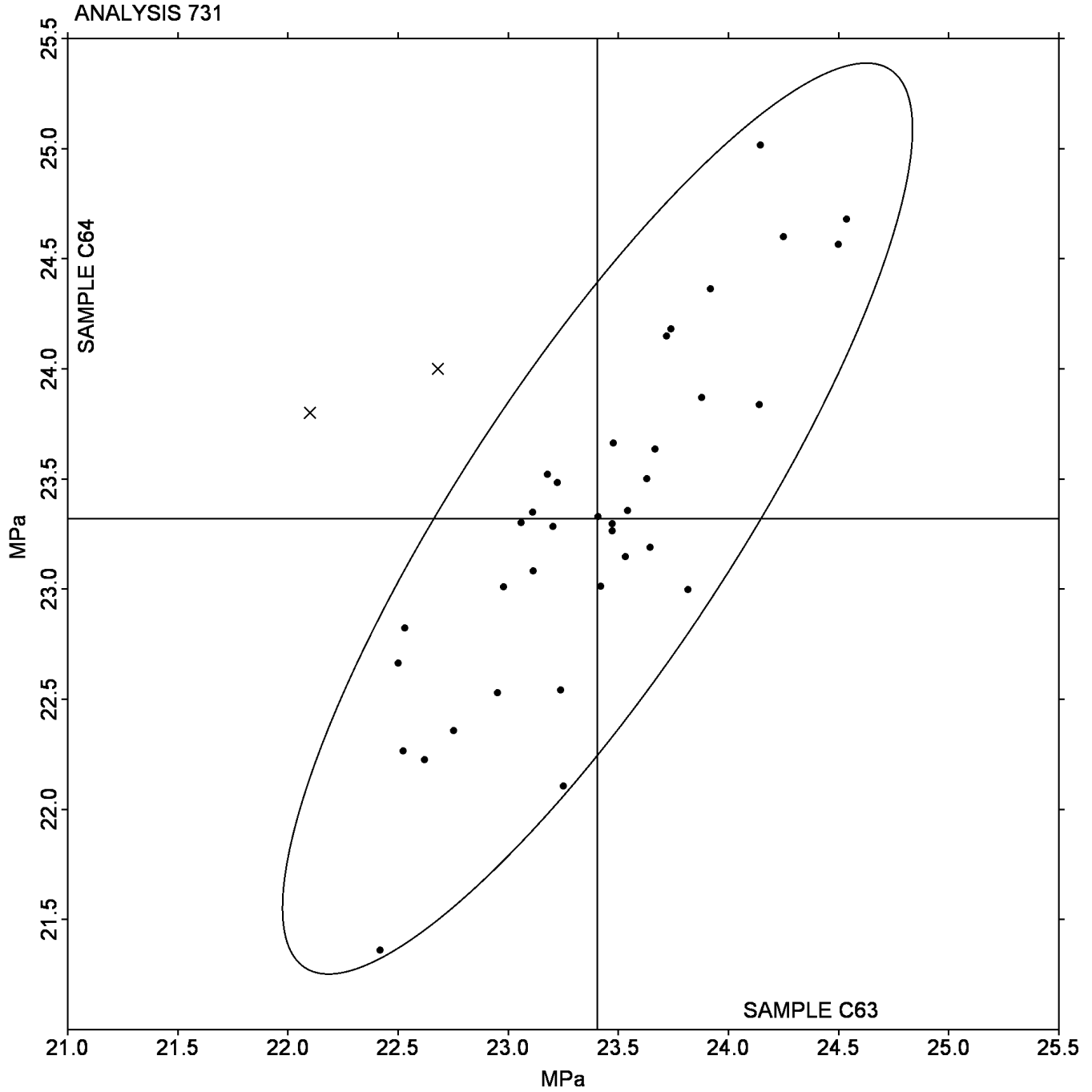
FPS663 (X) - Data for both samples are high.

XTCMNY (X) - Inconsistent in testing between samples, data for Sample C63 are high.

ZWZVBH (X) - Inconsistent in testing between samples.

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

Grand Mean Sample C63: 23.405 MPa Grand Mean Sample C64: 23.320 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 C63			Sample C64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
4ZLXGT		1.492	-0.028	-0.33	1.446	-0.067	-0.70
511ETY		1.510	-0.010	-0.11	1.476	-0.037	-0.38
524YZ1		1.552	0.032	0.38	1.544	0.031	0.33
7QT2KE		1.500	-0.020	-0.23	1.500	-0.013	-0.13
7XBCT9		1.606	0.086	1.01	1.604	0.091	0.95
8W1PAN	*	1.382	-0.138	-1.62	1.298	-0.215	-2.24
B49CLS		1.508	-0.012	-0.14	1.508	-0.005	-0.05
BH1JDN		1.506	-0.014	-0.16	1.498	-0.015	-0.15
C3ZDC4	X	1.838	0.318	3.74	1.596	0.083	0.87
C9BQ2W		1.358	-0.162	-1.90	1.324	-0.189	-1.97
CMB4SM		1.640	0.120	1.41	1.636	0.123	1.29
DQRX5Y		1.556	0.036	0.43	1.608	0.095	0.99
EF2KNE	X	2.074	0.554	6.52	2.150	0.637	6.66
EGFH33		1.554	0.034	0.40	1.564	0.051	0.53
GAECUR	*	1.706	0.186	2.19	1.658	0.145	1.52
J4R4YP		1.516	-0.004	-0.04	1.542	0.029	0.30
KMCRGK		1.548	0.028	0.33	1.554	0.041	0.43
L3TL26		1.536	0.016	0.19	1.554	0.041	0.43
L737QX		1.420	-0.100	-1.17	1.440	-0.073	-0.76
MBCZ44	X	2.194	0.674	7.93	2.232	0.719	7.51
MX468T		1.554	0.034	0.40	1.586	0.073	0.76
PDW5YQ	*	1.338	-0.182	-2.14	1.270	-0.243	-2.54
PVF8EK	X	2.736	1.216	14.30	2.690	1.177	12.30
Q1KH5D		1.470	-0.050	-0.58	1.476	-0.037	-0.38
Q48U64		1.576	0.056	0.66	1.552	0.039	0.41
QM8BGE		1.554	0.035	0.41	1.556	0.043	0.45
QZRS2K		1.516	-0.004	-0.04	1.448	-0.065	-0.68
RCJHT4		1.474	-0.046	-0.54	1.478	-0.035	-0.36
SL39HE		1.488	-0.032	-0.37	1.512	-0.001	-0.01
UT82GZ		1.436	-0.084	-0.98	1.476	-0.037	-0.38
VF1QUT		1.500	-0.020	-0.23	1.500	-0.013	-0.13
VGC2S3		1.652	0.132	1.56	1.604	0.091	0.95

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

WebCode	Data Flag	Sample C63			Sample C64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
WLWSWJ		1.706	0.186	2.19	1.714	0.201	2.10
WPPKK1		1.462	-0.058	-0.68	1.440	-0.073	-0.76
XF3ENM		1.500	-0.020	-0.23	1.500	-0.013	-0.13
XFHDQ4		1.622	0.102	1.20	1.650	0.137	1.43
XHQT8V		1.406	-0.114	-1.34	1.396	-0.117	-1.22
XPDBSY		1.497	-0.023	-0.27	1.491	-0.022	-0.23
XSTHJ1		1.576	0.056	0.66	1.562	0.050	0.52
Z91V4G		1.492	-0.028	-0.33	1.496	-0.017	-0.18

Summary Statistics			
Grand Means	1.5197	Percent	1.5128
			Percent
Std Dev Btwn Labs	0.0850	Percent	0.0957
			Percent
Statistics based on 36 of 40 reporting participants			

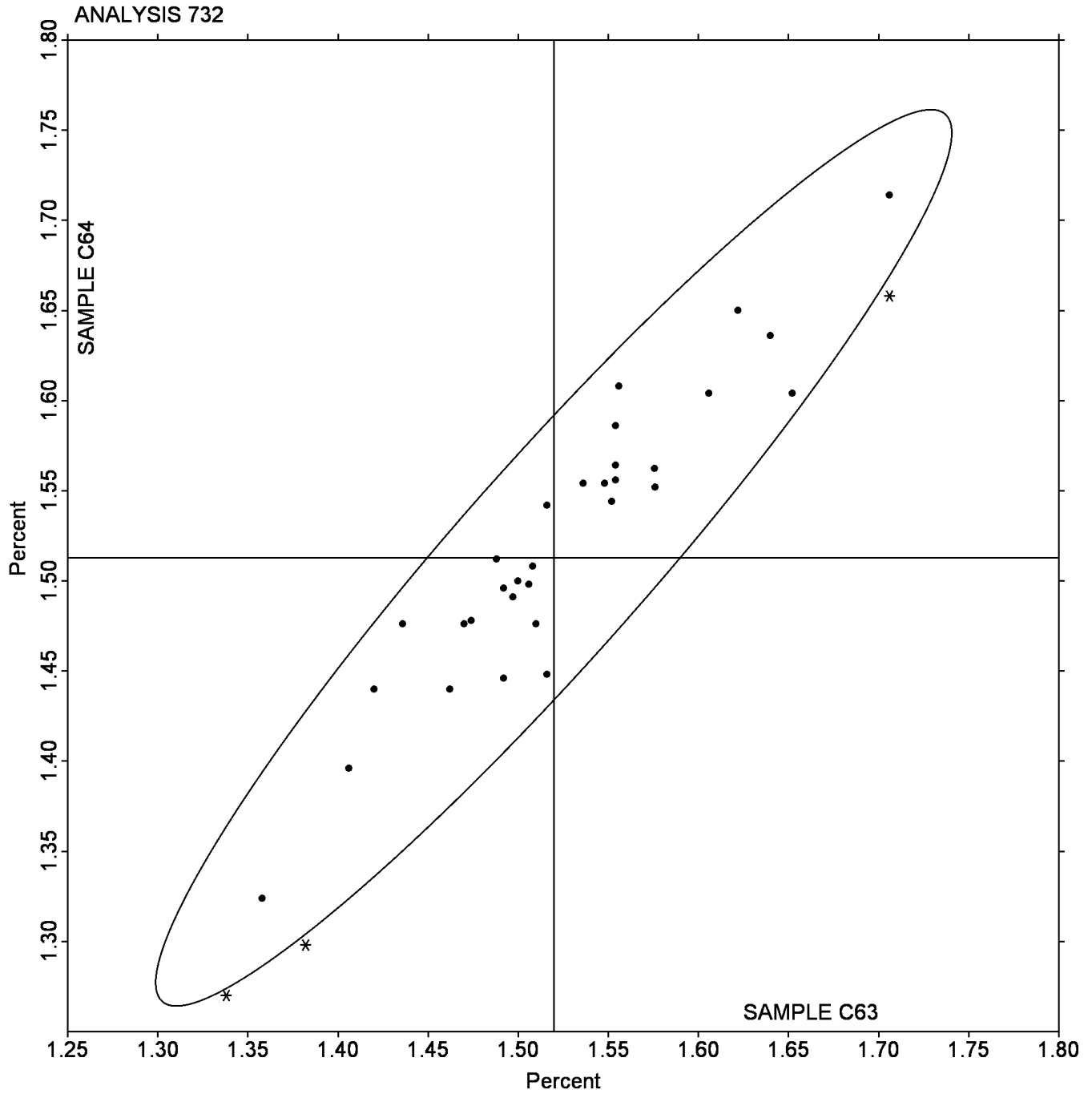
Sample C63: HIPS & **Sample C64:** HIPS

Comments on assigned Data Flags for Test #732

- C3ZDC4 (X) - Inconsistent in testing between samples, data for Sample C63 are high. Also inconsistent in testing within sample C64.
- EF2KNE (X) - Data for both samples are high.
- MBCZ44 (X) - Data for both samples are high.
- PVF8EK (X) - Data for both samples are high.

Plastics Interlaboratory Testing Program
Analysis 732
Percent Strain at Yield

Grand Mean Sample C63: 1.5197 Percent Grand Mean Sample C64: 1.5128 Percent



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

Plastics Interlaboratory Testing Program
Analysis 734
Modulus of Elasticity - MPa

WebCode	Data Flag	Sample C63			Sample C64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
157NNY		2,226	102	1.17	2,211	72	0.72
2F2DQH		2,139	15	0.17	2,200	61	0.61
3ASYTJ		2,094	-30	-0.34	2,126	-13	-0.13
3B79JB		1,972	-152	-1.73	1,982	-157	-1.57
49XD2D		1,971	-153	-1.74	1,981	-158	-1.58
557AVL	X	1,809	-315	-3.58	1,954	-185	-1.85
5A1AB2		2,149	26	0.29	2,158	19	0.19
5SQC7Y		2,155	31	0.35	2,193	54	0.54
5VMSSE		2,200	77	0.87	2,327	188	1.87
5W5SXQ		2,244	120	1.37	2,227	88	0.88
73EWNM		2,093	-31	-0.35	2,147	8	0.08
73JQN2		2,217	93	1.06	2,176	37	0.37
B2B3BH	*	2,166	42	0.48	2,320	181	1.81
BT6E1S		2,110	-14	-0.16	2,108	-31	-0.31
BU3D7J		2,231	107	1.22	2,182	43	0.43
DFFWKY		2,222	98	1.12	2,219	80	0.80
DTYK54		2,115	-9	-0.10	2,115	-24	-0.24
GFACCD		1,919	-204	-2.33	1,939	-200	-2.00
GN5NFG		2,181	57	0.65	2,271	132	1.32
GYQ82K		2,064	-60	-0.69	2,018	-121	-1.20
JJNFCK		2,139	16	0.18	2,130	-9	-0.09
L7RY6J		2,103	-21	-0.24	2,079	-60	-0.60
LJYCSJ		2,140	16	0.18	2,133	-6	-0.06
LV5HHB		2,244	120	1.37	2,228	89	0.89
N1QUGJ		2,145	21	0.24	2,085	-54	-0.54
NK9BBP		2,240	116	1.33	2,172	33	0.33
PAWT3Q		2,129	5	0.06	2,139	0	0.00
QPSYR8		2,183	59	0.68	2,231	92	0.92
QRXE6R		2,033	-91	-1.04	2,177	38	0.38
RMWX4G		2,018	-106	-1.21	2,055	-84	-0.84
RPGQY6		2,176	52	0.59	2,214	75	0.75
SG1G12		2,077	-46	-0.53	2,120	-19	-0.19

Plastics Interlaboratory Testing Program
Analysis 734
Modulus of Elasticity - MPa

WebCode	Data Flag	Sample C63			Sample C64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
TZNUS1	X	1,612	-512	-5.83	1,592	-547	-5.46
UR3GRE	X	1,522	-602	-6.86	1,626	-513	-5.13
V6QP8S		2,029	-95	-1.08	2,007	-132	-1.32
VYWZR8		2,122	-2	-0.02	2,149	10	0.10
YX2DLU		1,961	-163	-1.85	1,908	-231	-2.31

Summary Statistics

Grand Means

2,123.7 MPa

2,139.0 MPa

Std Dev Btwn Labs

87.7 MPa

100.1 MPa

Statistics based on 34 of 37 reporting participants

Sample C63: HIPS & **Sample C64:** HIPS

Comments on assigned Data Flags for Test #734

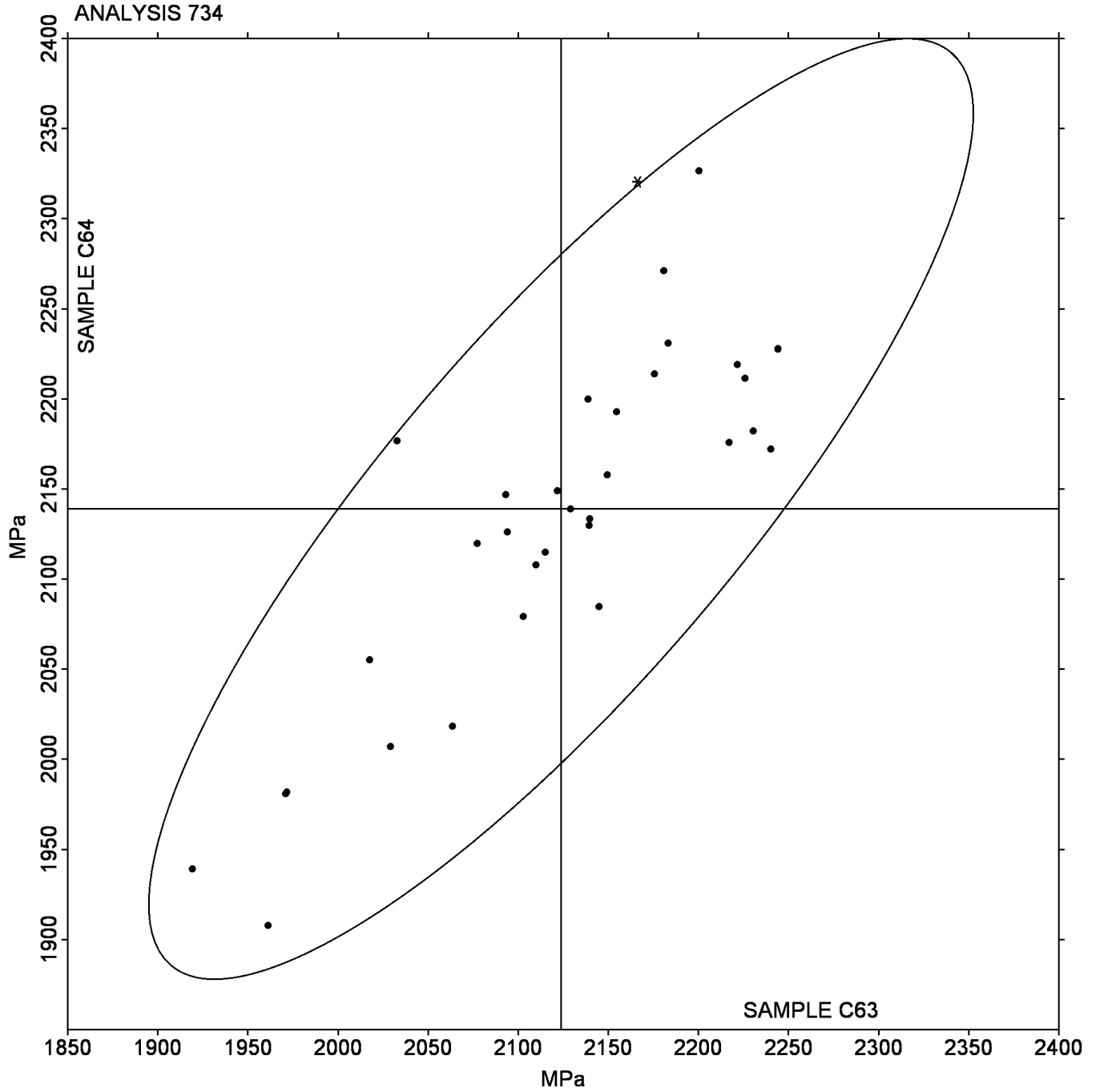
557AVL (X) - Inconsistent in testing between samples, data for Sample C63 are low. Also inconsistent in testing within Sample C63.

TZNUS1 (X) - Data for both samples are low.

UR3GRE (X) - Data for both samples are low.

Plastics Interlaboratory Testing Program
Analysis 734
Modulus of Elasticity - MPa

Grand Mean Sample C63: 2,123.75 MPa Grand Mean Sample C64: 2,138.95 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 J63			Sample J64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1J5W4C		337.8	-30.4	-1.35	338.1	-30.7	-1.39
1UH3UL		337.1	-31.1	-1.38	332.1	-36.7	-1.66
2D51NX		386.0	17.8	0.79	385.2	16.4	0.74
3PE45M		362.0	-6.2	-0.28	367.2	-1.6	-0.07
3YVGY6		377.6	9.4	0.42	377.9	9.1	0.41
45PJ9A		365.9	-2.4	-0.11	364.7	-4.1	-0.19
4KUQPR		368.2	-0.1	0.00	370.6	1.8	0.08
58GLHV		383.7	15.4	0.68	383.2	14.4	0.65
5MGWY9		361.4	-6.8	-0.30	364.2	-4.7	-0.21
5UERS2		366.1	-2.1	-0.09	368.3	-0.6	-0.03
5YR2XV		362.8	-5.4	-0.24	361.3	-7.5	-0.34
61FQVG		365.3	-2.9	-0.13	367.4	-1.5	-0.07
64S61U		352.4	-15.9	-0.71	356.8	-12.0	-0.55
6C8FBE		393.4	25.2	1.12	393.4	24.6	1.11
6CN7DR		369.3	1.1	0.05	365.8	-3.1	-0.14
6PCM7N		362.0	-6.2	-0.28	360.5	-8.4	-0.38
6VL16X		387.2	19.0	0.84	393.4	24.5	1.11
717RWK		373.9	5.6	0.25	375.5	6.6	0.30
77E43J		355.0	-13.3	-0.59	350.9	-17.9	-0.81
78753E	X	355.9	-12.3	-0.55	384.9	16.0	0.73
7BT77K		419.0	50.8	2.25	421.6	52.8	2.39
7R97XJ	*	415.9	47.7	2.12	421.6	52.8	2.39
82X7XF	X	364.7	-3.5	-0.16	2,788.1	2,419.2	109.44
84JMUN		334.3	-34.0	-1.51	339.3	-29.6	-1.34
86QD9W	X	213.8	-154.5	-6.85	281.3	-87.6	-3.96
8NVP82		359.9	-8.4	-0.37	368.6	-0.3	-0.01
8Q5AZT		373.4	5.2	0.23	373.8	5.0	0.22
97QQQQ		369.3	1.1	0.05	369.7	0.8	0.04
AWE7GL		372.6	4.4	0.19	373.9	5.1	0.23
BSNVBM		406.2	38.0	1.68	407.4	38.6	1.74
BV2KKX	*	401.0	32.8	1.45	393.0	24.2	1.09
BVLCCU		396.8	28.6	1.27	400.8	32.0	1.45

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

WebCode	Data Flag	Sample J63			Sample J64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
C7G6SH		372.3	4.1	0.18	370.8	2.0	0.09
CJAKVL		366.6	-1.6	-0.07	359.0	-9.8	-0.44
D4AJKR		403.2	34.9	1.55	405.5	36.7	1.66
DBTFHR		393.7	25.4	1.13	386.8	17.9	0.81
DCM6LK		359.6	-8.7	-0.39	360.9	-8.0	-0.36
DERFH3		381.4	13.1	0.58	380.0	11.2	0.51
DGPDEH		374.1	5.9	0.26	374.2	5.4	0.24
DQ2FPQ		341.7	-26.6	-1.18	342.6	-26.2	-1.19
DQREGG		375.7	7.5	0.33	377.4	8.6	0.39
ETEQ6M		363.2	-5.1	-0.22	365.1	-3.8	-0.17
FYEX18	X	175.4	-192.8	-8.56	169.4	-199.4	-9.02
G7HJD1		326.5	-41.8	-1.85	334.2	-34.6	-1.57
HUZ4BE		348.3	-20.0	-0.89	357.8	-11.1	-0.50
HV3CXL		375.3	7.0	0.31	367.6	-1.3	-0.06
JCRCUG		381.7	13.4	0.60	381.0	12.2	0.55
JK6DTR		383.0	14.7	0.65	381.6	12.8	0.58
KYZ7VJ		357.0	-11.2	-0.50	358.8	-10.0	-0.45
MPT24E		386.5	18.3	0.81	384.6	15.7	0.71
MVBRMH		363.9	-4.4	-0.19	361.3	-7.6	-0.34
NN4VXP		362.7	-5.5	-0.25	359.6	-9.3	-0.42
PEPC7N		358.5	-9.7	-0.43	359.2	-9.6	-0.44
PTTRDC	*	302.6	-65.7	-2.92	301.8	-67.1	-3.03
PZBNV2		355.7	-12.6	-0.56	357.6	-11.2	-0.51
QD5GXV		401.4	33.2	1.47	401.0	32.2	1.45
TF7FQR		411.7	43.5	1.93	405.7	36.8	1.67
U9U2AZ		344.5	-23.7	-1.05	345.2	-23.6	-1.07
UHNCKU	X	374.0	5.8	0.26	391.1	22.3	1.01
UXD7UM		355.8	-12.5	-0.55	360.5	-8.3	-0.38
UXSYFB		364.3	-3.9	-0.17	367.8	-1.0	-0.05
VRJU54		386.4	18.1	0.80	385.3	16.4	0.74
VVV8S4	X	268.2	-100.1	-4.44	313.4	-55.5	-2.51
W21V5A		343.2	-25.1	-1.11	341.8	-27.0	-1.22

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

WebCode	Data Flag	Sample J63			Sample J64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
W2XD1K		362.6	-5.6	-0.25	363.5	-5.3	-0.24
WGMYCS		332.8	-35.5	-1.57	334.9	-33.9	-1.53
WKHF1Y		367.8	-0.5	-0.02	374.2	5.4	0.24
XH6DYF		390.5	22.3	0.99	389.4	20.6	0.93
XN84PT		341.8	-26.4	-1.17	340.5	-28.4	-1.28
XWJZT5	X	357.0	-11.2	-0.50	338.2	-30.6	-1.38
YV4WNS		342.4	-25.8	-1.15	344.6	-24.2	-1.10
ZP3YTM		372.6	4.3	0.19	374.5	5.6	0.25
ZYD37R		338.0	-30.3	-1.34	341.4	-27.4	-1.24

Summary Statistics	
Grand Means	
368.25 ksi	368.85 ksi
Std Dev Btwn Labs	
22.53 ksi	22.10 ksi
Statistics based on 66 of 73 reporting participants	

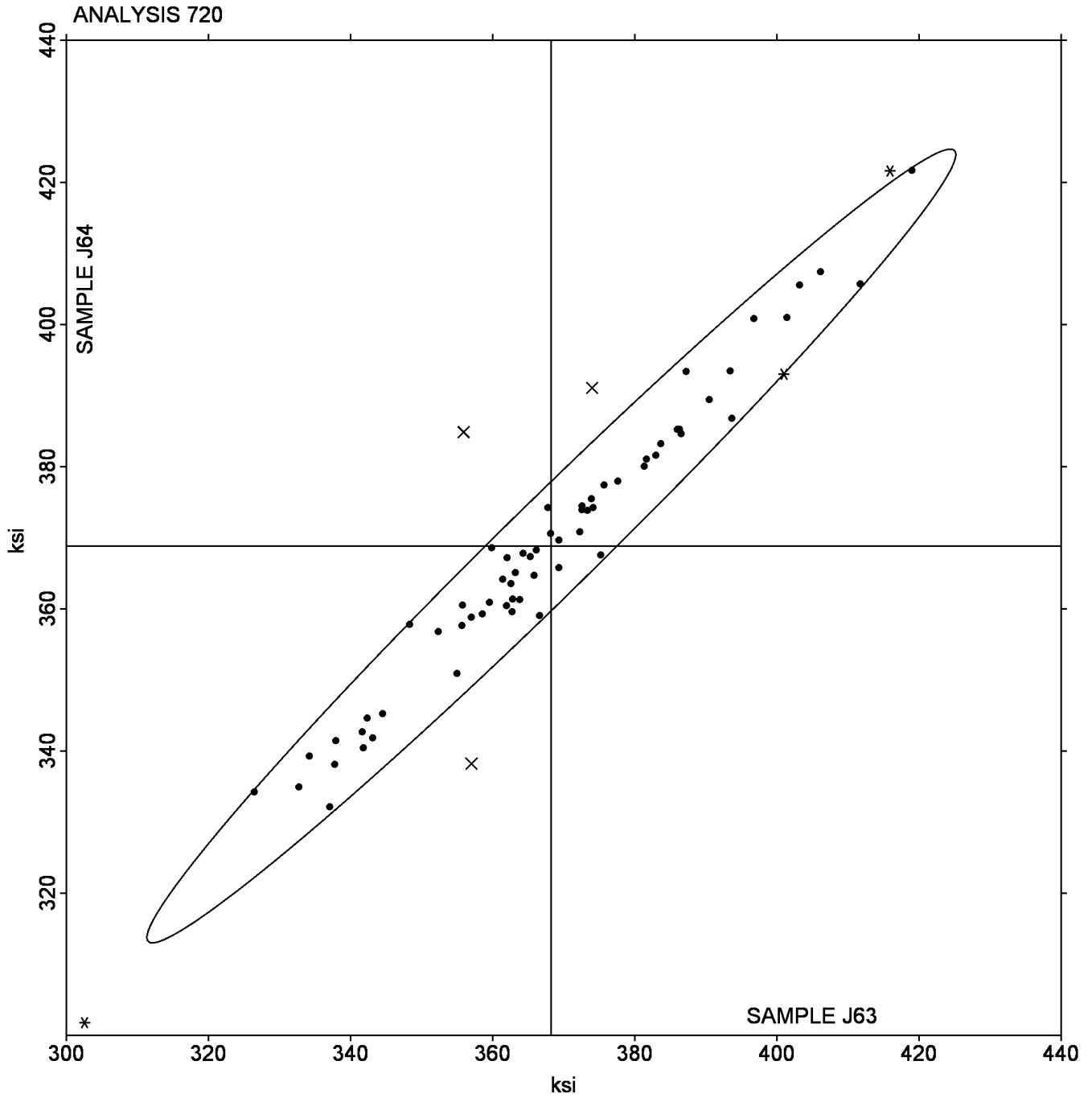
Sample J63: ABS & **Sample J64:** ABS

Comments on assigned Data Flags for Test #720

- 78753E (X) - Inconsistent in testing between samples.
- 82X7XF (X) - Extreme data for sample J64.
- 86QD9W (X) - Data for both samples are low.
- FYEX18 (X) - Data for both samples are low.
- UHNCKU (X) - Inconsistent in testing between samples.
- VV8S4 (X) - Inconsistent in testing between samples, data for Sample J63 are low. Also inconsistent in testing within both sample sets.
- XWJZT5 (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

Grand Mean Sample J63: 368.25 ksi Grand Mean Sample J64: 368.85 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 J63			Sample J64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
29F6HK		11,288	378	0.88	11,252	386	0.89
2AVNJ5		11,062	152	0.35	11,045	179	0.41
2D8JSN	X	223,800	212,890	493.97	223,800	212,934	489.54
2HJNDV		10,899	-11	-0.03	10,752	-114	-0.26
2WE8ER		11,153	243	0.56	11,040	174	0.40
3XDZES		10,123	-787	-1.83	10,165	-701	-1.61
4A8UZ7		11,308	398	0.92	11,258	392	0.90
4LWK5X		9,979	-931	-2.16	9,901	-965	-2.22
6BD3YG	X	9,800	-1,110	-2.58	11,000	134	0.31
76446P		10,907	-3	-0.01	10,765	-101	-0.23
84QKSQ		10,816	-94	-0.22	10,831	-35	-0.08
989BUS		10,715	-195	-0.45	10,744	-121	-0.28
A8MC7D		10,684	-226	-0.53	10,556	-310	-0.71
BCSDK3		10,066	-844	-1.96	9,892	-974	-2.24
C6EGYU		10,750	-160	-0.37	10,499	-367	-0.84
CBWF5M		11,309	399	0.93	11,439	574	1.32
CHCTQL		11,218	308	0.72	11,167	301	0.69
CRJUS7		11,250	340	0.79	11,188	322	0.74
CRM97T		10,821	-89	-0.21	10,843	-23	-0.05
DFKPJC		11,867	957	2.22	11,919	1,053	2.42
DKE5WL		10,600	-310	-0.72	10,611	-255	-0.59
E2KMRR		11,696	786	1.82	11,641	775	1.78
EWN54Y	X	382,920	372,010	863.18	408,800	397,934	914.85
GCX14H		11,449	539	1.25	11,221	355	0.82
J94X4M		11,295	385	0.89	11,097	232	0.53
JD8V32		11,415	505	1.17	11,322	456	1.05
JMS4WG		11,156	246	0.57	11,108	242	0.56
K1Y5TK	X	1,071	-9,839	-22.83	1,226	-9,640	-22.16
K6DEKV		10,429	-481	-1.12	10,364	-502	-1.15
K9Q5AC		11,404	494	1.15	11,156	290	0.67
KUM16K		10,851	-59	-0.14	10,783	-83	-0.19
KY5GXH		10,824	-86	-0.20	10,984	119	0.27

**Plastics Interlaboratory Testing Program
Analysis 721**

Flexural Stress at 5% Strain - psi

WebCode	Data Flag	Sample J63			Sample J64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
LCYBZA		10,888	-22	-0.05	10,947	81	0.19
LVKRM5		10,200	-710	-1.65	10,220	-646	-1.48
LWHPN8		10,914	4	0.01	10,762	-104	-0.24
NC9WMG	*	10,673	-237	-0.55	10,950	84	0.19
NQPBZP		10,814	-96	-0.22	10,745	-120	-0.28
QYE11F		10,454	-456	-1.06	10,294	-572	-1.32
R9GVEK		11,646	736	1.71	11,584	718	1.65
RBM6R9		10,659	-251	-0.58	10,557	-309	-0.71
RD34X5		10,220	-690	-1.60	10,224	-641	-1.47
S4T83Y		10,459	-451	-1.05	10,497	-369	-0.85
TJBKJK		10,932	22	0.05	10,737	-129	-0.30
U9LCKE		11,341	431	1.00	11,299	433	1.00
V8HKV1		11,112	202	0.47	11,010	144	0.33
V9CAZU		11,226	316	0.73	11,420	554	1.27
WDMNGT		10,743	-167	-0.39	10,612	-254	-0.58
WQM5GV		10,712	-198	-0.46	10,709	-157	-0.36
X1LTVG		10,956	46	0.11	11,031	165	0.38
X5HBE2		10,600	-310	-0.72	10,548	-317	-0.73
XV DATG		10,450	-460	-1.07	10,510	-355	-0.82
YAQMX1		10,908	-2	0.00	10,984	118	0.27
Z6LWST		11,350	440	1.02	11,242	376	0.86

Summary Statistics

Grand Means

10,910.0 psi

10,865.9 psi

Std Dev Btwn Labs

431.0 psi

435.0 psi

Statistics based on 49 of 53 reporting participants

Sample J63: ABS & Sample J64: ABS

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

Comments on assigned Data Flags for Test #721

2D8JSN (X) - Extreme data.

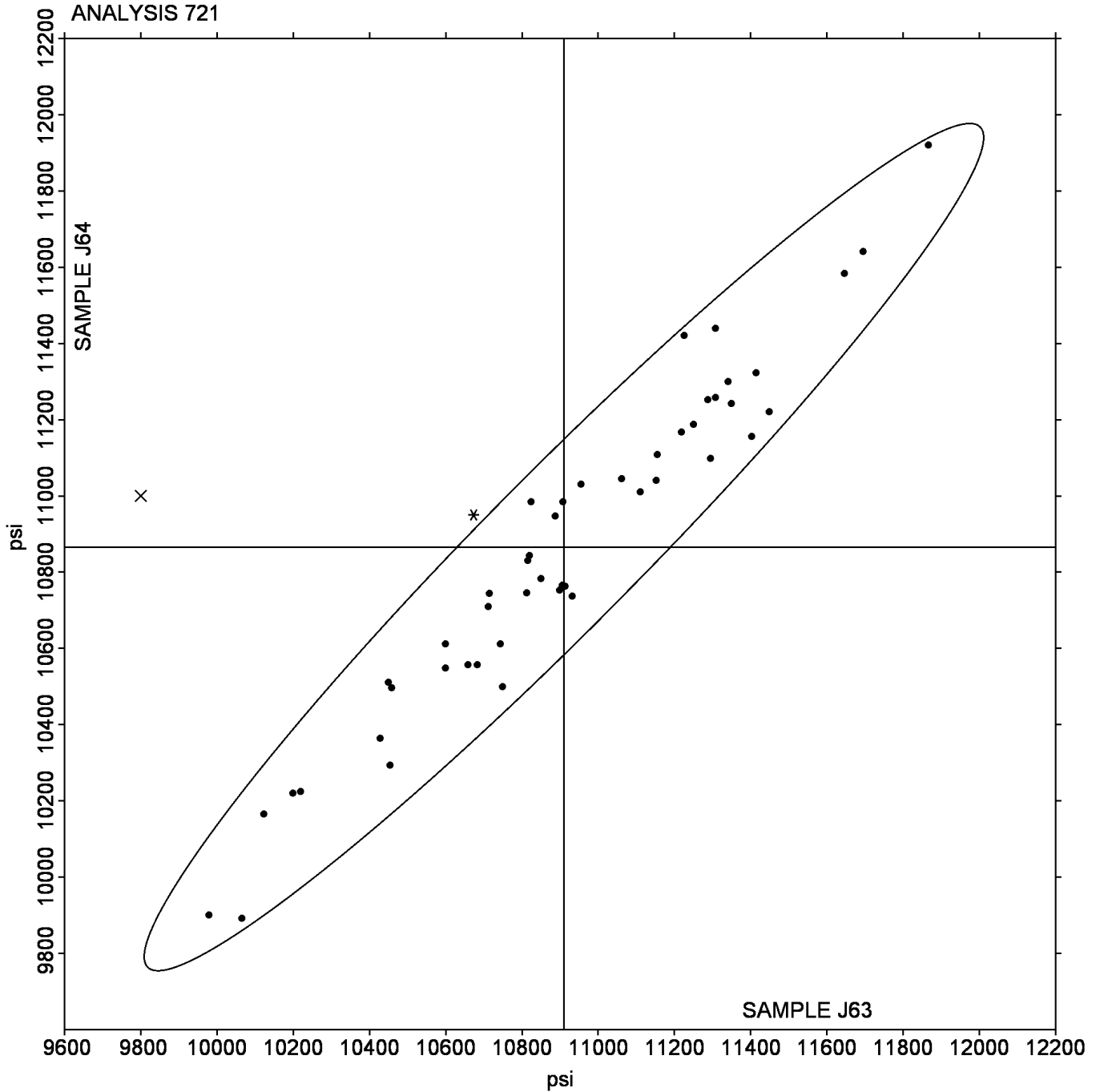
6BD3YG (X) - Inconsistent in testing between samples and inconsistent in testing within Sample J63.

EWN54Y (X) - Extreme data.

K1Y5TK (X) - Data for both samples are low. Data appear to be off by a factor of 10.

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

Grand Mean Sample J63: 10,910.01 psi Grand Mean Sample J64: 10,865.85 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 J63			Sample J64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
17ZJA7		10,526	-382	-1.01	10,345	-504	-1.25
1G2KHQ	*	11,948	1,041	2.74	11,980	1,131	2.81
1V4TMZ		10,952	44	0.12	11,030	181	0.45
1WSGGP		10,727	-180	-0.48	10,588	-262	-0.65
4ECGYV		10,111	-797	-2.10	10,026	-823	-2.04
4ZMRGL		11,220	312	0.82	11,220	371	0.92
51CR1X		10,773	-134	-0.35	10,840	-9	-0.02
5N8MUT		10,831	-76	-0.20	10,675	-175	-0.43
5TQ9XL		10,465	-442	-1.16	10,518	-331	-0.82
5V8GVV		10,689	-219	-0.58	10,604	-246	-0.61
6D3DTG		11,306	398	1.05	11,272	423	1.05
6JJMR7		10,865	-43	-0.11	10,775	-74	-0.18
6TFA69	X	9,495	-1,412	-3.72	9,018	-1,831	-4.55
8RGJXE	X	10,000	-908	-2.39	11,000	151	0.37
945DXS		11,494	587	1.54	11,380	531	1.32
9KGM5N		10,783	-125	-0.33	10,772	-78	-0.19
9L7L5M		10,957	49	0.13	10,809	-40	-0.10
AWH6XU		11,184	276	0.73	10,945	95	0.24
BBDS8F		10,765	-143	-0.38	10,634	-215	-0.53
CVJXMF		11,413	505	1.33	11,287	438	1.09
D4SKF2		11,098	190	0.50	11,112	262	0.65
D7CM5L		10,656	-252	-0.66	10,630	-220	-0.55
DAYQDX		10,757	-151	-0.40	10,653	-197	-0.49
EW25XG		11,141	234	0.62	11,048	198	0.49
FKW5EM		10,863	-44	-0.12	11,021	172	0.43
FNN6TA		10,340	-568	-1.49	10,260	-589	-1.46
GCUWBL		10,930	23	0.06	10,815	-34	-0.09
J64M7M		11,336	428	1.13	11,111	261	0.65
JGWWAG		10,691	-217	-0.57	10,611	-238	-0.59
JQ4ZF9		10,772	-136	-0.36	10,760	-90	-0.22
K1E3PB	*	11,306	399	1.05	10,993	144	0.36
KDDYHK		10,906	-1	0.00	10,904	54	0.14

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

WebCode	Data Flag	Sample			Sample J64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
L66H4A	M	No data reported for this sample			10,110	-740	-1.84
LTR4R3	X	8	-10,900	-28.70	8	-10,842	-26.92
M2N6WD		10,444	-464	-1.22	10,446	-403	-1.00
MLXKF8		10,191	-717	-1.89	10,243	-606	-1.50
MM8M37		10,952	44	0.12	10,794	-55	-0.14
NCKFUM		10,924	16	0.04	10,836	-13	-0.03
PQBDQJ	*	11,257	350	0.92	11,476	627	1.56
Q34XF1		11,352	445	1.17	11,469	620	1.54
Q94NES		11,264	357	0.94	11,209	360	0.89
RA54WU		10,980	73	0.19	10,883	34	0.08
SQNJ2J		10,888	-19	-0.05	10,831	-19	-0.05
SZEBYX		10,768	-140	-0.37	10,653	-197	-0.49
UFFJM3		10,943	36	0.09	10,977	127	0.32
V95BGC		11,090	182	0.48	11,110	261	0.65
WU34WF		10,499	-409	-1.08	10,425	-424	-1.05
XQNTJC		11,344	436	1.15	11,282	432	1.07
YD98JF	*	10,066	-842	-2.22	9,776	-1,074	-2.67
YG1NM4	X	8,812	-2,096	-5.52	10,202	-647	-1.61
ZAFRSE		10,568	-339	-0.89	10,587	-262	-0.65
ZW1GFB		11,318	411	1.08	11,306	456	1.13

Summary Statistics	
Grand Means	
10,907.5 psi	10,849.4 psi
Std Dev Btwn Labs	
379.8 psi	402.7 psi
Statistics based on 47 of 52 reporting participants	

Sample J63: ABS & Sample J64: ABS

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

Comments on assigned Data Flags for Test #722

6TFA69 (X) - Data for both samples are low.

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

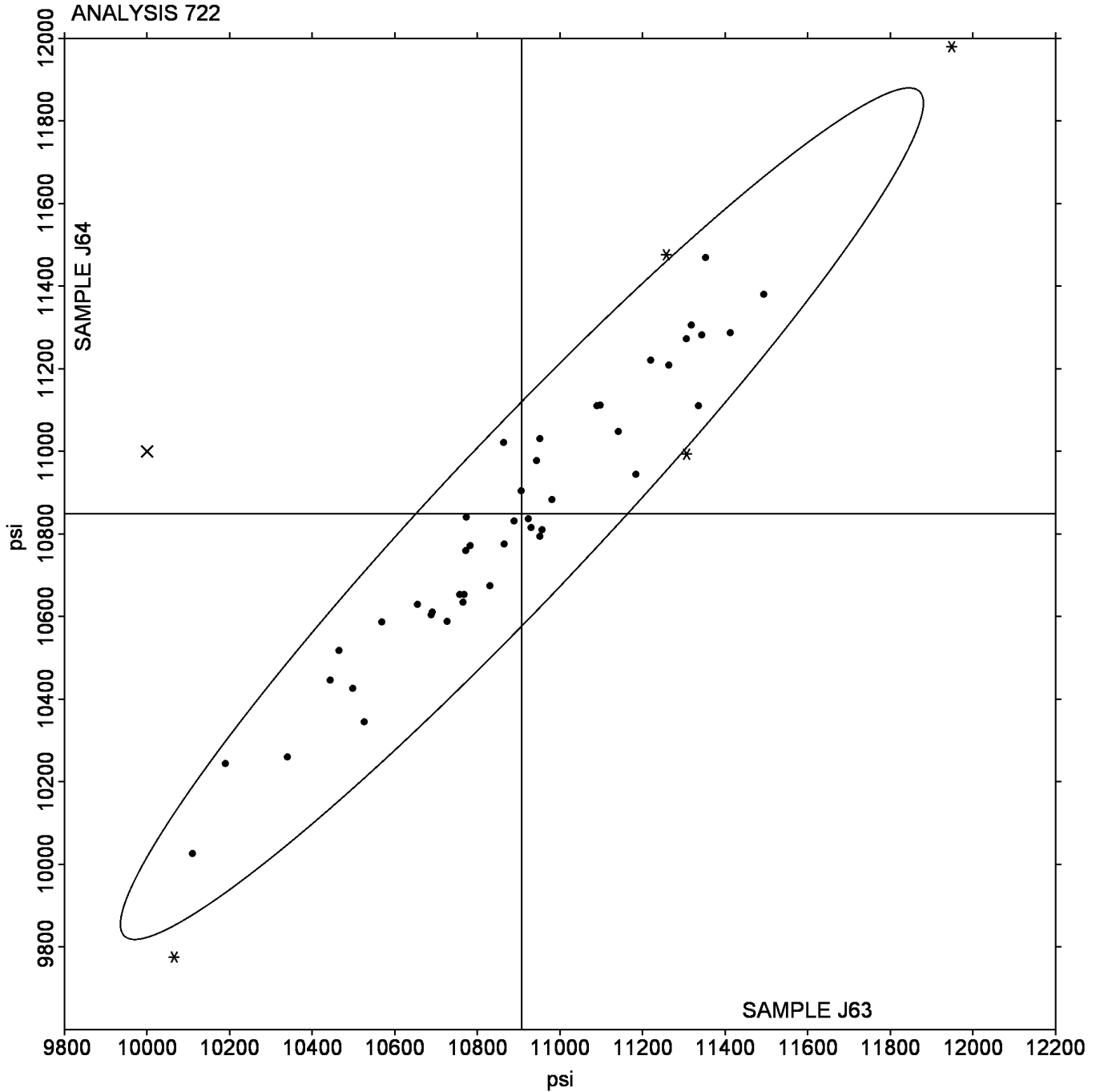
L66H4A (M) - Laboratory did not submit data for Sample J63.

LTR4R3 (X) - Extreme data. Lab indicated reporting in psi, but data appear to be in kgf/sq mm.

YG1NM4 (X) - Inconsistent in testing between samples, data for Sample J63 are low. Also inconsistent in testing within both sample sets.

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

Grand Mean Sample J63: 10,907.52 psi Grand Mean Sample J64: 10,849.36 psi



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

Analysis 736

Flexural Modulus - MPa

WebCode	Data Flag	Sample K63			Sample K64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
179VJW		2,128	-121	-1.29	2,053	-120	-1.36
197C5C		2,249	-1	-0.01	2,127	-46	-0.52
1ZK7EZ		2,348	99	1.05	2,256	83	0.93
4BTYY4		2,111	-139	-1.47	2,034	-139	-1.57
4FB13N		2,308	59	0.63	2,240	67	0.75
4ZTK8D	X	2,239	-11	-0.11	2,032	-141	-1.60
552YYP		2,326	77	0.82	2,217	44	0.49
5KDE1K		2,168	-81	-0.87	2,104	-69	-0.78
6G1ZFC		2,285	36	0.38	2,206	33	0.38
6VM5Y7		2,362	113	1.20	2,313	140	1.59
7FY3GW		2,308	58	0.62	2,241	68	0.77
7HPRU3		2,224	-25	-0.27	2,152	-21	-0.24
839YSH	*	2,392	143	1.52	2,254	81	0.92
8481VT		2,261	11	0.12	2,171	-2	-0.02
88AH8T		2,318	69	0.73	2,247	74	0.83
AAVTSJ		2,173	-76	-0.81	2,139	-34	-0.39
CAJ6SE	X	2,183	-66	-0.71	2,264	91	1.03
DDYFJ6		2,312	63	0.67	2,244	71	0.81
DN9BNH		2,252	3	0.03	2,180	7	0.07
ESCZPS		2,259	10	0.10	2,205	32	0.36
FJGSN4		2,330	81	0.86	2,230	57	0.64
HAZ89X		2,112	-137	-1.46	2,034	-139	-1.57
HFLK9E		2,341	92	0.98	2,243	70	0.79
HJ96Q8		2,345	96	1.02	2,283	110	1.24
JTU4FJ		2,048	-201	-2.14	1,985	-188	-2.13
KHZK36		2,379	130	1.38	2,301	128	1.44
KWPEJ6		2,321	72	0.77	2,233	60	0.68
LDMYUZ		2,303	53	0.57	2,258	85	0.96
MDMVY8		2,236	-14	-0.15	2,150	-23	-0.26
MUNVG8		2,214	-36	-0.38	2,140	-33	-0.38
N4E1DL		2,250	1	0.01	2,193	20	0.23
NU1S5Z	*	2,190	-59	-0.63	2,182	9	0.10

Plastics Interlaboratory Testing Program
Analysis 736
Flexural Modulus - MPa

WebCode	Data Flag	Sample K63			Sample K64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
P1BFAL		2,190	-59	-0.63	2,114	-59	-0.67
PYJ399		2,177	-72	-0.77	2,116	-57	-0.64
R75VSJ	X	1,891	-358	-3.81	2,221	48	0.55
RJ98G5		2,230	-19	-0.21	2,156	-17	-0.19
S5Q329		2,193	-57	-0.60	2,122	-51	-0.58
T76QWF		2,145	-104	-1.11	2,073	-100	-1.13
TVQURP		2,327	78	0.83	2,269	96	1.09
TZT7PN		2,100	-150	-1.59	2,053	-120	-1.36
UZ994F		2,131	-119	-1.26	2,064	-109	-1.24
V911EE	*	2,500	251	2.67	2,407	234	2.64
VVWPV9		2,276	27	0.29	2,168	-5	-0.05
VXA2U4		2,164	-86	-0.91	2,081	-92	-1.05
XQDA2Z		2,327	77	0.82	2,224	51	0.58
XYVNJW		2,258	8	0.09	2,161	-12	-0.14
ZEPN9P		2,329	79	0.84	2,232	59	0.66
ZPIRGY		2,266	17	0.18	2,182	9	0.10
ZTGZ5Y		2,100	-149	-1.58	2,029	-144	-1.62
ZYR6TH		2,154	-95	-1.01	2,068	-105	-1.19

Summary Statistics

Grand Means

2,249.4 MPa

2,173.0 MPa

Std Dev Btwn Labs

94.0 MPa

88.4 MPa

Statistics based on 47 of 50 reporting participants

Sample K63: HIPS & Sample K64: HIPS

Comments on assigned Data Flags for Test #736

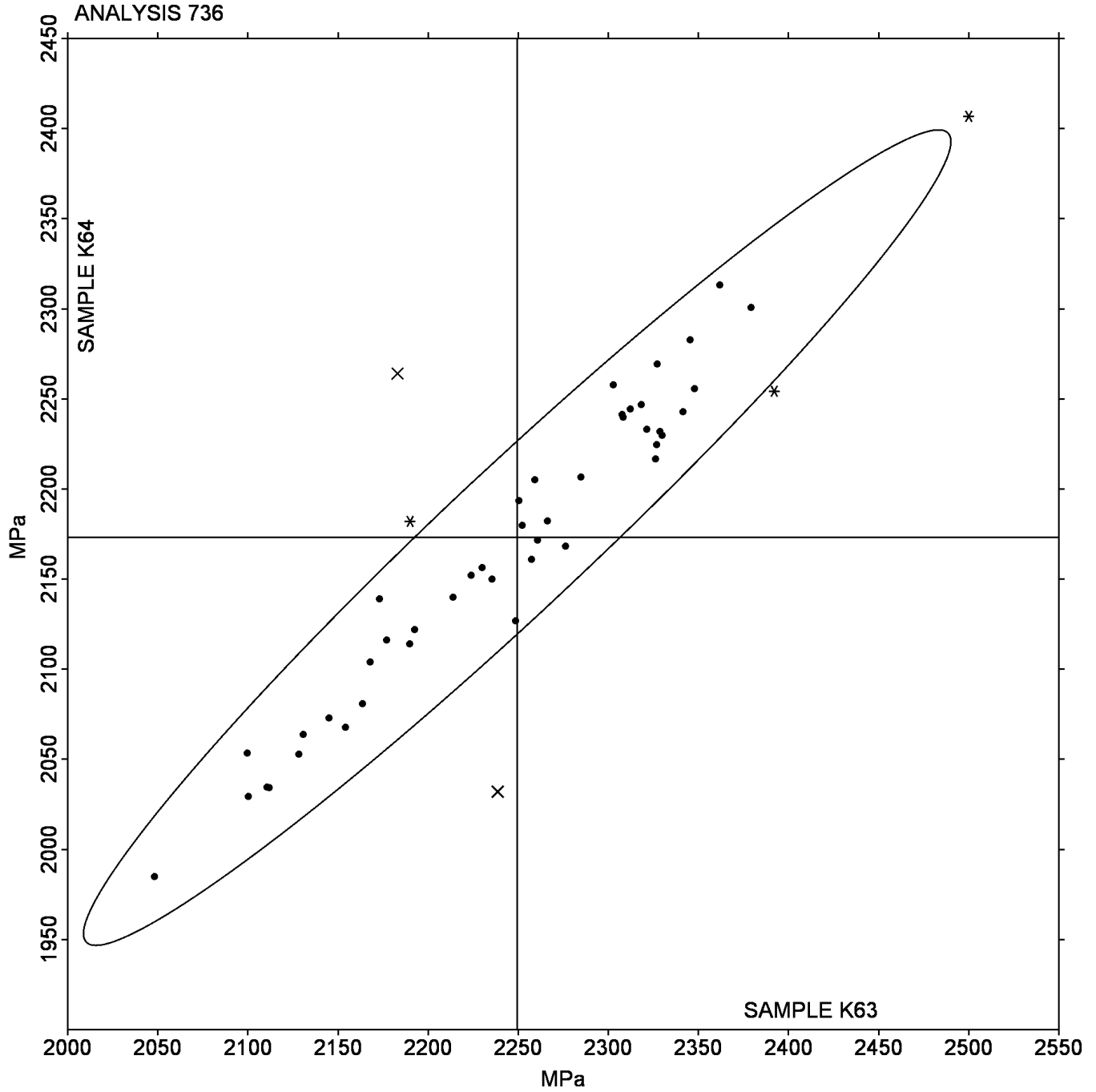
4ZTK8D (X) - Inconsistent in testing between samples.

CAJ6SE (X) - Inconsistent in testing between samples.

R75VSJ (X) - Inconsistent in testing between samples, data for Sample K63 are low. Also inconsistent in testing within both sample sets.

Plastics Interlaboratory Testing Program
Analysis 736
Flexural Modulus - MPa

Grand Mean Sample K63: 2,249.41 MPa Grand Mean Sample K64: 2,173.04 MPa



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

**Plastics Interlaboratory Testing Program
Analysis 737**

Flexural Stress at 3.5% Strain - MPa

WebCode	Data Flag	Sample K63			Sample K64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1F15ZT		45.16	-0.42	-0.46	44.40	-0.19	-0.17
68STX9		44.32	-1.27	-1.37	43.32	-1.28	-1.12
6ZJUDU		45.76	0.18	0.20	44.64	0.04	0.04
75LDMH	X	1,318.74	1,273.16	1,373.81	1,294.15	1,249.55	1,095.60
9G9Z5J		46.29	0.71	0.76	45.36	0.76	0.67
AVWW87		46.81	1.23	1.32	46.21	1.62	1.42
C7KVWE	X	44.19	-1.39	-1.50	45.54	0.95	0.83
CLHXJE		46.27	0.69	0.74	44.70	0.11	0.09
CVQAYX		44.86	-0.72	-0.78	44.07	-0.52	-0.46
E1LRRV		46.47	0.89	0.96	45.64	1.04	0.92
EA3Y9B		47.09	1.51	1.63	46.84	2.25	1.97
EBQ3FG		46.10	0.52	0.56	45.59	1.00	0.88
ETX121		46.43	0.85	0.92	45.79	1.20	1.05
FK81E9		45.31	-0.27	-0.29	44.50	-0.09	-0.08
GN7TYG		46.40	0.82	0.88	45.35	0.75	0.66
GU2CS1	X	44.86	-0.72	-0.78	41.74	-2.85	-2.50
K3D8YX		44.91	-0.67	-0.72	43.69	-0.90	-0.79
KJZ1EP		45.05	-0.53	-0.57	43.57	-1.02	-0.89
MAMJ28		44.21	-1.37	-1.48	43.44	-1.16	-1.01
N3T3GF		44.00	-1.58	-1.71	42.31	-2.28	-2.00
N85H81		45.56	-0.03	-0.03	44.87	0.27	0.24
QQT83J		46.92	1.34	1.45	46.16	1.57	1.37
SS2EVB		46.06	0.48	0.51	45.56	0.97	0.85
SYV527		43.87	-1.72	-1.85	43.00	-1.59	-1.40
T3A317		45.57	-0.01	-0.01	44.54	-0.06	-0.05
T4XAY4		45.22	-0.36	-0.39	44.08	-0.51	-0.45
TW5BQP		46.94	1.36	1.46	45.46	0.86	0.76
UAUBT3		46.09	0.51	0.55	45.18	0.59	0.52
UJUPYX		46.50	0.92	0.99	45.94	1.35	1.18
XCR385		44.46	-1.12	-1.21	42.82	-1.78	-1.56
XWQVU5		45.39	-0.19	-0.20	44.44	-0.16	-0.14
XXKLXX		44.38	-1.20	-1.30	42.93	-1.66	-1.45

**Plastics Interlaboratory Testing Program
Analysis 737**

Flexural Stress at 3.5% Strain - MPa

WebCode	Data Flag	Sample K63			Sample K64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
YVFMH4		45.57	-0.01	-0.01	44.49	-0.10	-0.09
Z1Q6AV		45.08	-0.50	-0.54	43.50	-1.10	-0.96

Summary Statistics

Grand Means

45.583 MPa

44.593 MPa

Std Dev Btwn Labs

0.927 MPa

1.141 MPa

Statistics based on 31 of 34 reporting participants

Sample K63: HIPS & **Sample K64:** HIPS

Comments on assigned Data Flags for Test #737

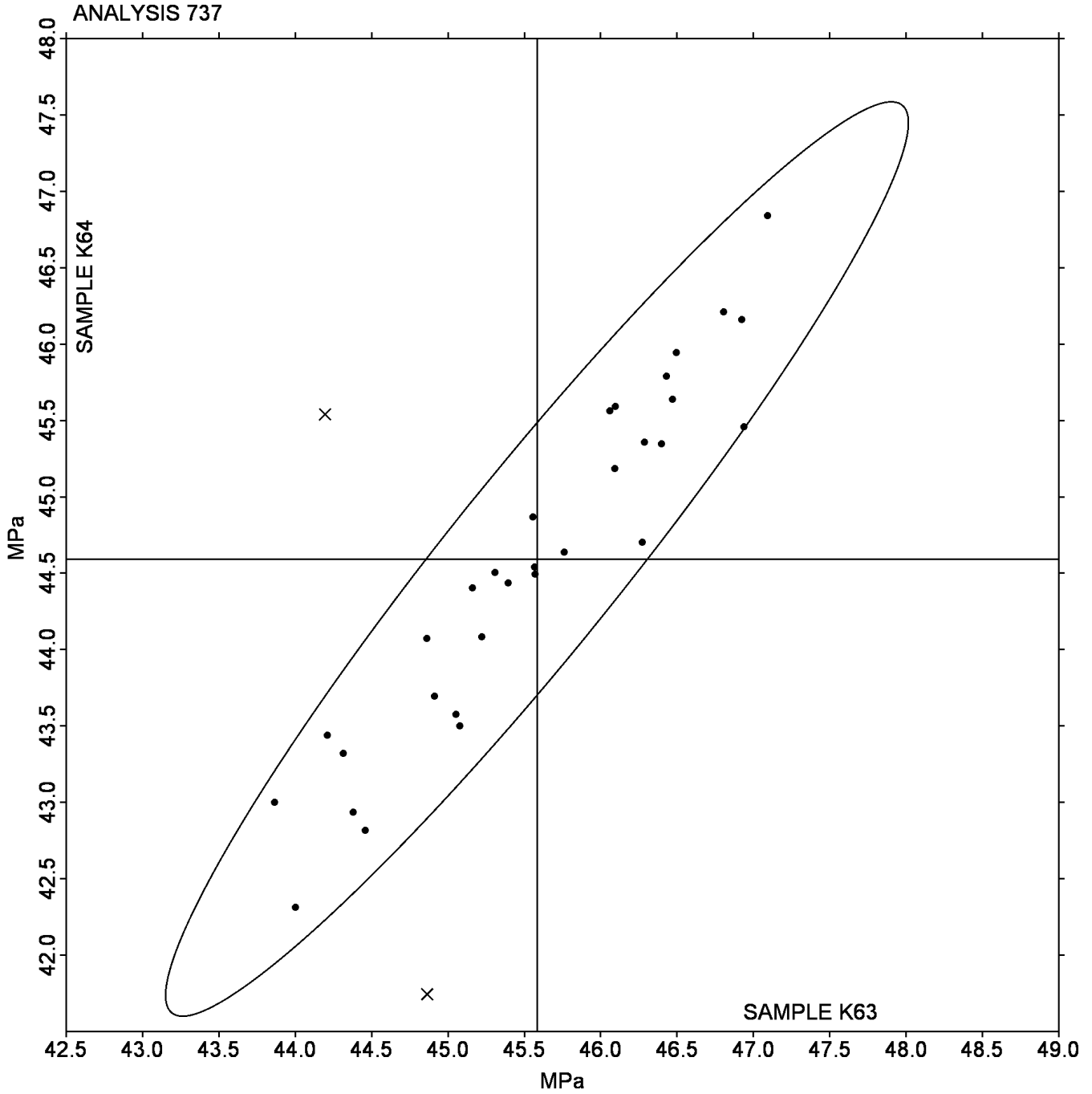
75LDMH (X) - Extreme data.

C7KVWE (X) - Inconsistent in testing between samples.

GU2CS1 (X) - Inconsistent in testing between samples.

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

Grand Mean Sample K63: 45.583 MPa Grand Mean Sample K64: 44.593 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 K63			Sample K64		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
4NV3JR		44.42	-1.11	-1.29	42.98	-1.58	-1.37
5Q5RWG		45.12	-0.41	-0.48	44.90	0.34	0.29
5WCEMP		45.21	-0.32	-0.37	43.57	-0.99	-0.86
758B2A		46.86	1.33	1.55	46.32	1.76	1.52
7NF3YZ		45.83	0.30	0.35	45.70	1.14	0.98
8627HR		46.48	0.95	1.10	45.46	0.90	0.78
8SRKPE		46.07	0.54	0.62	45.32	0.76	0.66
9QKC88		44.93	-0.60	-0.70	43.71	-0.85	-0.73
BFLZXS		46.06	0.53	0.62	45.59	1.03	0.89
BV9YFS		44.11	-1.42	-1.66	42.33	-2.23	-1.93
BWCDRC		44.48	-1.05	-1.22	42.90	-1.66	-1.44
E2ZGFK		44.04	-1.49	-1.74	42.98	-1.58	-1.37
EX5AR4		46.10	0.57	0.66	45.48	0.92	0.80
F47Z8D		46.12	0.59	0.69	45.65	1.09	0.94
G73C1W		44.30	-1.23	-1.43	43.14	-1.42	-1.23
K74W3H		45.32	-0.21	-0.25	43.84	-0.72	-0.62
KBTE57		46.51	0.98	1.14	44.92	0.36	0.31
LAPYTN		45.16	-0.37	-0.43	43.66	-0.90	-0.78
LUZDGE	X	44.96	-0.57	-0.67	41.84	-2.72	-2.35
N2KKKC		45.59	0.06	0.07	44.92	0.36	0.31
P7FSFD		45.76	0.23	0.26	44.48	-0.08	-0.07
PTD55B		45.83	0.30	0.35	44.67	0.11	0.10
QCBRT2		47.48	1.95	2.28	47.17	2.61	2.26
R1VSDC		45.64	0.11	0.13	44.57	0.01	0.01
T2Z1E8		45.61	0.08	0.10	44.60	0.04	0.03
URCK4C		44.93	-0.60	-0.70	44.15	-0.41	-0.36
WSD5VH		44.41	-1.12	-1.30	43.42	-1.14	-0.99
Y5V91Y		45.23	-0.30	-0.35	44.12	-0.44	-0.38
YMFXTAT		46.44	0.91	1.06	45.89	1.33	1.15
Z3FVRP		45.36	-0.17	-0.19	44.59	0.03	0.03
ZJUK3A		46.49	0.96	1.12	45.78	1.22	1.05

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

Summary Statistics	
Grand Means	
45.530 MPa	44.560 MPa
Std Dev Btwn Labs	
0.857 MPa	1.156 MPa
Statistics based on 30 of 31 reporting participants	

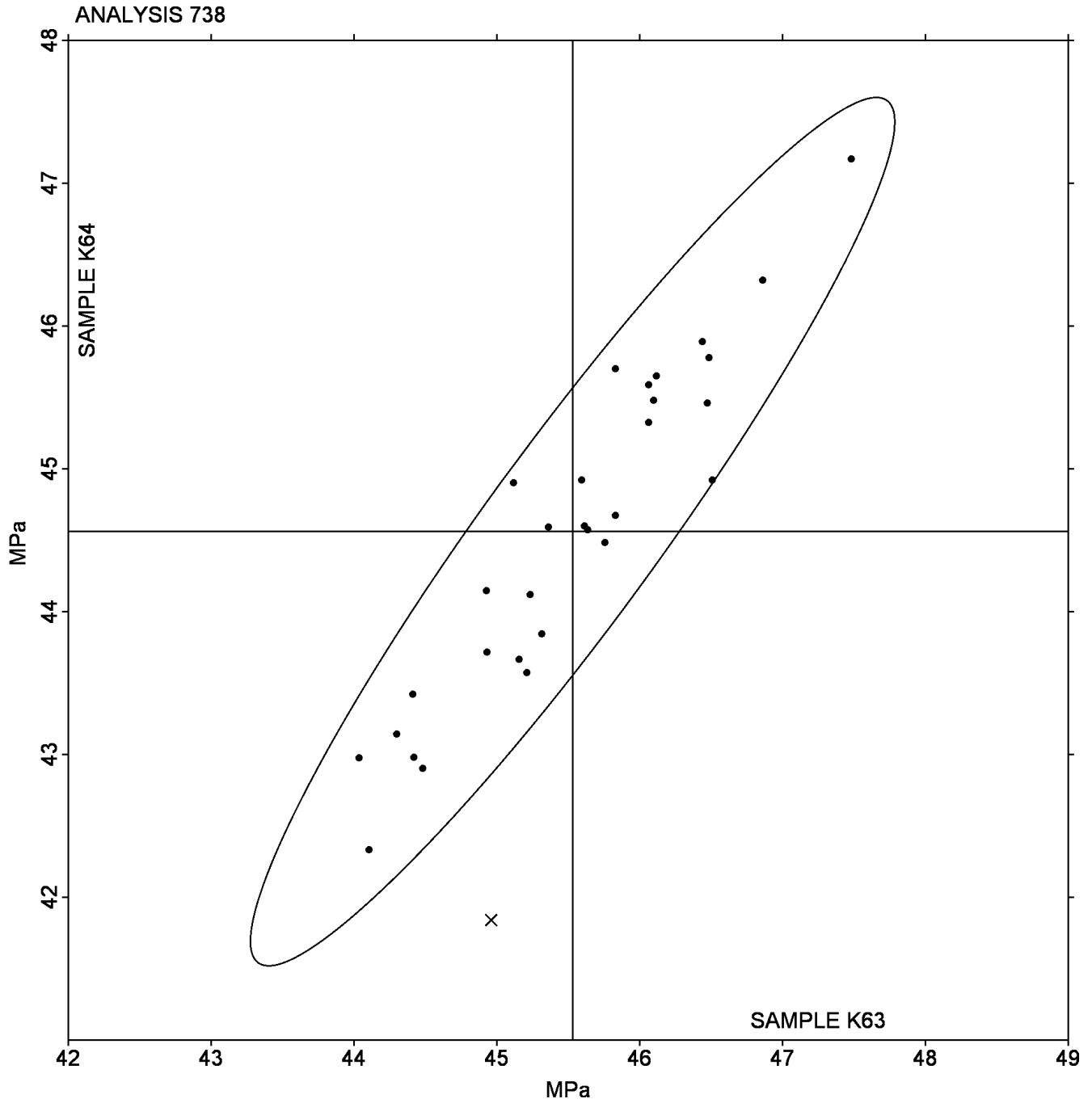
Sample K63: HIPS & **Sample K64:** HIPS

Comments on assigned Data Flags for Test #738

LUZDGE (X) - Inconsistent in testing between samples.

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

Grand Mean Sample K63: 45.530 MPa Grand Mean Sample K64: 44.560 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 S63			Sample S64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1JQ1QC	X	1.28	-2.84	-12.23	2.24	-5.01	-10.67	TM
2278V7		4.05	-0.06	-0.27	6.65	-0.61	-1.29	CE
27R6TP		4.45	0.33	1.43	7.74	0.48	1.03	TM
3F22X1		4.20	0.08	0.35	7.44	0.18	0.38	TO
3KN8QG		4.35	0.23	0.99	8.28	1.02	2.18	BA
4594ZF	X	0.48	-3.64	-15.69	0.84	-6.41	-13.65	TO
49TLLC		4.09	-0.03	-0.12	7.28	0.03	0.05	WZ
4UG3RR		4.01	-0.11	-0.47	6.90	-0.36	-0.76	TM
4UPZQV		3.91	-0.20	-0.88	7.31	0.06	0.12	TO
4V7S5X	X	3.49	-0.62	-2.69	5.27	-1.99	-4.23	CE
516BD2		3.93	-0.19	-0.81	7.27	0.02	0.03	TO
51HJZB		4.19	0.07	0.32	7.46	0.21	0.44	TM
5HT8KG		4.08	-0.04	-0.15	7.44	0.19	0.40	TO
5LFAUG		4.35	0.23	1.00	7.20	-0.05	-0.11	BA
5P4MV8	*	4.50	0.39	1.67	6.89	-0.37	-0.78	TM
5QJYJ5		4.06	-0.06	-0.25	7.33	0.07	0.15	TO
5X1TYS		3.73	-0.38	-1.65	6.95	-0.30	-0.64	TO
63KZQE		4.11	0.00	-0.01	7.59	0.33	0.70	TO
6HCL4T		4.03	-0.09	-0.38	7.16	-0.10	-0.20	TM
8CZFND		4.42	0.30	1.31	8.04	0.78	1.67	XX
8H114E		3.87	-0.25	-1.07	6.89	-0.37	-0.79	XX
8NZYAZ		4.47	0.35	1.52	7.03	-0.22	-0.47	CS
8SN2KP		4.02	-0.10	-0.42	7.02	-0.24	-0.50	TO
9C9C83		3.60	-0.51	-2.21	6.79	-0.46	-0.99	TO
9GV2VC		3.91	-0.21	-0.88	6.55	-0.71	-1.51	TM
9VVSQ2Z		4.20	0.08	0.36	6.88	-0.38	-0.80	TM
A9B7MM		4.19	0.07	0.32	7.44	0.18	0.39	TO
AE18MU	*	3.96	-0.16	-0.68	8.28	1.02	2.18	TM
AGC93F		4.46	0.34	1.46	7.98	0.72	1.54	TM
AN3PYS		4.02	-0.10	-0.44	7.45	0.20	0.42	TM
C14ZL5		4.27	0.15	0.66	7.47	0.21	0.46	TM
C3KPC3	X	3.58	-0.54	-2.32	5.49	-1.76	-3.75	TO

Plastics Interlaboratory Testing Program
Analysis 790

Notched Izod Impact - ft.lbf/in

WebCode	Data Flag	Sample S63			Sample S64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
CBSSFA	X	5.39	1.27	5.48	7.72	0.46	0.98	TO
DF637Q		4.30	0.18	0.79	7.66	0.40	0.85	TO
DG4JCZ		4.47	0.35	1.52	8.27	1.01	2.15	CE
EANCYP		3.86	-0.25	-1.09	7.00	-0.25	-0.54	TO
EM4PHJ		4.18	0.07	0.29	7.51	0.26	0.55	CE
EV8V56		3.91	-0.20	-0.87	6.82	-0.44	-0.93	CE
F5W1G4		4.15	0.04	0.15	7.01	-0.25	-0.53	TO
F9L9HJ	X	5.57	1.45	6.26	4.50	-2.75	-5.86	TM
G1XLQC		4.09	-0.02	-0.10	7.58	0.32	0.69	CE
H3C1AK		4.38	0.27	1.15	6.80	-0.46	-0.98	TO
HAKXLR		3.92	-0.20	-0.84	6.28	-0.98	-2.08	TO
J9V8C4	X	6.29	2.18	9.39	9.00	1.74	3.71	TM
KHT3DY		3.94	-0.18	-0.77	7.29	0.03	0.07	TO
KRR7QW		3.75	-0.37	-1.57	6.38	-0.87	-1.86	CE
L5DVWU		4.17	0.05	0.24	7.67	0.41	0.88	TO
LESCRK	X	4.94	0.82	3.54	9.33	2.07	4.42	TO
LNY2LH		4.14	0.02	0.10	7.10	-0.16	-0.34	TO
LW83PC		4.14	0.02	0.08	6.83	-0.42	-0.90	TM
MF613X		4.40	0.28	1.20	7.29	0.04	0.08	TM
MSYE9L		3.85	-0.27	-1.15	6.73	-0.53	-1.12	TM
N4EFS1		4.14	0.02	0.08	7.71	0.46	0.97	TM
NH18ES		4.03	-0.09	-0.39	7.29	0.04	0.08	TO
NKLLYQ		4.21	0.09	0.40	7.65	0.40	0.85	TO
NT32ZZ		3.85	-0.26	-1.13	6.51	-0.74	-1.58	WY
P4X7DB		4.00	-0.12	-0.52	6.79	-0.47	-1.00	TO
P6JFDJ		4.22	0.10	0.45	7.44	0.19	0.40	TM
PU9BDV		3.84	-0.27	-1.18	6.88	-0.38	-0.81	XX
PXR7M1		4.60	0.48	2.08	7.91	0.65	1.39	TM
QAYMVW		4.09	-0.02	-0.10	7.26	0.01	0.01	TO
QCZCJS		4.17	0.06	0.24	7.79	0.54	1.14	TO
QZRBQ2	X	4.86	0.75	3.22	7.53	0.28	0.59	TM
R91SFY		4.54	0.42	1.82	7.77	0.52	1.10	TM

**Plastics Interlaboratory Testing Program
Analysis 790**

Notched Izod Impact - ft.lbf/in

WebCode	Data Flag	Sample S63			Sample S64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
RUVFLE		3.72	-0.40	-1.70	6.87	-0.38	-0.82	TM
S42APJ		4.51	0.39	1.69	7.05	-0.21	-0.45	TM
T5CMQL		4.17	0.06	0.25	6.98	-0.27	-0.58	BA
T5ET97		3.97	-0.15	-0.63	7.07	-0.19	-0.40	CE
U4E6X2		4.08	-0.04	-0.18	7.18	-0.08	-0.17	CE
U5W2Y2		3.88	-0.23	-1.00	7.17	-0.09	-0.19	TM
UGA6EY		3.69	-0.42	-1.82	6.53	-0.72	-1.53	CE
VCQJY6		3.92	-0.20	-0.86	7.27	0.01	0.02	TO
VGZBZB	*	4.65	0.53	2.28	7.12	-0.13	-0.28	TO
VQMADA		4.36	0.24	1.05	7.19	-0.06	-0.13	CS
WA98JT		4.01	-0.11	-0.47	6.58	-0.68	-1.44	TM
WBY796		4.03	-0.08	-0.36	7.69	0.43	0.92	TY
WSZR9T	X	1.65	-2.47	-10.63	3.01	-4.24	-9.03	TM
WX2MU8		4.42	0.30	1.30	7.90	0.64	1.37	TO
WYN9UW		4.01	-0.11	-0.45	7.33	0.08	0.17	TO
XA7X3F	X	5.30	1.19	5.12	6.82	-0.44	-0.94	WZ
XLPCAP		4.02	-0.10	-0.44	6.69	-0.56	-1.20	TM
XS33XX		4.27	0.16	0.68	7.45	0.19	0.41	XX
XX3886		4.21	0.09	0.40	7.00	-0.25	-0.54	CE
YAXY9K	*	4.04	-0.08	-0.34	8.34	1.08	2.31	XX
YD2BQ4		3.64	-0.48	-2.06	6.56	-0.69	-1.48	CE
YZ77WK		4.16	0.04	0.18	7.73	0.48	1.01	TM
Z3XEPM	X	1.05	-3.07	-13.24	1.70	-5.55	-11.82	CE
ZJ17UV		4.10	-0.02	-0.07	7.60	0.34	0.73	CE
ZLNTLX		4.41	0.29	1.27	7.81	0.56	1.18	CE
ZRBH22		4.06	-0.06	-0.25	6.88	-0.38	-0.80	TO

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

		Summary Statistics	
Grand Means	4.117 ft.lbf/in	7.256 ft.lbf/in	
Stnd Dev Btwn Labs	0.232 ft.lbf/in	0.470 ft.lbf/in	
Statistics based on 78 of 90 reporting participants			

Sample S63: ABS & **Sample S64:** ABS

Comments on assigned Data Flags for Test #790

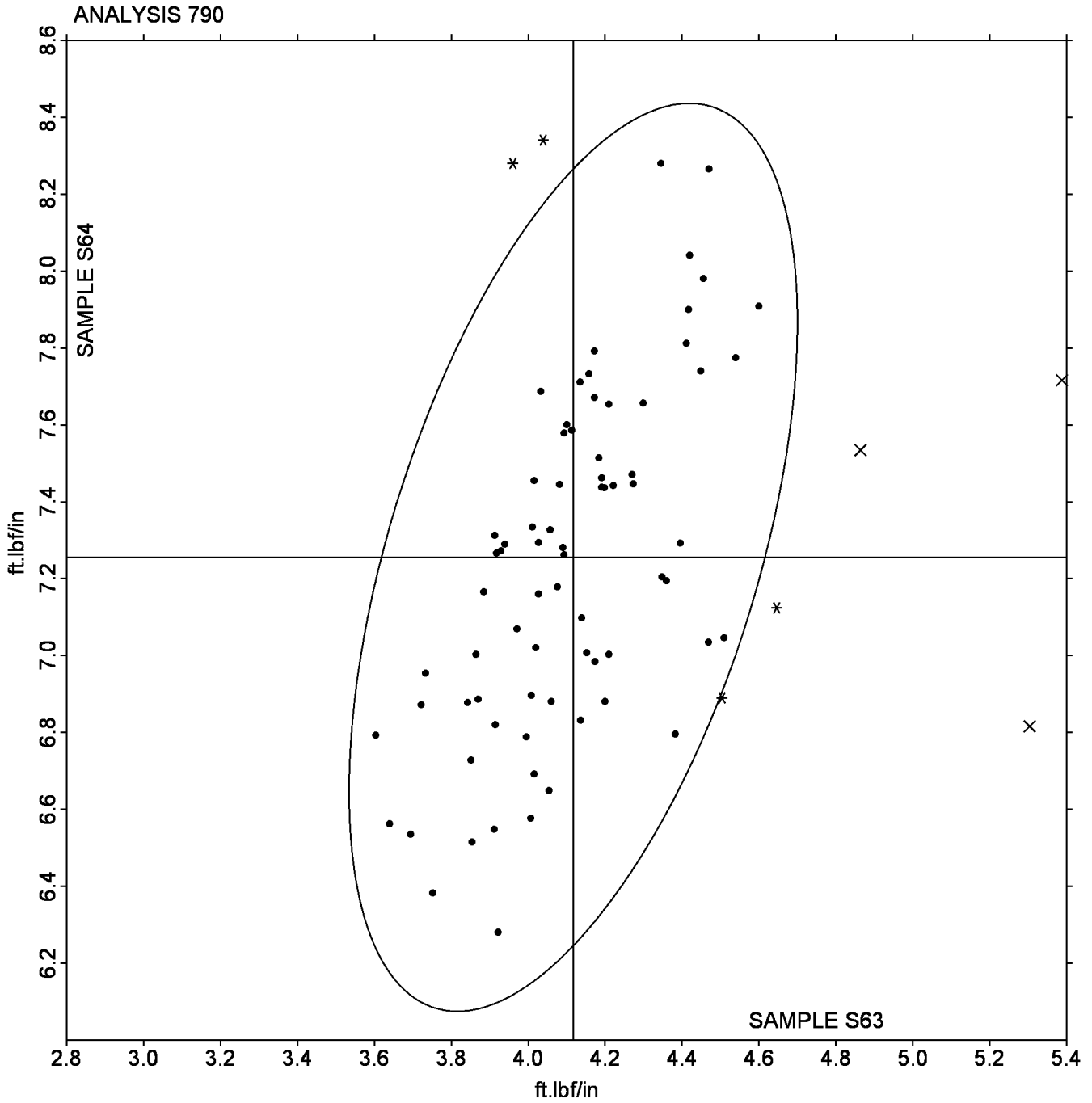
- 1JQ1QC (X) - Data for both samples are low.
- 4594ZF (X) - Extreme data. Data appear to be off by a factor of 10.
- 4V7S5X (X) - Data for Sample S64 are low.
- C3KPC3 (X) - Data for Sample S64 are high.
- CBSSFA (X) - Data for Sample S63 are high. Also inconsistent in testing within Sample S63.
- F9L9HJ (X) - Data for Sample S63 are high, and Data for Sample S64 are low. Also inconsistent in testing within both sample sets.
- J9V8C4 (X) - Data for both samples are high.
- LESCRK (X) - Data for both samples are high.
- QZRBQ2 (X) - Data for Sample S63 are high.
- WSZR9T (X) - Data for both samples are low.
- XA7X3F (X) - Data for Sample S63 are high.
- Z3XEPM (X) - Data for both samples are low.

Instrument Code List as Reported by the Labs

- | | |
|---|------------------|
| (BA) - Baldwin | (CE) - Ceast |
| (CS) - CSI | (TM) - TMI |
| (TO) - Tinius Olsen | (TY) - Toyoseiki |
| (WY) - Yasuda Seiki | (WZ) - Zwick |
| (XX) - Instrument manufacturer not specified by lab | |

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

Grand Mean Sample S63: 4.1171 ft.lbf/in Grand Mean Sample S64: 7.2556 ft.lbf/in



Plastics Interlaboratory Testing Program
Analysis 792

Notched Charpy Impact - kJ/m²

WebCode	Data Flag	Sample M63			Sample M64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1CMKB6	X	39.78	22.01	9.33	48.38	20.18	1.82	TO
2FMKWF		16.36	-1.41	-0.60	33.54	5.35	0.48	XX
2MP8GN		21.40	3.63	1.54	43.39	15.19	1.37	TM
36GVYB		19.23	1.46	0.62	18.40	-9.80	-0.88	TO
4QUPNP	X	26.17	8.40	3.56	31.61	3.41	0.31	CE
6M8CA5		16.75	-1.02	-0.43	17.91	-10.29	-0.93	CE
6QTE1A	*	24.87	7.10	3.01	43.81	15.62	1.41	KF
77NU2F		19.59	1.82	0.77	38.99	10.79	0.97	TM
7AX683		17.72	-0.05	-0.02	18.49	-9.71	-0.88	TO
7DTVB4		20.31	2.54	1.08	47.95	19.76	1.78	XX
7QP4YC		17.82	0.05	0.02	26.58	-1.62	-0.15	CE
88YX7S		17.15	-0.62	-0.26	28.13	-0.06	-0.01	TY
89FJ18		17.97	0.20	0.09	18.37	-9.82	-0.89	TM
8G1VH1		19.82	2.05	0.87	44.10	15.90	1.43	CE
9NB9BB	X	49.15	31.38	13.30	57.68	29.48	2.66	CE
ASLVQ1		13.36	-4.41	-1.87	18.41	-9.79	-0.88	TM
F83VJ1		14.84	-2.93	-1.24	15.94	-12.26	-1.11	CE
FS5EB8		14.38	-3.39	-1.44	21.38	-6.82	-0.61	TM
GP6SGQ		15.85	-1.92	-0.81	17.55	-10.64	-0.96	TM
GPA3KP		16.60	-1.17	-0.50	36.89	8.70	0.78	CE
HZUEEL		16.69	-1.08	-0.46	16.95	-11.24	-1.01	CE
J98AVP		15.88	-1.89	-0.80	19.04	-9.16	-0.83	GR
JQ6385		18.23	0.46	0.19	40.92	12.73	1.15	TM
K32122		17.67	-0.10	-0.04	39.20	11.00	0.99	TO
LXCV55		19.04	1.27	0.54	21.42	-6.78	-0.61	CE
NGM9DB		16.83	-0.94	-0.40	16.88	-11.31	-1.02	TM
PQQWFH		17.24	-0.53	-0.22	30.57	2.37	0.21	TO
RMCF4B		15.19	-2.58	-1.09	17.38	-10.82	-0.98	WZ
S1UBUC		21.15	3.38	1.43	35.60	7.41	0.67	SA
SW8L19		17.17	-0.60	-0.26	17.87	-10.32	-0.93	XX
U4W1YB		17.05	-0.72	-0.31	17.49	-10.71	-0.97	TO
VATEWH		19.36	1.59	0.67	41.43	13.24	1.19	TM

**Plastics Interlaboratory Testing Program
Analysis 792**

Notched Charpy Impact - kJ/m²

WebCode	Data Flag	Sample M63			Sample M64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
VWL1C1		16.26	-1.51	-0.64	18.59	-9.60	-0.87	TM
WPR5H2		17.79	0.02	0.01	23.70	-4.50	-0.41	XX
XTSYHX		16.06	-1.71	-0.72	35.23	7.04	0.63	TO
Y1DY29	X	34.69	16.92	7.17	52.57	24.38	2.20	PO
Y9CXUP		22.32	4.55	1.93	44.34	16.15	1.46	TM
YZBDPF		18.65	0.88	0.37	43.72	15.52	1.40	CE
Z8RK94		15.36	-2.41	-1.02	16.70	-11.50	-1.04	TO

Summary Statistics

Grand Means

17.770 kJ/m²

28.197 kJ/m²

Std Dev Btwn Labs

2.360 kJ/m²

11.083 kJ/m²

Statistics based on 35 of 39 reporting participants

Sample M63: ABS/PC & **Sample M64:** ABS/PC

Comments on assigned Data Flags for Test #792

1CMKB6 (X) - Data for Sample M63 are high. Also inconsistent in testing within sample M63.

4QUPNP (X) - Data for Sample M63 are high.

9NB9BB (X) - Data for Sample M63 are high.

Y1DY29 (X) - Inconsistent in testing between samples, data for Sample M63 are high. Also inconsistent in testing within sample M63.

Instrument Code List as Reported by the Labs

(CE) - Ceast

(GR) - GRC

(KF) - Karl Frank GmbH

(PO) - POE

(SA) - Satec

(TM) - TMI

(TO) - Tinius Olsen

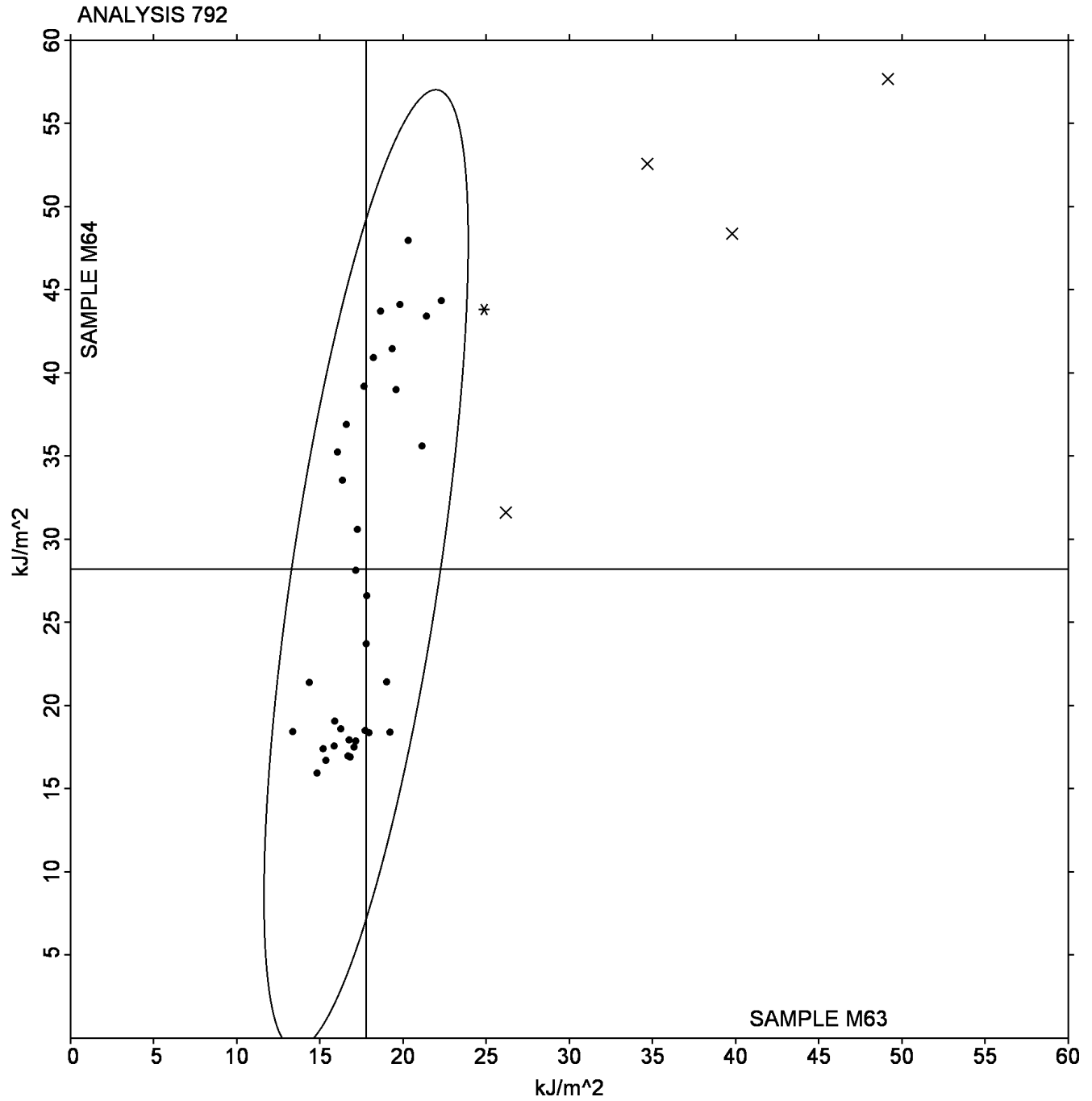
(TY) - Toyoseiki

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program
Analysis 792
Notched Charpy Impact - kJ/m^2

Grand Mean Sample M63: 17.770 kJ/m^2 Grand Mean Sample M64: 28.197 kJ/m^2



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

**Plastics Interlaboratory Testing Program
Analysis 710**

Deflection Temp. Under Flexural Load (1.82 MPa) - Degrees C

WebCode	Data Flag	Sample E63			Sample E64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
394HLX		81.08	1.13	0.77	82.45	1.04	0.76	DN
4Y6PDJ		82.28	2.33	1.59	82.90	1.49	1.09	XX
697QC9		80.05	0.10	0.07	81.83	0.42	0.30	TO
6D15YG		78.00	-1.95	-1.33	79.85	-1.56	-1.14	TO
6DU5EF		77.30	-2.65	-1.81	78.85	-2.56	-1.87	XX
8822ZN		77.83	-2.12	-1.45	80.00	-1.41	-1.03	CE
A53SCY		80.38	0.43	0.29	81.25	-0.16	-0.12	TO
AFHJYM		81.93	1.98	1.35	82.70	1.29	0.94	EM
B3QE82		80.30	0.35	0.24	82.13	0.72	0.52	XA
BQBW46		81.38	1.43	0.97	83.60	2.19	1.60	AT
DUXNBL		78.60	-1.35	-0.92	80.45	-0.96	-0.70	TO
E78B3N		81.90	1.95	1.33	82.73	1.32	0.96	CE
EYGJNN		82.30	2.35	1.61	83.98	2.57	1.87	AT
F8J17R		81.05	1.10	0.75	82.70	1.29	0.94	CE
FEH5RP		78.10	-1.85	-1.26	80.23	-1.19	-0.87	EM
FFT4LX		79.30	-0.65	-0.44	80.78	-0.64	-0.46	AT
FL9PAC		80.68	0.73	0.50	82.28	0.87	0.63	DN
FQL4UW		79.90	-0.05	-0.03	81.38	-0.04	-0.03	EM
FVT7MW		80.88	0.93	0.63	82.00	0.59	0.43	CE
GW1BML		77.38	-2.57	-1.76	79.15	-2.26	-1.65	TO
J3562K		82.98	3.03	2.07	84.18	2.77	2.02	XX
JFQ944		79.50	-0.45	-0.31	81.10	-0.31	-0.23	TO
JHZRH8	X	81.10	1.15	0.79	80.45	-0.96	-0.70	AT
L13DPW		79.23	-0.72	-0.49	80.95	-0.46	-0.34	CE
L7WR3D		81.00	1.05	0.72	82.18	0.77	0.56	TO
MUWEYL		80.53	0.58	0.39	82.33	0.92	0.67	CE
MWVLTC		78.93	-1.02	-0.70	80.40	-1.01	-0.74	WY
PNCW33		79.20	-0.75	-0.51	81.05	-0.36	-0.26	TY
QZUNSP		78.33	-1.62	-1.11	80.20	-1.21	-0.88	CE
R4NRXV		80.48	0.53	0.36	81.65	0.24	0.18	AT
R82CYE		80.75	0.80	0.55	82.10	0.69	0.50	CS
RDL215		80.80	0.85	0.58	81.68	0.27	0.19	XX

**Plastics Interlaboratory Testing Program
Analysis 710**

Deflection Temp. Under Flexural Load (1.82 MPa) - Degrees C

WebCode	Data Flag	Sample E63			Sample E64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
RKGLY7		79.38	-0.57	-0.39	80.30	-1.11	-0.81	RO
RZAQYH		78.10	-1.85	-1.26	78.95	-2.46	-1.80	TO
SEGBVC		79.80	-0.15	-0.10	81.98	0.57	0.41	TO
SS9959		79.40	-0.55	-0.37	80.35	-1.06	-0.77	XX
T7LM1U		79.93	-0.02	-0.02	80.93	-0.49	-0.35	TO
ULZVB3	X	90.55	10.60	7.24	90.43	9.02	6.59	CE
WY5BPB		78.50	-1.45	-0.99	80.25	-1.16	-0.85	CE
Y1VRF6		78.50	-1.45	-0.99	79.00	-2.41	-1.76	TO
Y9SPW1	*	79.75	-0.20	-0.14	82.75	1.34	0.98	AT
Z7UHFN	X	78.79	-1.16	-0.79	82.96	1.55	1.13	TO
ZQUUFV		82.33	2.38	1.62	82.90	1.49	1.09	AT

Summary Statistics

Grand Means

79.949 Degrees C

81.410 Degrees C

Std Dev Btwn Labs

1.464 Degrees C

1.369 Degrees C

Statistics based on 40 of 43 reporting participants

Sample E63: ABS & Sample E64: ABS

Comments on assigned Data Flags for Test #710

JHZRH8 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample E64.

ULZVB3 (X) - Data for both samples are high.

Z7UHFN (X) - Inconsistent in testing between samples.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(DN) - DYNISCO

(EM) - Empire-Vortex

(RO) - Rosand

(TO) - Tinius Olsen

(TY) - Toyoseiki

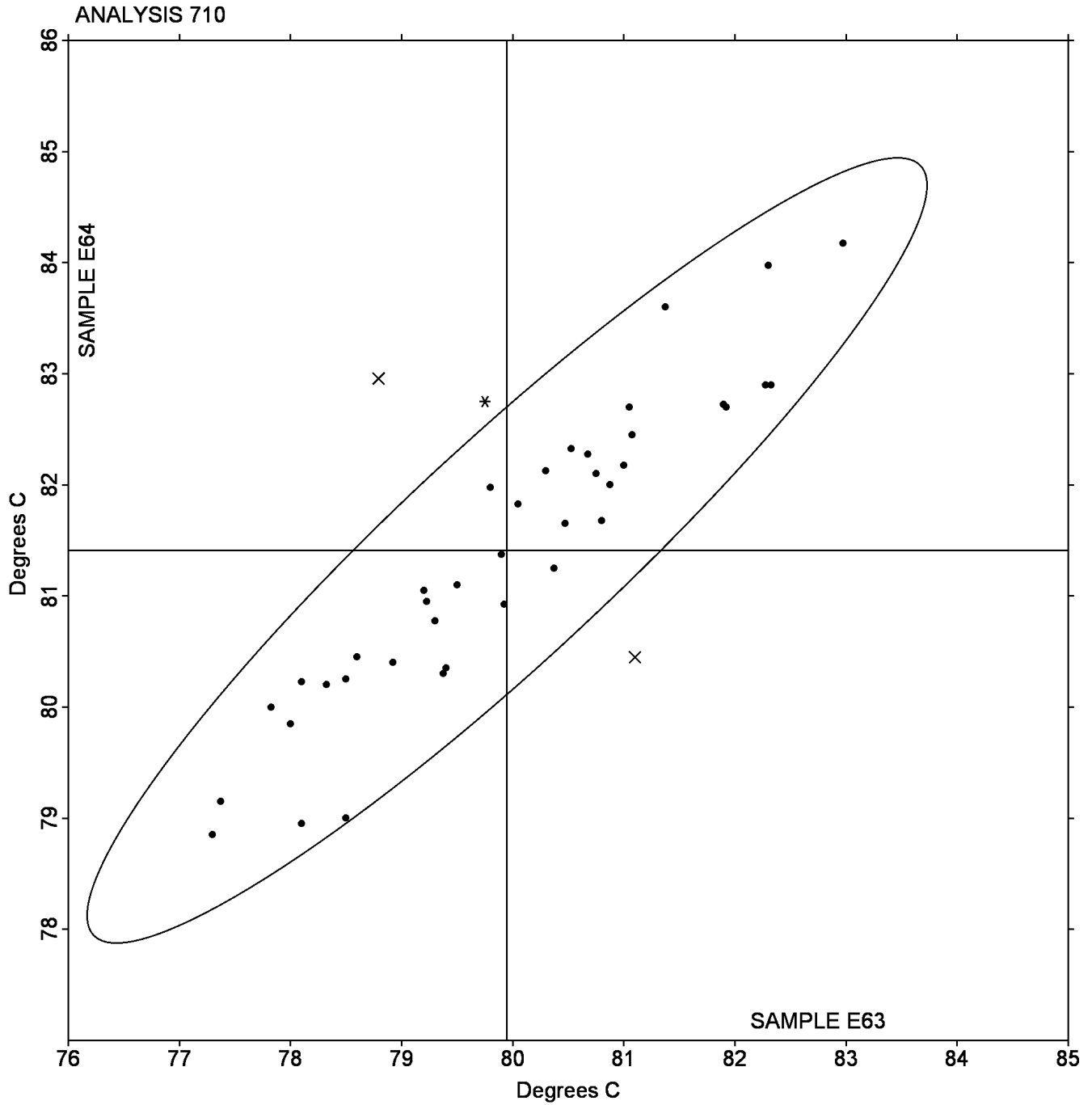
(WY) - Yasuda Seiki

(XA) - Special In-House Instrument

(XX) - Instrument manufacturer not specified by lab

Deflection Temp. Under Flexural Load (1.82 MPa) - Degrees C

Grand Mean Sample E63: 79.949 Degrees C Grand Mean Sample E64: 81.410 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 G63			Sample G64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1194JE		95.6	-0.6	-0.18	115.3	-0.9	-0.38	TO
42AFMK		96.2	0.0	0.00	115.5	-0.8	-0.33	TO
521V72		95.8	-0.4	-0.14	115.5	-0.8	-0.32	CE
856USH	X	94.4	-1.8	-0.57	80.5	-35.8	-14.23	AT
94DNCK	*	89.9	-6.3	-1.96	116.6	0.3	0.13	EM
A7NHFN		100.3	4.1	1.26	119.5	3.2	1.26	XX
B239ZB	M	89.5	-6.7	-2.09	No data reported for this sample			TO
BEY41B		94.0	-2.2	-0.68	113.4	-2.9	-1.16	TO
HJA2CL		102.4	6.2	1.93	120.7	4.4	1.76	TO
KFF4TJ		96.5	0.3	0.10	117.7	1.4	0.55	EM
M6P162		94.8	-1.4	-0.44	115.6	-0.7	-0.28	TO
MNPAND		92.3	-3.9	-1.21	110.6	-5.7	-2.25	CE
NYQRK9		97.8	1.6	0.49	116.8	0.5	0.19	AT
Q2DQFX		95.1	-1.1	-0.34	118.4	2.1	0.85	XX
QY6M3N		95.8	-0.4	-0.11	116.9	0.6	0.24	CE
T42413		102.5	6.3	1.97	119.6	3.4	1.33	EM
TSNKCVC		96.0	-0.2	-0.06	115.1	-1.2	-0.49	XX
XAJUVD		94.1	-2.1	-0.64	113.4	-2.9	-1.15	TO
XPNJDD		96.2	0.0	0.00	116.4	0.1	0.04	CE

Summary Statistics			
Grand Means	96.19	Degrees C	116.27
			Degrees C
Std Dev Btwn Labs	3.22	Degrees C	2.52
			Degrees C
Statistics based on 17 of 19 reporting participants			

Sample G63: PP & Sample G64: PP

Comments on assigned Data Flags for Test #711

856USH (X) - Low data for Sample G64 .

B239ZB (M) - Laboratory did not submit data for Sample G64.

Deflection Temp. Under Flexural Load (0.455 MPa) - Degrees C

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

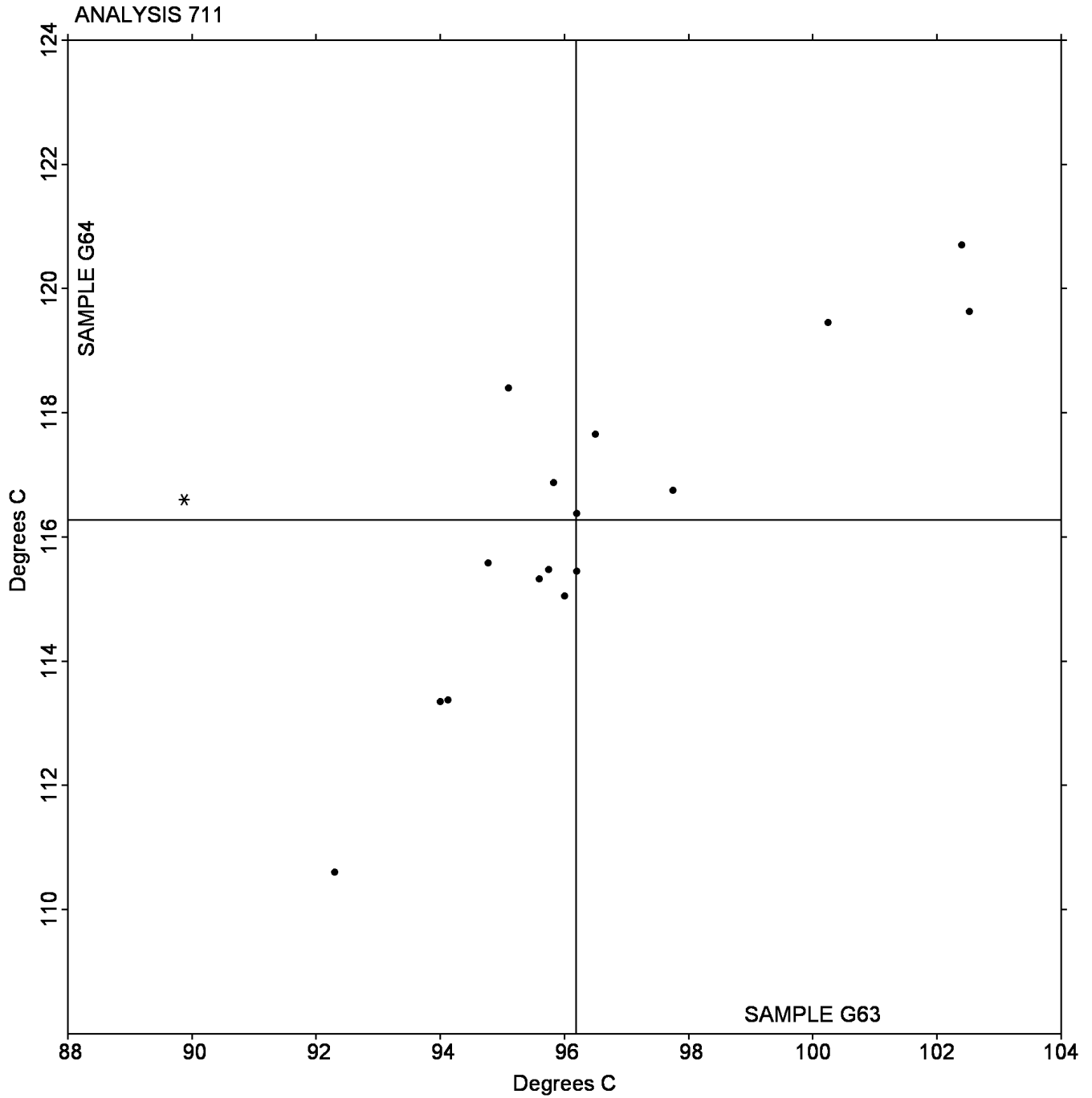
(EM) - Empire-Vortex

(TO) - Tinius Olsen

(XX) - Instrument manufacturer not specified by lab

Deflection Temp. Under Flexural Load (0.455 MPa) - Degrees C

Grand Mean Sample G63: 96.187 Degrees C Grand Mean Sample G64: 116.27 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 712**

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

WebCode	Data Flag	Sample N63			Sample N64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1AKZNR		82.70	1.25	1.01	79.28	1.47	1.19	AT
3M8GWP		81.00	-0.45	-0.36	77.43	-0.38	-0.31	CS
3RBVJ2		81.23	-0.23	-0.18	78.03	0.22	0.18	XX
3UJHH6	*	78.48	-2.98	-2.41	74.45	-3.36	-2.73	TO
44MM9S		83.45	2.00	1.62	79.50	1.69	1.37	EM
4FFB6M	X	88.03	6.58	5.33	84.75	6.94	5.64	XX
55SXHA		79.70	-1.75	-1.42	76.78	-1.03	-0.84	XX
5D6ARC		82.23	0.78	0.63	77.90	0.09	0.07	AT
69TQG5		80.95	-0.50	-0.40	76.83	-0.98	-0.80	RO
7BRWBW		80.00	-1.45	-1.17	77.10	-0.71	-0.57	TO
7GASTL		83.98	2.53	2.05	80.20	2.39	1.94	EM
BMD526		81.80	0.35	0.28	77.10	-0.71	-0.57	DN
E7CGQH		81.73	0.28	0.22	78.10	0.29	0.24	CE
FCUTQX		81.90	0.45	0.36	77.48	-0.33	-0.27	AT
GY3EWV		81.18	-0.28	-0.22	78.25	0.44	0.36	TO
HSN7T3		80.40	-1.05	-0.85	77.30	-0.51	-0.41	CE
JVWU4E		80.58	-0.88	-0.71	76.80	-1.01	-0.82	AT
K9DW7P		81.73	0.28	0.22	77.90	0.09	0.07	XX
LEN86A		81.28	-0.18	-0.14	77.53	-0.28	-0.23	CE
MCW5U1		80.73	-0.73	-0.59	76.70	-1.11	-0.90	XX
MDRVXU		82.00	0.55	0.45	77.10	-0.71	-0.57	CE
MLVD5L		80.10	-1.35	-1.09	76.23	-1.58	-1.29	CE
MS6CTX		82.25	0.80	0.65	77.50	-0.31	-0.25	AT
N9H5TZ		81.18	-0.28	-0.22	77.78	-0.03	-0.03	XX
N9HETQ	*	83.75	2.30	1.86	81.08	3.27	2.65	EM
NQEPY9		82.35	0.90	0.73	79.80	1.99	1.62	AT
PC8W6W		81.58	0.13	0.10	77.53	-0.28	-0.23	TO
PKDK73		81.35	-0.10	-0.08	77.78	-0.03	-0.03	TY
QQZUU6		82.13	0.68	0.55	79.28	1.47	1.19	AD
UM8HHA		82.53	1.08	0.87	79.28	1.47	1.19	XX
UV1XGF		81.30	-0.15	-0.12	77.58	-0.23	-0.19	AT
WTP7GF		81.70	0.25	0.20	77.15	-0.66	-0.53	CE

**Plastics Interlaboratory Testing Program
Analysis 712**

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

WebCode	Data Flag	Sample N63			Sample N64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XH8RCF		82.88	1.43	1.15	78.33	0.52	0.42	AT
XWLLDZ		80.10	-1.35	-1.09	77.45	-0.36	-0.29	AT
YQZEJJ		81.80	0.35	0.28	77.50	-0.31	-0.25	CE
ZZLWXB	*	78.78	-2.68	-2.17	77.33	-0.48	-0.39	CE

Summary Statistics			
Grand Means	81.450	Degrees C	77.808
Std Dev Btwn Labs	1.235	Degrees C	1.232
Statistics based on 35 of 36 reporting participants			

Sample N63: HIPS & **Sample N64:** HIPS

Comments on assigned Data Flags for Test #712

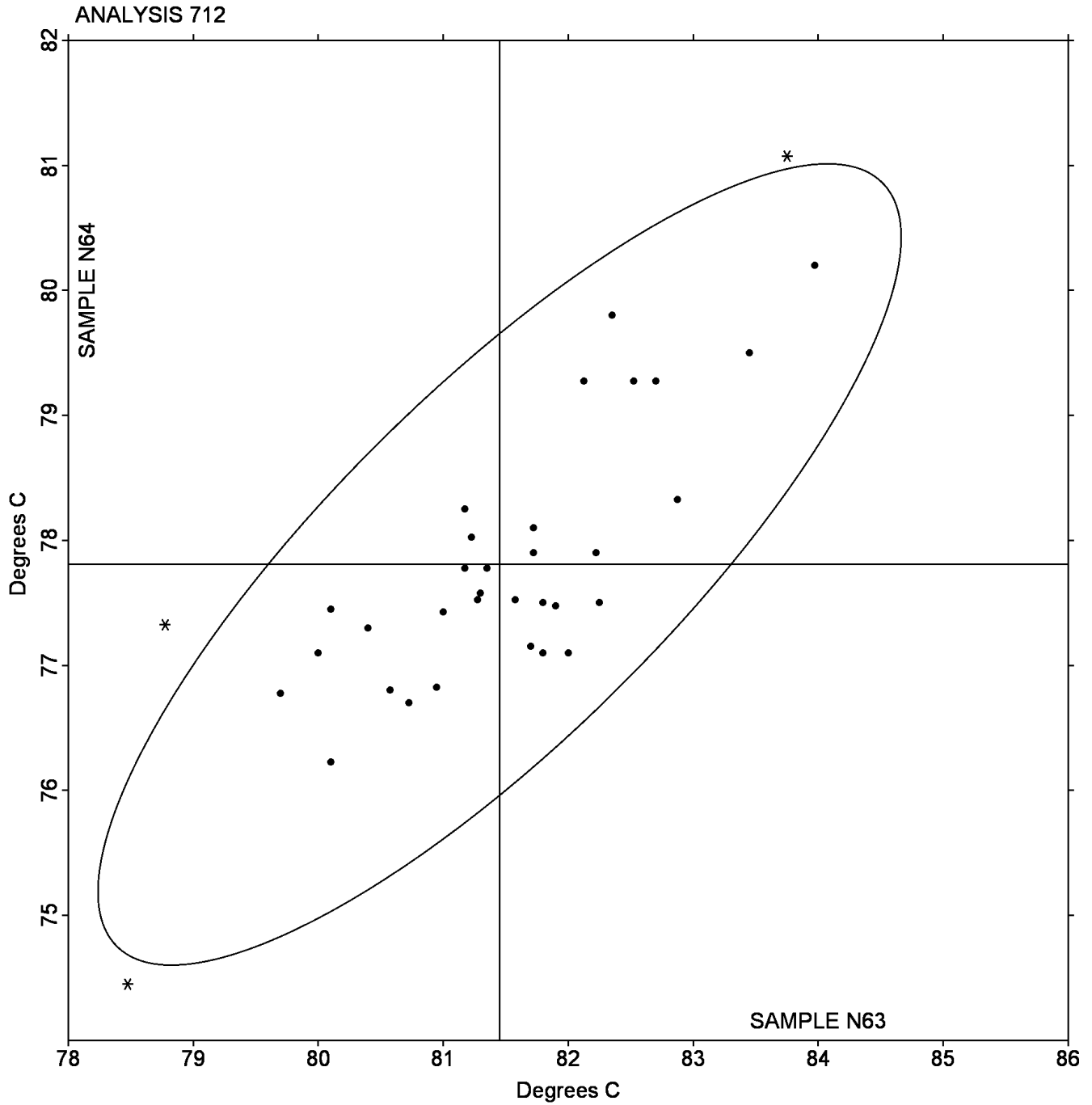
4FFB6M (X) - Data for both samples are high.

Instrument Code List as Reported by the Labs

- | | |
|--------------------------------|---|
| (AD) - AMETEK-DAVENPORT- LLOYD | (AT) - Atlas |
| (CE) - Ceast | (CS) - CSI |
| (DN) - DYNISCO | (EM) - Empire-Vortex |
| (RO) - Rosand | (TO) - Tinius Olsen |
| (TY) - Toyoseiki | (XX) - Instrument manufacturer not specified by lab |

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

Grand Mean Sample N63: 81.450 Degrees C Grand Mean Sample N64: 77.808 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 H63			Sample H64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
19NJGV		104.57	0.97	1.01	105.42	0.54	0.52	CE
1N1NC9		103.50	-0.09	-0.10	104.78	-0.09	-0.09	AT
26ZL7V		103.23	-0.36	-0.37	104.63	-0.24	-0.23	CE
4L2FL4		103.88	0.29	0.30	105.00	0.12	0.12	CE
63X2AM		103.72	0.12	0.13	105.15	0.27	0.26	CS
68EA2J		101.80	-1.79	-1.86	103.05	-1.83	-1.75	TO
6PHCEB		103.50	-0.09	-0.10	105.17	0.29	0.28	CE
7AK8YX		104.12	0.52	0.54	105.80	0.92	0.88	CE
8HVQ7H		103.00	-0.59	-0.61	104.15	-0.73	-0.70	CS
9BX7W5		104.00	0.41	0.42	105.12	0.24	0.23	AT
AG7F32	*	106.23	2.63	2.73	107.33	2.45	2.35	AT
BH8RUG		105.75	2.16	2.23	107.18	2.31	2.21	EM
EYCJMG		102.77	-0.83	-0.86	103.95	-0.93	-0.89	CE
FPKHQ4		103.05	-0.54	-0.56	103.93	-0.94	-0.91	AT
GUZMN4		103.28	-0.31	-0.32	104.02	-0.86	-0.83	CE
H83ARJ		102.87	-0.73	-0.75	104.12	-0.76	-0.73	CE
PAYE1R		102.47	-1.13	-1.17	103.55	-1.33	-1.27	CE
R27ZKY		103.42	-0.18	-0.18	104.72	-0.16	-0.15	TY
S466C3		104.68	1.09	1.13	106.05	1.17	1.12	EM
SKUJK3		103.37	-0.23	-0.23	104.73	-0.14	-0.14	AT
TA548K		103.22	-0.38	-0.39	104.52	-0.36	-0.35	CE
TK4G6T	*	104.32	0.72	0.75	106.42	1.54	1.48	XX
VXSMMZ		102.97	-0.63	-0.65	104.00	-0.88	-0.84	RO
X6HNNH3		103.23	-0.36	-0.37	105.03	0.16	0.15	DN
XF4TA1		103.68	0.09	0.09	104.88	0.01	0.01	RO
ZFANG6		104.15	0.56	0.58	105.47	0.59	0.56	CE
ZXKC4X		102.25	-1.34	-1.39	103.55	-1.33	-1.27	XX

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

Summary Statistics**Grand Means**

103.593 Degrees C

104.878 Degrees C

Std Dev Btwn Labs

0.965 Degrees C

1.043 Degrees C

Statistics based on 27 of 27 reporting participants**Sample H63: ABS & Sample H64: ABS****Instrument Code List as Reported by the Labs**

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(DN) - DYNISCO

(EM) - Empire-Vortex

(RO) - Rosand

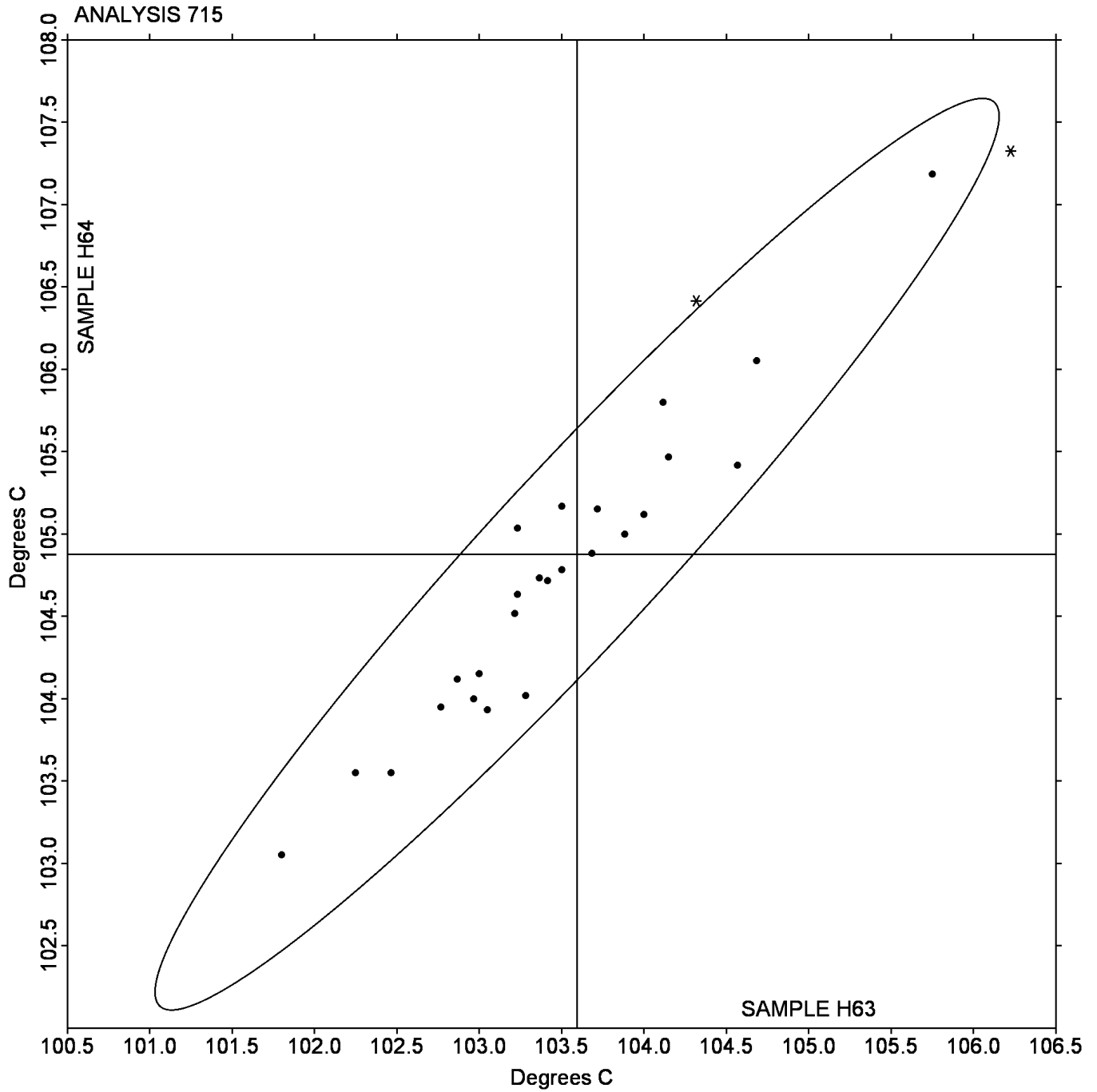
(TO) - Tinius Olsen

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample H63: 103.59 Degrees C Grand Mean Sample H64: 104.88 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 R63			Sample R64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2EQLR9		105.98	0.61	0.57	106.55	0.24	0.24	AT
5RGQRQ		107.23	1.86	1.75	108.40	2.09	2.03	EM
75TQS8		104.62	-0.76	-0.71	105.20	-1.11	-1.07	CE
79WK4A		106.00	0.63	0.59	106.83	0.53	0.51	CE
8HK4ZQ		104.68	-0.69	-0.65	105.55	-0.76	-0.73	XX
9KA94S		103.93	-1.44	-1.35	105.05	-1.26	-1.22	TO
BEQX79		104.25	-1.12	-1.05	105.30	-1.01	-0.97	CE
E1ZL9B		105.38	0.01	0.01	106.40	0.09	0.09	XX
FWT6XH		105.70	0.33	0.31	106.38	0.08	0.07	DN
GEGM8K		104.68	-0.69	-0.65	105.67	-0.64	-0.62	TY
GJDSYP		104.12	-1.26	-1.18	105.03	-1.27	-1.23	TO
HX6UUA		105.73	0.36	0.34	107.15	0.84	0.82	XX
LPBKG8		106.98	1.61	1.51	107.70	1.39	1.35	CE
MC2BLW		106.05	0.68	0.64	106.35	0.04	0.04	XX
MM225H		106.20	0.83	0.78	107.75	1.44	1.40	CE
N65GXP	X	110.20	4.83	4.53	111.55	5.24	5.07	AT
NF5SN5	*	108.48	3.11	2.92	108.97	2.66	2.57	EM
NVJH1R		104.73	-0.64	-0.60	105.75	-0.56	-0.54	AT
P3FSQG		105.65	0.28	0.26	106.98	0.68	0.66	TO
PJNRUD		105.10	-0.27	-0.26	106.25	-0.06	-0.05	EM
QX51YU		105.00	-0.37	-0.35	106.20	-0.11	-0.10	AT
RN3B2W	X	95.48	-9.89	-9.29	95.58	-10.72	-10.37	TO
SHXSW5		104.53	-0.84	-0.79	105.88	-0.42	-0.41	CE
SWA4AR		104.87	-0.51	-0.48	105.43	-0.87	-0.84	XX
T13RJ5		105.37	-0.01	-0.01	106.23	-0.07	-0.07	RO
TBKGZ2		105.58	0.21	0.20	106.60	0.29	0.28	AT
US9UZF		104.38	-0.99	-0.93	105.48	-0.82	-0.80	CS
V17X5Q		106.55	1.18	1.11	107.15	0.84	0.82	XX
WPGK1Y		104.30	-1.07	-1.01	105.02	-1.29	-1.25	XX
Z2XLH2		104.33	-1.04	-0.98	105.30	-1.01	-0.97	CE

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

Summary Statistics			
Grand Means	105.373	Degrees C	106.306
			Degrees C
Stnd Dev Btwn Labs	1.065	Degrees C	1.034
			Degrees C
Statistics based on 28 of 30 reporting participants			

Sample R63: ABS & **Sample R64:** ABS

Comments on assigned Data Flags for Test #716

N65GXP (X) - Data for both samples are high.

RN3B2W (X) - Data for both samples are low.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(DN) - DYNISCO

(EM) - Empire-Vortex

(RO) - Rosand

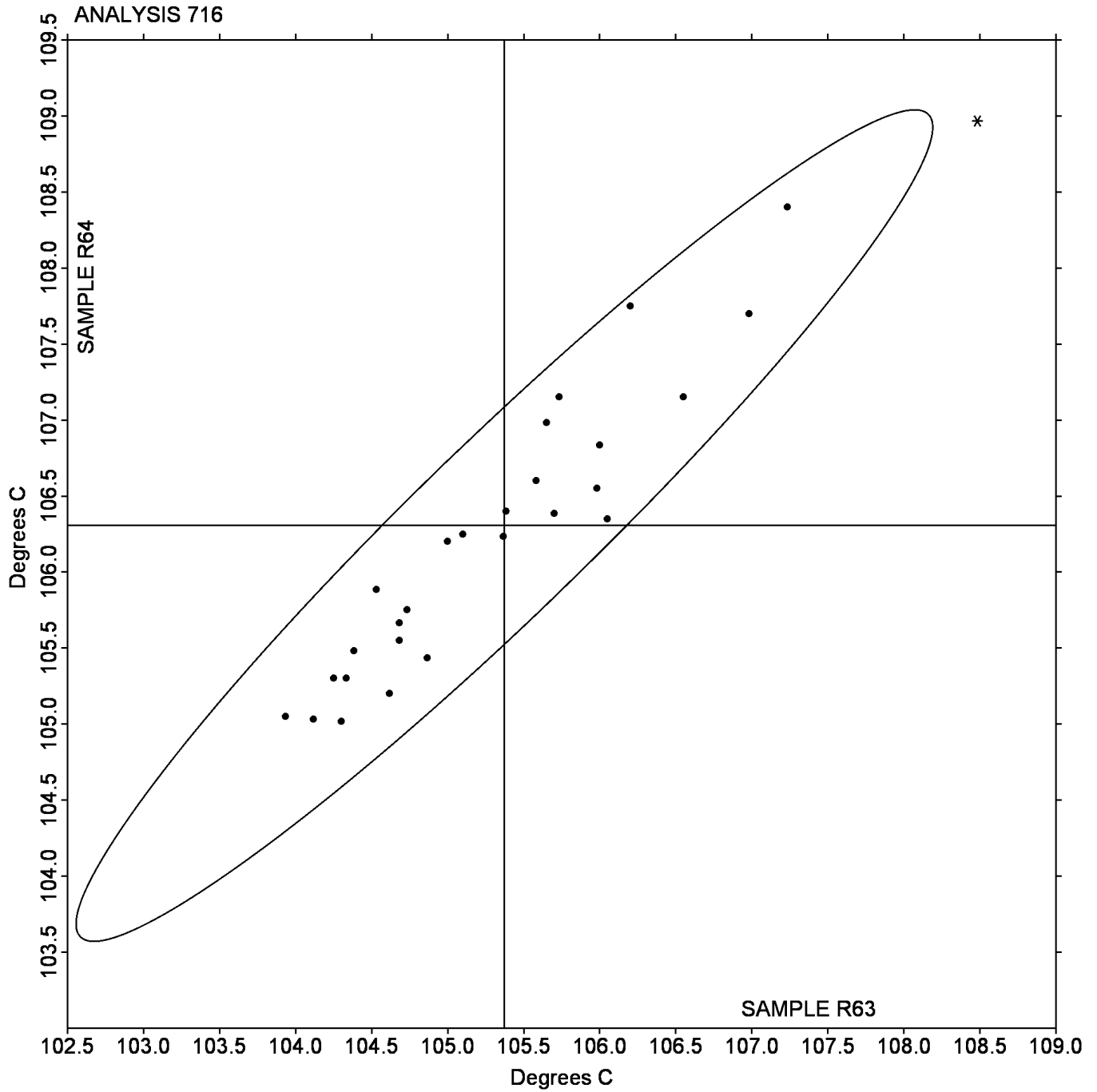
(TO) - Tinius Olsen

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample R63: 105.37 Degrees C Grand Mean Sample R64: 106.31 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 750

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

WebCode	Data Flag	Sample X63			Sample X64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
12PJZ2		6.40	-0.15	-0.69	5.90	-0.12	-0.58	TO
1ATS51		6.40	-0.15	-0.69	5.65	-0.37	-1.81	TO
1KV1HS		6.57	0.02	0.08	5.97	-0.05	-0.23	GO
1LCY4Q	X	7.85	1.30	5.84	6.30	0.28	1.41	TO
25D5PW		6.65	0.10	0.44	5.90	-0.12	-0.58	TA
2A7M17		6.64	0.09	0.39	6.14	0.12	0.61	TO
2CHWE5	X	5.66	-0.90	-4.04	5.46	-0.56	-2.76	TO
2GN2Q6		6.50	-0.05	-0.24	5.80	-0.22	-1.07	TO
2PUNZM	X	5.54	-1.01	-4.55	5.15	-0.87	-4.29	XX
2UK4MY		6.45	-0.10	-0.46	6.00	-0.02	-0.08	TO
2VYH4F		6.84	0.29	1.29	6.22	0.21	1.02	TO
3F9LZJ		6.65	0.10	0.44	6.10	0.08	0.42	XX
3RZZHE		6.80	0.25	1.11	6.30	0.28	1.41	KA
45QWU3		6.45	-0.11	-0.48	6.10	0.08	0.39	TO
4E3UT8		6.52	-0.04	-0.17	6.02	0.00	-0.01	TO
4G2BSV		6.55	0.00	-0.01	6.20	0.18	0.91	TO
4L6F1G		6.38	-0.18	-0.80	5.86	-0.16	-0.80	TO
4Z39YX		6.60	0.04	0.19	6.20	0.18	0.89	AT
5EETNH		6.85	0.29	1.32	6.31	0.29	1.43	CS
5FAJKJ		6.27	-0.29	-1.29	5.74	-0.28	-1.39	HA
5G49PC		6.30	-0.25	-1.14	5.95	-0.07	-0.33	TO
62MQLA		6.80	0.25	1.11	6.00	-0.02	-0.08	TO
67TBDE		6.79	0.24	1.07	6.20	0.18	0.91	XX
6JEYZ7		6.62	0.06	0.28	6.28	0.26	1.31	TO
6VXP6C		6.50	-0.05	-0.24	5.95	-0.07	-0.33	TO
6Y4GMB		6.20	-0.36	-1.60	5.65	-0.36	-1.79	WZ
7CAA4L		6.52	-0.03	-0.15	5.95	-0.07	-0.33	XX
7PWACU		6.58	0.02	0.10	5.97	-0.05	-0.25	TO
7UYHGB		6.45	-0.10	-0.46	6.00	-0.02	-0.08	TO
8324K3		7.00	0.45	2.01	6.40	0.38	1.90	TO
87WWX6		6.38	-0.17	-0.78	5.77	-0.25	-1.23	DY
8RZA6Z	X	5.78	-0.77	-3.47	5.81	-0.21	-1.02	KA

Plastics Interlaboratory Testing Program
Analysis 750

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

WebCode	Data Flag	Sample X63			Sample X64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
8Z4HAD		6.47	-0.09	-0.39	5.78	-0.24	-1.17	TO
9A1DZF		6.55	0.00	-0.01	5.95	-0.07	-0.33	TO
9E2ZNH		6.62	0.06	0.28	6.00	-0.02	-0.08	CE
9RD3B2		6.45	-0.10	-0.46	6.05	0.03	0.17	TO
A6UDNV		6.40	-0.15	-0.69	6.00	-0.02	-0.08	TO
AKAW9P		6.20	-0.35	-1.59	5.85	-0.17	-0.82	TO
ARC6FG		6.25	-0.30	-1.36	6.00	-0.02	-0.08	CS
AVV3LL		6.80	0.25	1.11	6.05	0.03	0.17	TO
BUMT9M		6.36	-0.19	-0.85	6.10	0.08	0.39	TO
C4Y4TQ		6.39	-0.17	-0.75	5.75	-0.27	-1.34	DY
C8GKKQ		6.21	-0.34	-1.54	5.80	-0.22	-1.10	GO
CAUEKG		6.23	-0.33	-1.47	5.92	-0.10	-0.50	CE
CE3CYA		6.55	0.00	-0.01	6.15	0.13	0.66	TO
CQ9K4G		6.80	0.25	1.11	5.95	-0.07	-0.33	GO
D1KNDJ		6.65	0.10	0.44	6.00	-0.02	-0.08	KA
D4J2YN		6.31	-0.24	-1.10	5.83	-0.19	-0.93	DY
DKBJ4L	*	7.16	0.61	2.74	6.55	0.53	2.63	XX
DPK159		6.15	-0.40	-1.81	5.80	-0.22	-1.07	TO
DQBFFZ		6.41	-0.14	-0.64	6.06	0.04	0.19	TO
DU16CV	*	5.96	-0.60	-2.69	5.84	-0.18	-0.87	TO
DYQZHG	*	6.63	0.08	0.36	5.69	-0.32	-1.60	QT
EA7S9Q		6.45	-0.10	-0.46	5.80	-0.22	-1.07	TO
EK6Y2X		6.66	0.10	0.46	6.02	0.00	0.00	TO
ET37NV		6.55	0.00	-0.01	6.00	-0.02	-0.08	GO
FWWE2J		6.45	-0.10	-0.46	5.95	-0.07	-0.33	TO
G6JYE9		6.95	0.40	1.79	6.50	0.48	2.40	TO
G7XB5R		6.44	-0.11	-0.51	6.11	0.09	0.46	TO
GQNARA		6.60	0.05	0.21	5.85	-0.17	-0.82	DY
GTSHBT		6.47	-0.08	-0.37	5.86	-0.16	-0.77	WZ
HC5NPF		6.65	0.10	0.44	5.80	-0.22	-1.07	TO
HPF3PT		6.48	-0.08	-0.35	6.01	-0.01	-0.03	TO
JQT8N4		6.59	0.03	0.15	6.05	0.03	0.14	XX

Plastics Interlaboratory Testing Program
Analysis 750

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

WebCode	Data Flag	Sample X63			Sample X64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
JW2YHH		6.65	0.10	0.46	6.08	0.06	0.29	GO
JZTD7Y	X	5.95	-0.60	-2.71	5.05	-0.97	-4.79	CS
K7FL2V	X	6.62	0.07	0.30	5.46	-0.56	-2.76	TO
K84UUR		6.49	-0.06	-0.28	5.92	-0.10	-0.49	DY
KM7NET		6.88	0.33	1.47	6.23	0.21	1.06	XX
L2QHV3		6.55	0.00	-0.01	6.05	0.03	0.14	TO
L7L8KN		6.58	0.02	0.10	6.00	-0.02	-0.08	KA
LGNLJ2	X	6.16	-0.40	-1.79	5.25	-0.77	-3.80	DY
LN3ECL		6.45	-0.10	-0.46	5.90	-0.12	-0.58	TO
LNFSWC	*	7.01	0.45	2.03	6.62	0.60	2.99	TO
LU16EN		6.60	0.05	0.21	5.80	-0.22	-1.07	TO
M1LJZ7		6.66	0.11	0.48	6.26	0.24	1.21	KA
MZZGQE		6.80	0.25	1.11	6.00	-0.02	-0.08	TO
N9M2J4		6.88	0.33	1.47	6.31	0.30	1.47	KA
NBJMX9		6.30	-0.26	-1.16	5.90	-0.12	-0.60	KA
NGNGMB	X	2.55	-4.00	-17.99	2.50	-3.52	-17.44	CE
NQU1P1	*	6.19	-0.37	-1.65	6.11	0.09	0.44	TO
NSQS2D		7.00	0.45	2.01	6.50	0.48	2.40	TO
PLRHST	X	6.49	-0.07	-0.30	5.49	-0.53	-2.63	CE
PPLYPN		6.45	-0.10	-0.46	5.96	-0.06	-0.30	TO
Q6RQCP	X	5.70	-0.85	-3.84	5.40	-0.62	-3.05	KA
Q8138Q	*	7.04	0.49	2.19	6.58	0.56	2.77	TO
QSF91Z		6.80	0.25	1.11	6.20	0.18	0.91	TY
R817UD		6.50	-0.05	-0.24	6.10	0.08	0.42	TO
RGM1JA		6.35	-0.21	-0.93	5.92	-0.10	-0.50	XX
RQD63F		6.50	-0.05	-0.24	6.05	0.03	0.17	TO
SFGJNB		6.40	-0.15	-0.69	5.85	-0.17	-0.82	TO
SKB1HB		6.82	0.26	1.18	6.21	0.19	0.94	WZ
SQSYF5		6.40	-0.15	-0.69	6.05	0.03	0.17	TO
SYMEBP		6.50	-0.05	-0.24	5.95	-0.07	-0.33	CE
T7ANEB		6.40	-0.15	-0.69	5.75	-0.27	-1.32	TM

Plastics Interlaboratory Testing Program
Analysis 750

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

WebCode	Data Flag	Sample X63			Sample X64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
T8YQWC		6.40	-0.15	-0.69	5.90	-0.12	-0.58	TO
T9SFZ6		7.04	0.49	2.19	6.48	0.46	2.30	TO
TQSKXR		6.47	-0.09	-0.39	5.98	-0.04	-0.20	TO
TS4VV1		6.75	0.20	0.89	6.05	0.03	0.17	GO
UD84DB		6.46	-0.09	-0.42	5.91	-0.11	-0.53	DY
UHW2AC	X	5.64	-0.91	-4.11	5.42	-0.60	-2.95	TO
UVAYR3		6.56	0.01	0.03	6.07	0.05	0.27	DY
V2YTRY		6.29	-0.26	-1.18	6.02	0.00	-0.01	KA
VCH3KY		6.75	0.20	0.89	6.10	0.08	0.42	XX
VM7U6R		6.43	-0.13	-0.57	5.92	-0.10	-0.48	TO
VWXVN7		6.55	0.00	-0.01	5.85	-0.17	-0.82	TO
W1JYHC		6.50	-0.05	-0.24	5.88	-0.14	-0.70	TO
W23ZX6		6.78	0.22	1.00	5.99	-0.03	-0.13	KA
W3SW46		6.65	0.10	0.44	6.25	0.23	1.16	TO
W85YPV		6.18	-0.38	-1.70	6.02	0.00	-0.01	TO
W9AV8E		6.43	-0.12	-0.54	5.91	-0.11	-0.55	XX
WVMTQM	*	6.41	-0.14	-0.64	5.55	-0.47	-2.33	TO
X4MZC7		6.60	0.04	0.19	6.05	0.03	0.17	HA
XGFJK5		6.85	0.30	1.34	5.95	-0.07	-0.33	TO
YK9EBX		6.80	0.25	1.11	6.11	0.09	0.46	KA
YWVFK6	X	4.85	-1.70	-7.66	4.86	-1.16	-5.75	CS
Z63YPT		6.55	0.00	-0.01	5.95	-0.07	-0.33	TO

Summary Statistics

Grand Means

6.553 grams/10 mins

6.016 grams/10 mins

Std Dev Btwn Labs

0.222 grams/10 mins

0.202 grams/10 mins

Statistics based on 105 of 117 reporting participants

Sample X63: LDPE & Sample X64: LDPE

Flow Rates of Thermoplastics (190 or 230C/2.16 kg) - G/10 mins**Comments on assigned Data Flags for Test #750**

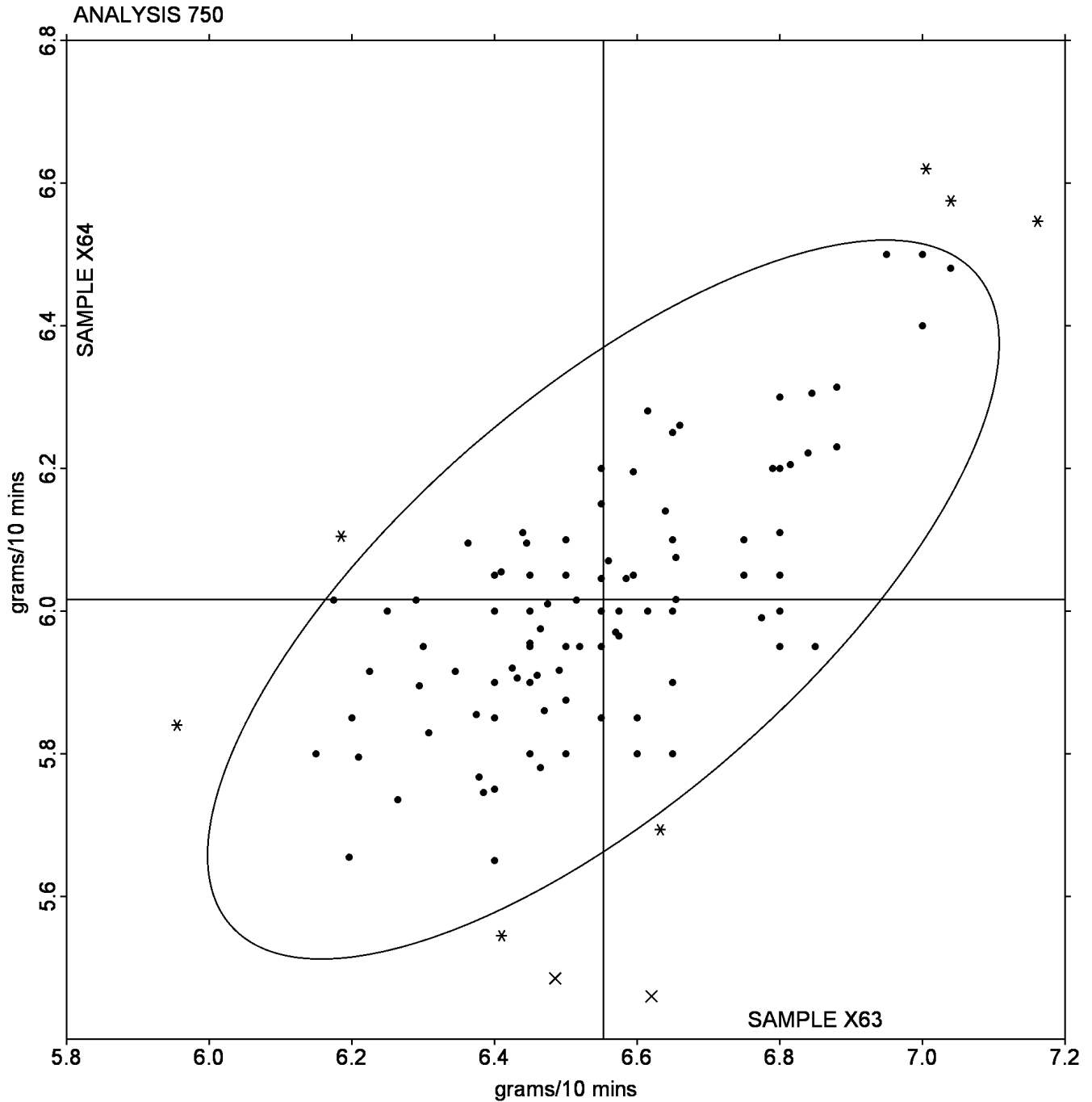
- 1LCY4Q (X) - Inconsistent in testing between samples, data for Sample X63 are high.
- 2CHWE5 (X) - Inconsistent in testing between samples, data for Sample X63 are low.
- 2PUNZM (X) - Data for both samples are low
- 8RZA6Z (X) - Inconsistent in testing between samples, data for Sample X63 are low.
- JZTD7Y (X) - Inconsistent in testing between samples, data for Sample X64 are low.
- K7FL2V (X) - Inconsistent in testing between samples.
- LGNLJ2 (X) - Inconsistent in testing between samples, data for Sample X64 are low. Also inconsistent in testing within Sample X64.
- NGNGMB (X) - Data for both samples are low.
- PLRHST (X) - Inconsistent in testing between samples.
- Q6RQCP (X) - Data for both samples are low. Possible Systematic Error.
- UHW2AC (X) - Data for both samples are low
- YWVFK6 (X) - Data for both samples are low

Instrument Code List as Reported by the Labs

(AT) - Atlas	(CE) - Ceast
(CS) - CSI	(DY) - Dynisco
(GO) - Gottfert	(HA) - Haake
(KA) - Kayeness	(QT) - Qualitest
(TA) - Takara	(TM) - TMI
(TO) - Tinius Olsen	(TY) - Toyoseiki Seisakusho
(WZ) - Zwick	(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample X63: 6.5526 grams/10 mins Grand Mean Sample X64: 6.0162 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 T63			Sample T64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
19TYNU		1.03293	0.00035	0.21	1.03303	0.00047	0.29	XX
1PTFB9		1.03067	-0.00191	-1.15	1.03060	-0.00197	-1.21	XX
1PXVRV		1.03377	0.00119	0.71	1.03350	0.00093	0.57	XX
2B6F6S		1.03357	0.00099	0.59	1.03397	0.00140	0.86	XX
2PR5VW		1.03223	-0.00035	-0.21	1.03323	0.00067	0.41	XX
2ZMBRF		1.03533	0.00275	1.65	1.03400	0.00143	0.88	XX
366WDT	*	1.02800	-0.00458	-2.74	1.02867	-0.00390	-2.40	XX
37S6L2		1.03167	-0.00091	-0.55	1.03200	-0.00057	-0.35	XX
437587		1.03417	0.00159	0.95	1.03453	0.00197	1.21	XX
4CV5HQ		1.03423	0.00165	0.99	1.03427	0.00170	1.04	XX
4WPU2Y		1.03217	-0.00041	-0.25	1.03387	0.00130	0.80	XX
5FLCAS	X	1.03570	0.00312	1.87	1.03287	0.00030	0.18	XX
5L855D		1.03117	-0.00141	-0.85	1.02983	-0.00273	-1.68	XX
5QMZMW		1.03437	0.00179	1.07	1.03423	0.00167	1.02	XX
5RFALZ		1.03380	0.00122	0.73	1.03410	0.00153	0.94	XX
5Z53R4		1.03273	0.00015	0.09	1.03260	0.00003	0.02	XX
61LVNC		1.03433	0.00175	1.05	1.03410	0.00153	0.94	XX
6EGJ8B		1.03133	-0.00125	-0.75	1.03267	0.00010	0.06	XX
6NHW4U		1.03472	0.00214	1.28	1.03447	0.00190	1.17	XX
6W7UJ2		1.03133	-0.00125	-0.75	1.03127	-0.00130	-0.80	XX
74PCQM		1.03340	0.00082	0.49	1.03273	0.00017	0.10	XX
77LR1V		1.03307	0.00049	0.29	1.03303	0.00047	0.29	XX
7F7S7E		1.03440	0.00182	1.09	1.03423	0.00167	1.02	XX
7H2CBR		1.03397	0.00139	0.83	1.03443	0.00187	1.15	XX
7KNA8W		1.03183	-0.00075	-0.45	1.03263	0.00007	0.04	XX
82HXTL		1.03000	-0.00258	-1.54	1.03067	-0.00190	-1.17	XX
8SUZ41	X	1.02833	-0.00425	-2.54	1.03133	-0.00123	-0.76	XX
8VFQHC		1.03433	0.00175	1.05	1.03300	0.00043	0.27	XX
95GMVD		1.03410	0.00152	0.91	1.03430	0.00173	1.07	XX
9JNXVT		1.03447	0.00189	1.13	1.03460	0.00203	1.25	XX
9MT94E		1.03093	-0.00165	-0.99	1.03103	-0.00153	-0.94	XX
ACPQAB	X	1.03210	-0.00048	-0.29	1.02933	-0.00323	-1.99	XX

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

WebCode	Data Flag	Sample T63			Sample T64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
AF8MXG		1.03100	-0.00158	-0.95	1.03017	-0.00240	-1.48	XX
AJTKDK		1.03377	0.00119	0.71	1.03377	0.00120	0.74	XX
AK6Y1T		1.03364	0.00106	0.64	1.03371	0.00114	0.70	XX
ALMMKE		1.03107	-0.00151	-0.91	1.03057	-0.00200	-1.23	XX
ASNKUX		1.03253	-0.00005	-0.03	1.03293	0.00037	0.22	XX
AUFZF7	X	1.03200	-0.00058	-0.35	1.02837	-0.00420	-2.58	XX
B4JW35		1.03447	0.00189	1.13	1.03337	0.00080	0.49	XX
BLAG9H		1.03350	0.00092	0.55	1.03307	0.00050	0.31	XX
BN3YHB		1.03420	0.00162	0.97	1.03343	0.00087	0.53	XX
CLBCA6		1.03467	0.00209	1.25	1.03467	0.00210	1.29	XX
DPBUB7		1.03127	-0.00131	-0.79	1.03147	-0.00110	-0.68	XX
DWLTEB		1.02953	-0.00305	-1.82	1.03000	-0.00257	-1.58	XX
DZH1GD		1.03167	-0.00091	-0.55	1.03293	0.00037	0.22	XX
E6E2AC		1.03233	-0.00025	-0.15	1.03223	-0.00033	-0.21	XX
E6ELZU		1.03390	0.00132	0.79	1.03353	0.00097	0.59	XX
EAHPBW		1.03173	-0.00085	-0.51	1.03277	0.00020	0.12	XX
ENXJY1	X	1.03703	0.00445	2.67	1.03300	0.00043	0.27	XX
ERKE3Z	X	1.03380	0.00122	0.73	1.03753	0.00497	3.05	XX
ES76PD		1.03300	0.00042	0.25	1.03203	-0.00053	-0.33	XX
EX6GZ4		1.03377	0.00119	0.71	1.03367	0.00110	0.68	XX
FKZTSK		1.03110	-0.00148	-0.89	1.03017	-0.00240	-1.48	XX
FP58QB		1.03017	-0.00241	-1.44	1.03050	-0.00207	-1.27	XX
FXSDAW		1.03267	0.00009	0.05	1.03333	0.00077	0.47	XX
G2JE3G		1.03347	0.00089	0.53	1.03343	0.00087	0.53	XX
G3VMCH		1.03010	-0.00248	-1.48	1.03137	-0.00120	-0.74	XX
G4DEJM		1.03380	0.00122	0.73	1.03403	0.00147	0.90	XX
G6SAEX		1.03177	-0.00081	-0.49	1.03203	-0.00053	-0.33	XX
GXZZ3G	X	1.02817	-0.00441	-2.64	1.03213	-0.00043	-0.27	XX
GY43K1		1.03133	-0.00125	-0.75	1.03117	-0.00140	-0.86	XX
HK6CEF		1.03227	-0.00031	-0.19	1.03217	-0.00040	-0.25	XX
HW3W1T		1.03447	0.00189	1.13	1.03387	0.00130	0.80	XX
JDY947		1.03403	0.00145	0.87	1.03403	0.00147	0.90	XX

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

WebCode	Data Flag	Sample T63			Sample T64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
JUJ6XM		1.03247	-0.00011	-0.07	1.03167	-0.00090	-0.55	XX
L5C6KA	X	1.02897	-0.00361	-2.16	1.02740	-0.00517	-3.18	XX
LPKZ74		1.03197	-0.00061	-0.37	1.03180	-0.00077	-0.47	XX
LSCPAG		1.03390	0.00132	0.79	1.03393	0.00137	0.84	XX
MJ2Q9J		1.03137	-0.00121	-0.73	1.03230	-0.00027	-0.17	XX
MUB5JQ		1.03487	0.00229	1.37	1.03480	0.00223	1.37	XX
MZCA4U		1.03353	0.00095	0.57	1.03380	0.00123	0.76	XX
NGTXUA		1.03330	0.00072	0.43	1.03267	0.00010	0.06	XX
NJE61K	*	1.02847	-0.00411	-2.46	1.02860	-0.00397	-2.44	XX
NXEC5U		1.03530	0.00272	1.63	1.03523	0.00267	1.64	XX
PKDYUG	*	1.02947	-0.00311	-1.86	1.03127	-0.00130	-0.80	XX
PKNYNC		1.03337	0.00079	0.47	1.03403	0.00147	0.90	XX
PWTRPH		1.03087	-0.00171	-1.03	1.03163	-0.00093	-0.58	XX
PXS3AC	X	1.03077	-0.00181	-1.09	1.02677	-0.00580	-3.57	XX
QGYUUR	*	1.03290	0.00032	0.19	1.03093	-0.00163	-1.01	XX
QH5STV		1.03283	0.00025	0.15	1.03110	-0.00147	-0.90	XX
QVWCGY		1.02967	-0.00291	-1.74	1.02900	-0.00357	-2.20	XX
QZBC3A		1.03023	-0.00235	-1.40	1.02920	-0.00337	-2.07	XX
R389WA		1.03367	0.00109	0.65	1.03300	0.00043	0.27	XX
SFPLVX		1.03067	-0.00191	-1.15	1.03040	-0.00217	-1.33	XX
SGSLAA		1.03420	0.00162	0.97	1.03427	0.00170	1.04	XX
SLDS16	X	0.97340	-0.05918	-35.43	0.97323	-0.05933	-36.50	XX
TAGEVK		1.03367	0.00109	0.65	1.03433	0.00177	1.09	XX
TDVB1M	X	1.03023	-0.00235	-1.40	1.02703	-0.00553	-3.41	XX
TEU577		1.03433	0.00175	1.05	1.03400	0.00143	0.88	XX
TNNCSX		1.03123	-0.00135	-0.81	1.03173	-0.00083	-0.51	XX
U4B1LT	X	1.03207	-0.00051	-0.31	1.02967	-0.00290	-1.79	XX
UC8RAA		1.02867	-0.00391	-2.34	1.02967	-0.00290	-1.79	XX
UG6UB9	X	1.02350	-0.00908	-5.44	1.02337	-0.00920	-5.66	XX
V2VW1V		1.03403	0.00145	0.87	1.03407	0.00150	0.92	XX
V8KRFM		1.02960	-0.00298	-1.78	1.03000	-0.00257	-1.58	XX

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

WebCode	Data Flag	Sample T63			Sample T64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
W3W765	X	1.02767	-0.00491	-2.94	1.03383	0.00127	0.78	XX
WCA64E	*	1.03200	-0.00058	-0.35	1.02990	-0.00267	-1.64	XX
WH653P		1.03263	0.00005	0.03	1.03300	0.00043	0.27	XX
XG5SVM		1.03337	0.00079	0.47	1.03217	-0.00040	-0.25	XX
XHWRXZ		1.03290	0.00032	0.19	1.03463	0.00207	1.27	XX
XSBVE5		1.03403	0.00145	0.87	1.03280	0.00023	0.14	XX
Y84P1W		1.03233	-0.00025	-0.15	1.03340	0.00083	0.51	XX
Y9T9CU	X	1.02133	-0.01125	-6.73	1.02600	-0.00657	-4.04	XX
ZC83R6		1.03373	0.00115	0.69	1.03360	0.00103	0.63	XX
ZC8MEN		1.03207	-0.00051	-0.31	1.03207	-0.00050	-0.31	XX
ZHK5XV		1.03423	0.00165	0.99	1.03430	0.00173	1.07	XX
ZLH27G		1.03123	-0.00135	-0.81	1.03097	-0.00160	-0.99	XX

Summary Statistics			
Grand Means	1.032580	sp gr 23/23 C	1.032568
			sp gr 23/23 C
Std Dev Btwn Labs	0.001670	sp gr 23/23 C	0.001625
			sp gr 23/23 C
Statistics based on 92 of 107 reporting participants			

Sample T63: HIPS & Sample T64: HIPS

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

Comments on assigned Data Flags for Test #718

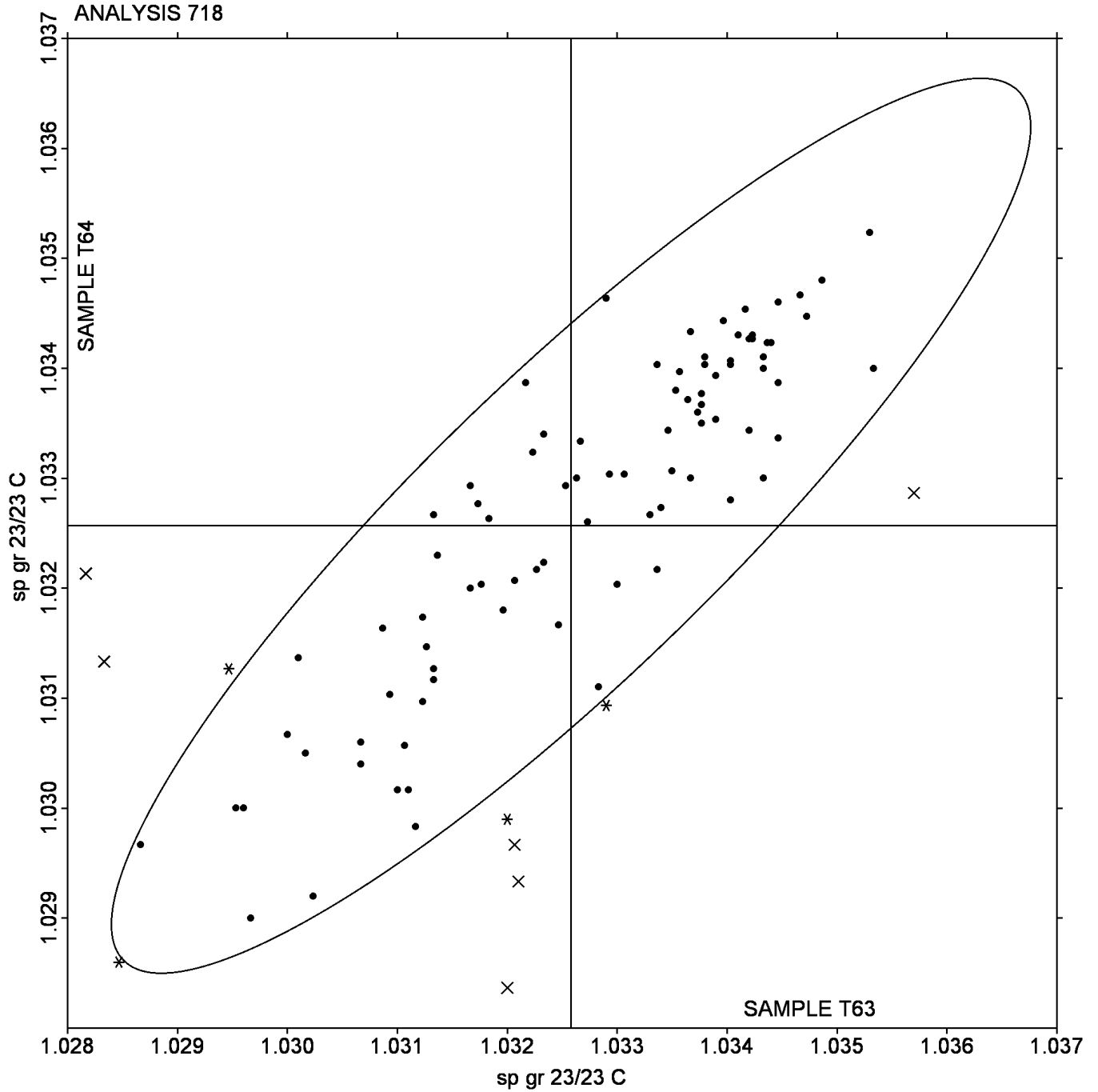
- 5FLCAS (X) - Inconsistent in testing between samples and inconsistent in testing within Sample T64.
- 8SUZ41 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample T64.
- ACQPAB (X) - Inconsistent in testing between samples and inconsistent in testing within Sample T64.
- AUFZF7 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample T64.
- ENXJY1 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample T63.
- ERKE3Z (X) - Inconsistent in testing between samples, data for Sample T64 are low.
- GXZZ3G (X) - Inconsistent in testing between samples.
- L5C6KA (X) - Inconsistent in testing between samples, data for Sample T64 are low.
- PXS3AC (X) - Inconsistent in testing between samples, data for Sample T64 are low.
- SLDS16 (X) - Data for both samples are low.
- TDVB1M (X) - Inconsistent in testing between samples, data for Sample T64 are low. Also inconsistent in testing within Sample T63.
- U4B1LT (X) - Inconsistent in testing between samples and inconsistent in testing within Sample T64.
- UG6UB9 (X) - Data for both samples are low.
- W3W765 (X) - Inconsistent in testing between samples, data for Sample T63 are low.
- Y9T9CU (X) - Data for both samples are low.

Instrument Code List as Reported by the Labs

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

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

Grand Mean Sample T63: 1.0326 sp gr 23/23 C Grand Mean Sample T64: 1.0326 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 L63			Sample L64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1JBDRW		15.155	0.023	0.24	18.015	0.167	0.97	XX
24DPAR	X	15.310	0.178	1.82	19.600	1.752	10.19	XX
2LXBN2		15.290	0.158	1.61	17.735	-0.113	-0.66	XX
2PE9MB		14.950	-0.182	-1.85	17.610	-0.238	-1.39	XX
33QE69		14.950	-0.182	-1.85	17.900	0.052	0.30	XX
42QLZP		15.130	-0.002	-0.02	17.800	-0.048	-0.28	XX
443U69	*	14.865	-0.267	-2.72	17.520	-0.328	-1.91	XX
4F11HF		15.075	-0.057	-0.58	17.660	-0.188	-1.10	XX
4MG9QP		15.195	0.063	0.64	17.910	0.062	0.36	XX
4YS7CZ		15.075	-0.057	-0.58	17.570	-0.278	-1.62	XX
6U4UQW		15.155	0.023	0.24	17.785	-0.063	-0.37	XX
72S9NY		15.204	0.072	0.74	18.045	0.196	1.14	XX
7BML9Y	X	15.130	-0.002	-0.02	20.075	2.227	12.96	XX
7TVL8U		15.250	0.118	1.21	17.850	0.002	0.01	XX
82LQB8		15.035	-0.097	-0.99	17.975	0.127	0.74	XX
8YVB2J		15.225	0.093	0.95	18.210	0.362	2.10	XX
AAT2MW		15.220	0.088	0.90	17.985	0.137	0.79	XX
CETTHS		15.230	0.098	1.00	17.740	-0.108	-0.63	XX
D8QMG1		15.168	0.036	0.37	17.990	0.142	0.82	XX
DMKKFK	X	15.233	0.101	1.03	18.521	0.672	3.91	XX
E7NQHK		15.150	0.018	0.19	17.780	-0.068	-0.40	XX
EERRWL		15.010	-0.122	-1.24	17.625	-0.223	-1.30	XX
FXEMML		15.160	0.028	0.29	17.945	0.097	0.56	XX
G55667		15.190	0.058	0.59	17.870	0.022	0.13	XX
G924W4		15.105	-0.027	-0.27	17.970	0.122	0.71	XX
G9DX5Z	*	15.145	0.013	0.13	17.415	-0.433	-2.52	XX
GBDU8U		14.965	-0.167	-1.70	18.010	0.162	0.94	XX
GDSQ2K		15.025	-0.107	-1.09	17.850	0.002	0.01	XX
GS1TZ8		15.070	-0.062	-0.63	17.855	0.007	0.04	XX
GSDWKE		15.034	-0.098	-1.00	18.052	0.204	1.18	XX
HBJUCZ		15.200	0.068	0.70	17.775	-0.073	-0.43	XX
HQPTL6		15.146	0.014	0.15	17.918	0.070	0.41	XX

**Plastics Interlaboratory Testing Program
Analysis 757**

Ash Content in Thermoplastics - Percent

WebCode	Data Flag	Sample L63			Sample L64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
JJZN8V		15.260	0.128	1.31	17.910	0.062	0.36	XX
JPH625		15.245	0.113	1.15	17.940	0.092	0.53	XX
KESZMC		14.995	-0.137	-1.40	17.660	-0.188	-1.10	XX
MRVMTU		15.120	-0.012	-0.12	18.075	0.227	1.32	XX
N12VHC		15.350	0.218	2.23	17.790	-0.058	-0.34	XX
NFN9UC		15.090	-0.042	-0.43	17.913	0.065	0.38	XX
NL1KAS		15.190	0.058	0.59	17.980	0.132	0.77	XX
NUAG66		15.095	-0.037	-0.38	17.625	-0.223	-1.30	XX
PASEGR	X	14.335	-0.797	-8.13	17.660	-0.188	-1.10	XX
PLHPR6		15.130	-0.002	-0.02	17.895	0.047	0.27	XX
PY2UHU		15.130	-0.002	-0.02	17.615	-0.233	-1.36	XX
QBXT89		15.284	0.152	1.55	17.931	0.083	0.48	XX
QU27Y4		15.110	-0.022	-0.22	17.620	-0.228	-1.33	XX
QXHP5N		15.165	0.033	0.34	18.140	0.292	1.70	XX
R4T6ZG		15.165	0.033	0.34	17.845	-0.003	-0.02	XX
RB83EN	X	14.320	-0.812	-8.28	17.830	-0.018	-0.11	XX
TBNA5A		15.060	-0.072	-0.73	17.850	0.002	0.01	XX
TEPVV8		15.185	0.053	0.54	17.710	-0.138	-0.81	XX
TSRRQU	X	6.645	-8.487	-86.55	5.635	-12.213	-71.07	XX
U1NLYD	X	0.150	-14.982	-152.79	0.180	-17.668	-102.81	XX
U7SYP4		15.060	-0.072	-0.73	18.015	0.167	0.97	XX
UNZ6QS		15.045	-0.087	-0.89	17.545	-0.303	-1.77	XX
UZXCYA		15.240	0.108	1.10	17.725	-0.123	-0.72	XX
W8EAN1		15.170	0.038	0.39	17.940	0.092	0.53	XX
XNF478		15.265	0.133	1.36	17.930	0.082	0.47	XX
XNZ36S		15.095	-0.037	-0.38	17.905	0.057	0.33	XX
YEXZWM		15.025	-0.107	-1.09	17.925	0.077	0.45	XX
YG1ZEL	X	14.990	-0.142	-1.45	18.350	0.502	2.92	XX
YKBQ51		15.140	0.008	0.08	18.115	0.267	1.55	XX

Ash Content in Thermoplastics - Percent

		Summary Statistics	
Grand Means	15.1318 Percent	17.8484	Percent
Stnd Dev Btwn Labs	0.0981 Percent	0.1718	Percent
Statistics based on 53 of 61 reporting participants			

Sample L63: PBT & **Sample L64:** PBT

Comments on assigned Data Flags for Test #757

24DPAR (X) - Inconsistent in testing between samples, data for Sample L64 are high.

7BML9Y (X) - Inconsistent in testing between samples, data for Sample L64 are high.

DMKKFK (X) - Inconsistent in testing between samples, data for Sample L64 are high.

PASEGR (X) - Data for sample L63 are low.

RB83EN (X) - Inconsistent in testing between samples, data for Sample L63 are low.

TSRRQU (X) - Data low for both samples.

U1NLYD (X) - Extreme data. Data appear to be off by a factor of 100.

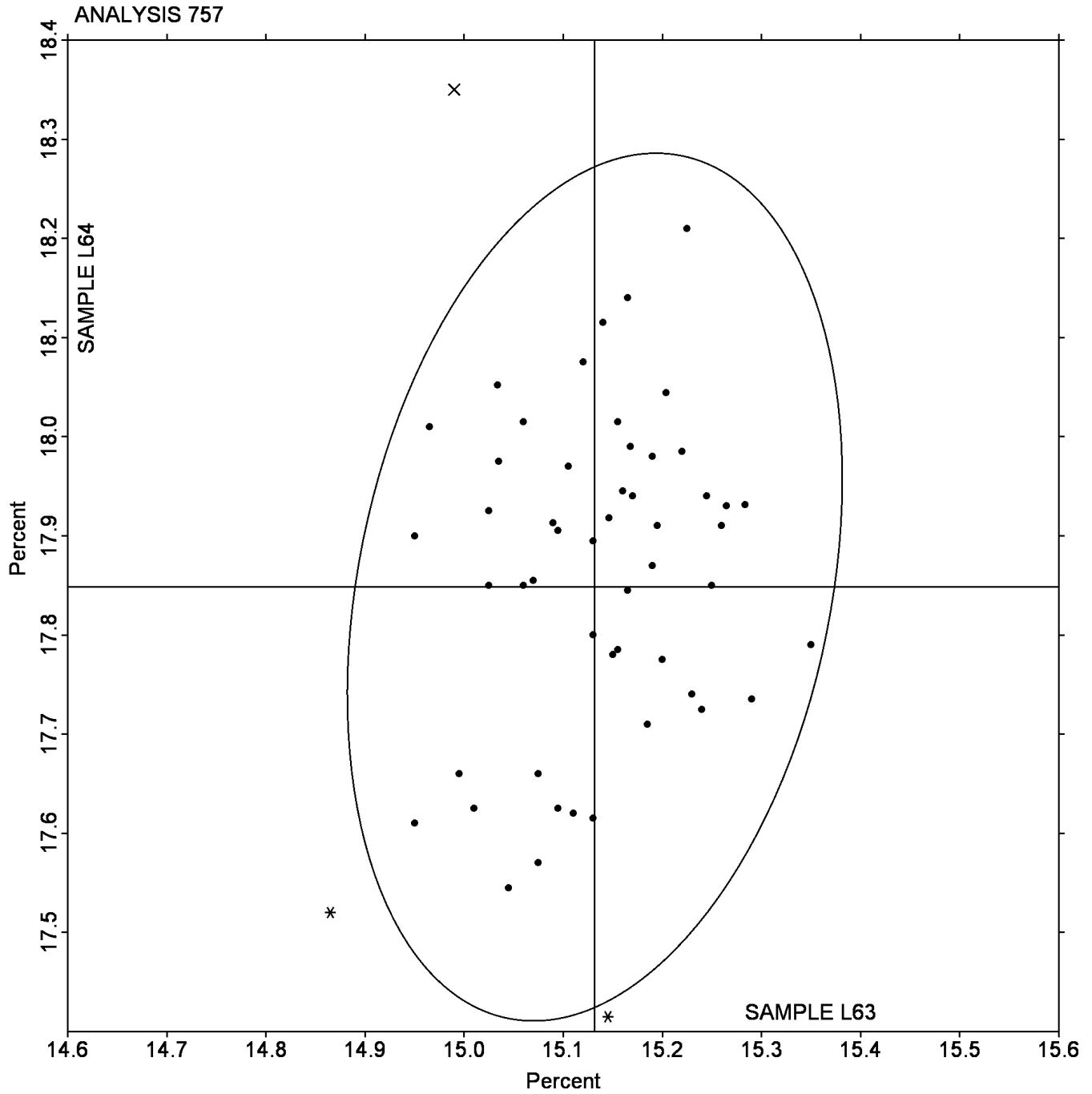
YG1ZEL (X) - Inconsistent in testing between samples, data for Sample L64 are high.

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 L63: 15.132 Percent Grand Mean Sample L64: 17.848 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 B63			Sample B64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1TZD1E		1,644	-262	-1.12	1,633	-281	-1.23	IN
2G4YWJ		1,981	75	0.32	1,985	72	0.31	XX
2KF19P		2,050	144	0.62	2,055	141	0.62	TY
2SA2G2		1,777	-129	-0.55	1,871	-43	-0.19	XX
3EJLDM		2,152	246	1.05	2,150	236	1.04	IN
4SZJH8		2,082	176	0.75	2,096	182	0.80	IN
4WNDW7		1,894	-12	-0.05	1,914	0	0.00	IN
7BKHG2		1,681	-224	-0.96	1,691	-223	-0.98	IN
AJHUT1		2,123	218	0.93	2,135	221	0.97	XX
B98Y1F		2,042	136	0.58	2,047	133	0.58	IN
F8RJDQ		2,073	168	0.72	2,043	130	0.57	TH
H8KD5B		2,077	171	0.73	2,081	168	0.74	IM
J8XAUP		1,631	-275	-1.18	1,677	-236	-1.04	UC
L1MQEB		1,457	-448	-1.92	1,449	-465	-2.04	IN
LTUQGG		2,085	179	0.77	2,109	195	0.86	TH
MC6Q7X		1,667	-238	-1.02	1,715	-198	-0.87	IM
QPGY5Z	*	2,075	169	0.72	1,965	51	0.22	SH
S8WBF1		1,542	-364	-1.56	1,535	-379	-1.67	IN
VKL332		1,470	-435	-1.86	1,502	-412	-1.81	IN
VX5RS6		2,147	241	1.03	2,112	198	0.87	IR
WSPE3X		1,949	43	0.18	1,949	36	0.16	XX
XW XVBL		1,907	2	0.01	1,935	21	0.09	XX
YF9ZEP		2,205	300	1.28	2,256	342	1.50	XX
ZPM56B		2,025	119	0.51	2,026	112	0.49	IN

Summary Statistics	
Grand Means	
1,905.6 psi	1,913.9 psi
Std Dev Btwn Labs	
233.8 psi	227.7 psi
Statistics based on 24 of 24 reporting participants	

Sample B63: LDPE & Sample B64: LDPE

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

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

(IR) - Instron with retrofit

(SH) - Shimadzu

(TH) - Thwing Albert

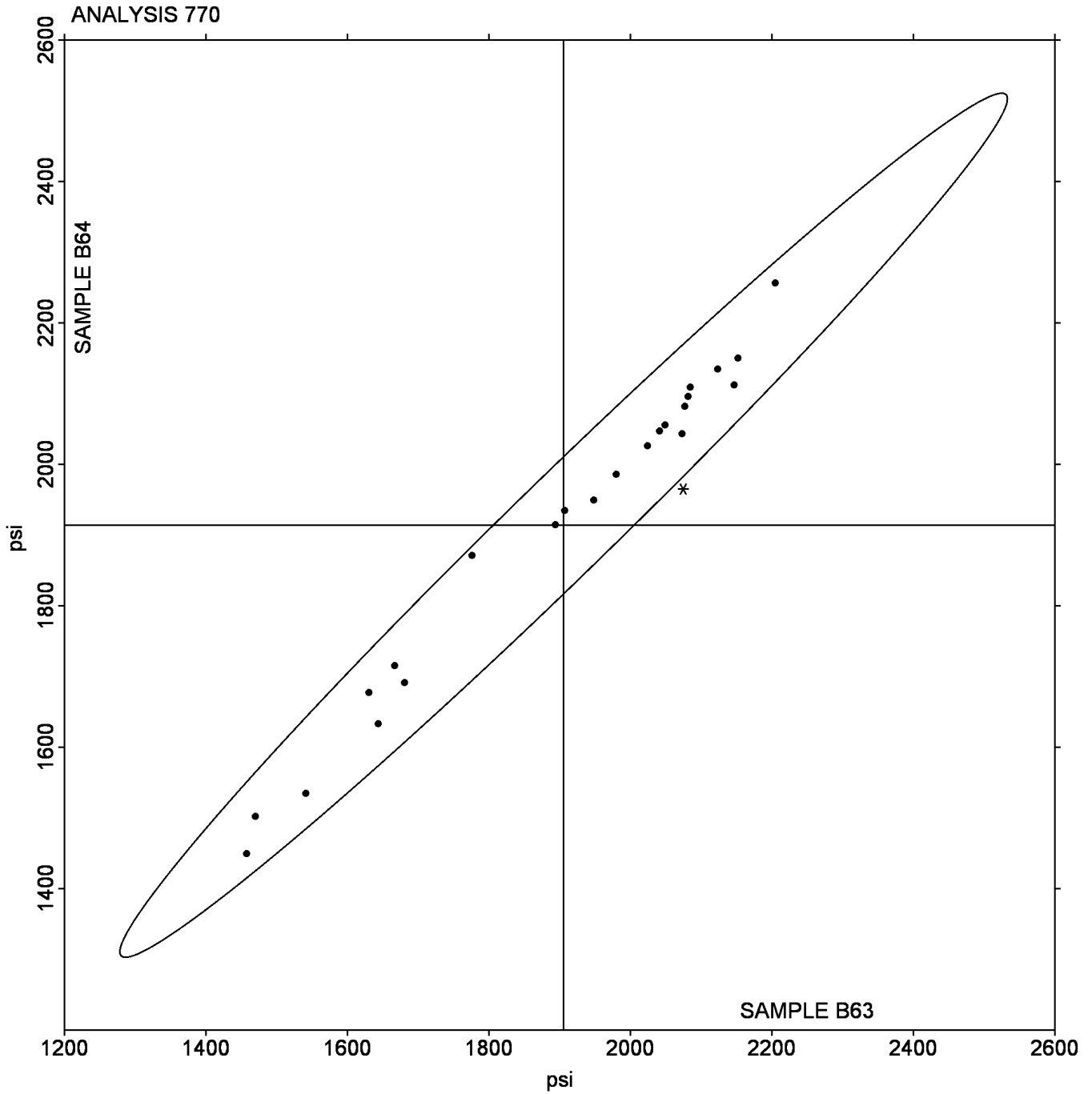
(TY) - Toyoseiki

(UC) - United

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B63: 1,905.59 psi Grand Mean Sample B64: 1,913.87 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 B63			Sample B64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
16BHN3		4,284	304	0.61	4,096	113	0.26	TH
17D6LU		2,873	-1,107	-2.23	3,273	-710	-1.65	IN
19FJZF		4,042	62	0.13	4,180	197	0.46	XX
2YDZBZ		4,472	492	0.99	4,580	597	1.39	HO
3A6YNN		4,128	148	0.30	4,236	253	0.59	TY
3RS717		4,535	555	1.12	4,477	494	1.15	IN
4HZWPR		2,730	-1,250	-2.51	2,955	-1,028	-2.40	UC
55KG1H		4,308	328	0.66	4,192	208	0.49	XX
6FPL64		4,153	174	0.35	3,978	-5	-0.01	IN
6S292G		4,213	233	0.47	4,275	292	0.68	IN
6ZDJAV		4,032	52	0.10	3,885	-98	-0.23	IR
839FV2	*	2,957	-1,023	-2.06	2,896	-1,087	-2.53	IN
8NJW3		3,648	-332	-0.67	3,677	-306	-0.71	IN
9V6BDM		4,046	66	0.13	3,979	-4	-0.01	IN
AZUXKV		4,238	258	0.52	4,133	150	0.35	TH
CD4CGX		4,212	232	0.47	4,144	161	0.37	IN
CKCQF9		3,951	-29	-0.06	4,207	224	0.52	XX
CTJWA4		4,264	284	0.57	4,213	230	0.54	IN
FB94D5		3,865	-114	-0.23	3,900	-83	-0.19	IM
H5V7C9		3,767	-213	-0.43	3,861	-123	-0.29	IN
JPKCB7		3,678	-302	-0.61	3,378	-606	-1.41	SH
N8V9WJ		4,293	313	0.63	4,469	485	1.13	UC
NLZW49		4,105	126	0.25	4,154	171	0.40	IN
PQ3N6D		4,892	912	1.83	4,421	438	1.02	XX
RCXZJ3		3,820	-159	-0.32	3,880	-103	-0.24	IN
VXHEYY		4,359	379	0.76	4,260	276	0.64	IM
WBWLB5		3,591	-389	-0.78	3,850	-134	-0.31	IN

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

Summary Statistics**Grand Means**

3,979.8 psi

3,983.2 psi

Std Dev Btwn Labs

497.3 psi

429.3 psi

Statistics based on 27 of 27 reporting participants**Sample B63:** LDPE & **Sample B64:** LDPE**Instrument Code List as Reported by the Labs**

(HO) - Hounsfield Instruments

(IM) - Instru-Met Instruments

(IN) - Instron

(IR) - Instron with retrofit

(SH) - Shimadzu

(TH) - Thwing Albert

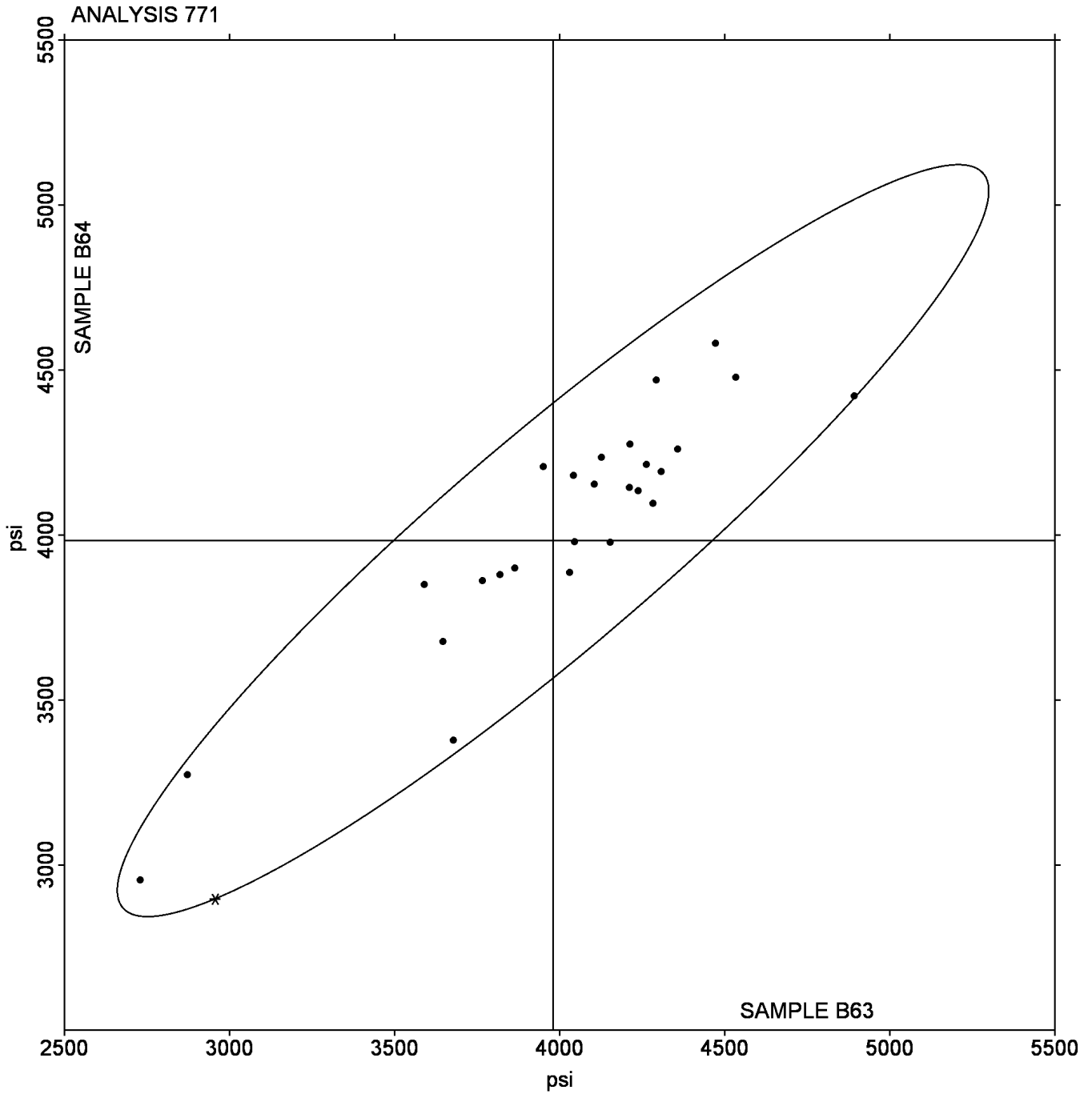
(TY) - Toyoseiki

(UC) - United

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B63: 3,979.77 psi Grand Mean Sample B64: 3,983.22 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 B63			Sample B64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
23G9N8		68.20	8.42	0.21	67.88	7.85	0.20	IN
4A2Q3G		23.63	-36.15	-0.91	30.77	-29.26	-0.74	IM
4AMT1N		103.86	44.08	1.11	106.56	46.53	1.18	IN
55ZFN7		87.20	27.42	0.69	89.30	29.27	0.74	IN
5B6EQ5		82.83	23.05	0.58	83.93	23.90	0.61	IN
6UKHZF		5.30	-54.48	-1.38	0.75	-59.28	-1.50	XX
GW65LZ		17.30	-42.48	-1.07	17.34	-42.69	-1.08	IN
HZXERC		8.85	-50.93	-1.29	8.41	-51.62	-1.31	IN
J4EU3Q		95.88	36.10	0.91	98.36	38.33	0.97	IN
KMEHM7		83.11	23.33	0.59	83.59	23.56	0.60	IM
NTDWA6		11.70	-48.08	-1.22	11.70	-48.33	-1.23	IN
P2XDYS	X	180.30	120.52	3.05	153.80	93.77	2.38	XX
QUJ9V5		9.30	-50.48	-1.28	9.05	-50.98	-1.29	IN
RHGRN4	*	106.70	46.92	1.19	97.10	37.07	0.94	XX
UKJ51T		71.26	11.48	0.29	71.46	11.43	0.29	IN
UTQKAT		103.24	43.46	1.10	101.80	41.77	1.06	XX
VD827R		89.39	29.61	0.75	89.07	29.04	0.74	XX
W86NFT		91.30	31.52	0.80	94.60	34.57	0.88	SH
Z6TAQ8		17.00	-42.78	-1.08	18.94	-41.09	-1.04	UC

Summary Statistics			
Grand Means	59.780	Percent	60.034
			Percent
Std Dev Btwn Labs	39.556	Percent	39.443
			Percent
Statistics based on 18 of 19 reporting participants			

Sample B63: LDPE & Sample B64: LDPE

Comments on assigned Data Flags for Test #772

P2XDYS (X) - High data for Sample B63.

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

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

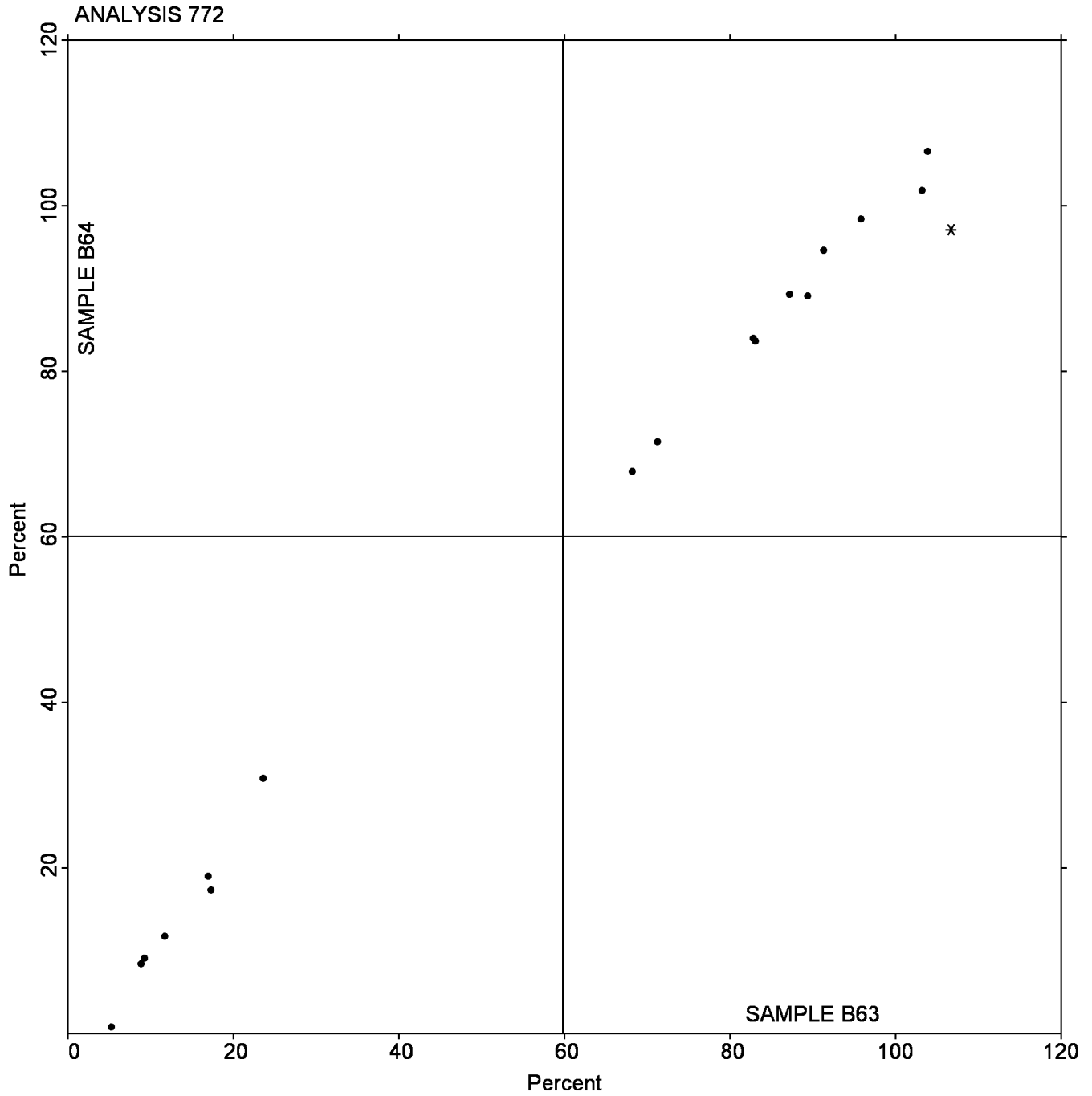
(SH) - Shimadzu

(UC) - United

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B63: 59.780 Percent Grand Mean Sample B64: 60.034 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 B63			Sample B64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
16GLQU		999.4	200.1	1.25	992.3	200.2	1.42	XX
1TH2J9		733.7	-65.6	-0.41	729.2	-62.9	-0.45	IN
3ZZRHG		727.7	-71.6	-0.45	745.7	-46.4	-0.33	XX
6JB9VA		1,046.5	247.2	1.55	1,018.1	226.0	1.60	IN
7FYQPE	*	1,106.9	307.7	1.93	965.5	173.4	1.23	XX
7TAQ3L		745.1	-54.2	-0.34	731.1	-61.0	-0.43	IN
9FTM11		795.5	-3.8	-0.02	785.7	-6.4	-0.05	XX
CEP12R		754.0	-45.3	-0.28	748.0	-44.1	-0.31	TH
D9SM6P		774.7	-24.6	-0.15	782.8	-9.3	-0.07	XX
DZEAGX		663.7	-135.6	-0.85	635.0	-157.1	-1.11	IN
FCMAK1	*	889.9	90.6	0.57	744.3	-47.8	-0.34	XX
H5R9XR		1,036.9	237.6	1.49	1,040.7	248.6	1.76	IN
HGWJ69		909.9	110.6	0.69	926.5	134.4	0.95	IN
JUCVRP		767.6	-31.7	-0.20	810.1	18.0	0.13	XX
LAJ5U9		728.0	-71.3	-0.45	786.0	-6.1	-0.04	XX
LD5F17		854.5	55.2	0.35	844.3	52.1	0.37	IM
LV91M2		619.0	-180.3	-1.13	630.5	-161.6	-1.15	IN
NTVMC4		904.4	105.1	0.66	923.7	131.6	0.93	IN
PN61U3		487.7	-311.6	-1.95	568.2	-223.9	-1.59	IN
RQH YAJ		504.5	-294.8	-1.85	500.7	-291.5	-2.07	XX
T6ZBK8		686.8	-112.5	-0.70	668.7	-123.4	-0.87	TH
TUN21P		812.5	13.2	0.08	846.8	54.7	0.39	IM
UVH2L7		645.3	-154.0	-0.96	661.8	-130.3	-0.92	HO
W6XAYR		987.3	188.0	1.18	953.4	161.3	1.14	SH
WF1KC4		694.0	-105.3	-0.66	692.7	-99.5	-0.70	IR
WVVRDQ		905.9	106.6	0.67	864.0	71.9	0.51	XX

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

Summary Statistics

Grand Means

799.28 Percent

792.15 Percent

Std Dev Btwn Labs

159.65 Percent

141.11 Percent

Statistics based on 26 of 26 reporting participants

Sample B63: LDPE & **Sample B64:** LDPE

Instrument Code List as Reported by the Labs

(HO) - Hounsfield Instruments

(IM) - Instru-Met Instruments

(IN) - Instron

(IR) - Instron with retrofit

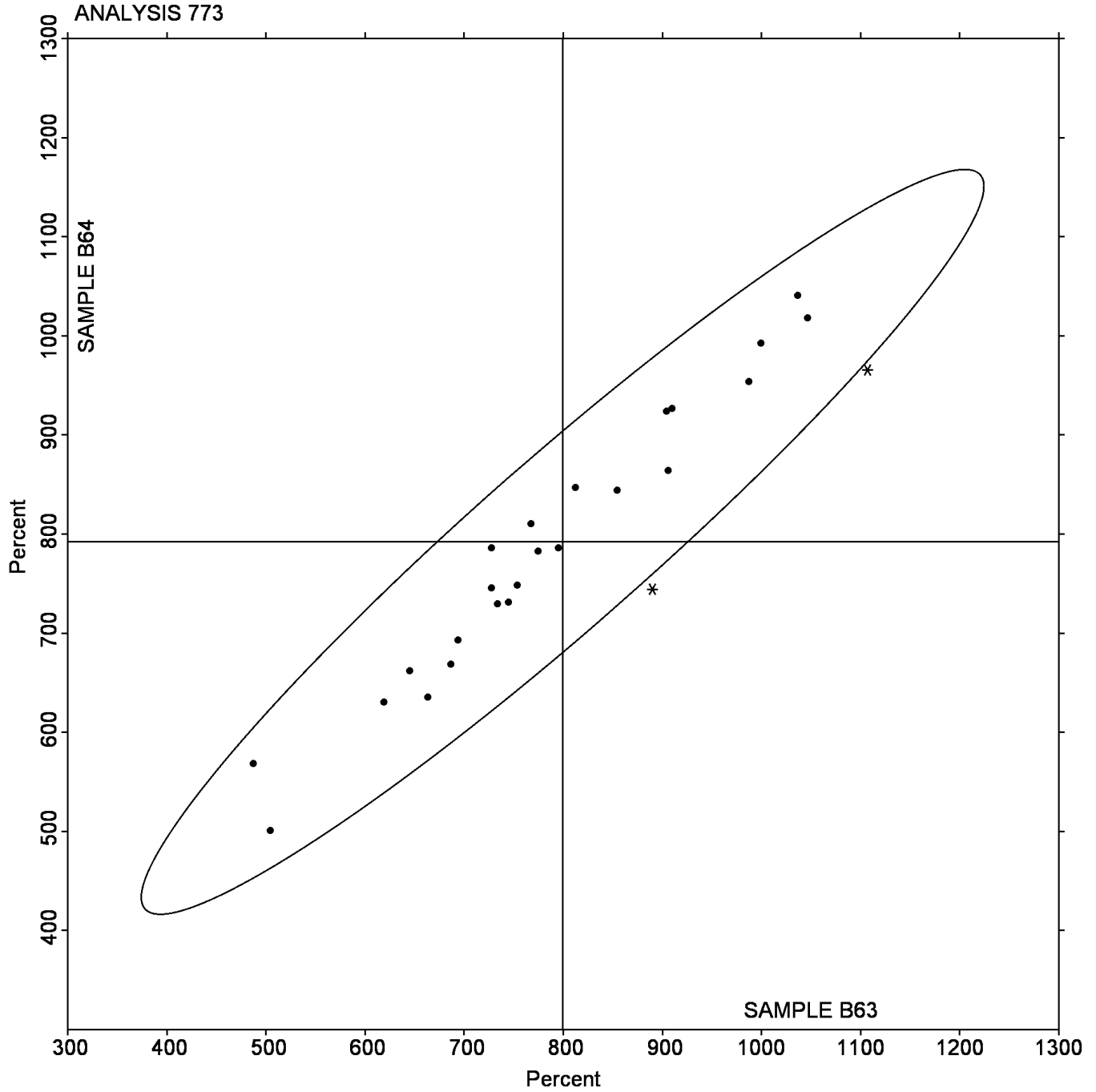
(SH) - Shimadzu

(TH) - Thwing Albert

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B63: 799.28 Percent Grand Mean Sample B64: 792.15 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 B63			Sample B64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2MS5DJ		3.9220	0.0002	0.00	3.8740	-0.0364	-0.70	XX
2N5PBV		3.8200	-0.1018	-1.59	3.8100	-0.1004	-1.92	XX
3EEABN		3.7796	-0.1422	-2.22	3.7993	-0.1111	-2.13	XX
5VJYKN		4.0000	0.0782	1.22	3.9500	0.0396	0.76	XX
634634		3.9400	0.0182	0.28	3.9370	0.0266	0.51	XX
77GEY7		3.8760	-0.0458	-0.71	3.8860	-0.0244	-0.47	XX
7J66TJ		3.9570	0.0352	0.55	3.9060	-0.0044	-0.08	XX
8LMMVG		3.8600	-0.0618	-0.96	3.8900	-0.0204	-0.39	XX
8VLZUB	X	4.2300	0.3082	4.81	4.0800	0.1696	3.25	XX
95TS7C	X	3.7008	-0.2210	-3.45	3.6220	-0.2883	-5.52	XX
AA5ETZ		3.9400	0.0182	0.28	3.9200	0.0096	0.18	XX
BEBP2E		3.9804	0.0586	0.92	3.9135	0.0031	0.06	XX
BJLY1A		3.9300	0.0082	0.13	3.9500	0.0396	0.76	XX
BJQQ6T		3.9500	0.0282	0.44	3.9200	0.0096	0.18	XX
E8W4GD		3.9640	0.0422	0.66	3.9810	0.0706	1.35	XX
EVTMZB		3.9803	0.0585	0.91	3.9134	0.0030	0.06	XX
FLAAUJ	X	4.2400	0.3182	4.97	4.0200	0.1096	2.10	XX
G4SW8L		3.8600	-0.0618	-0.96	3.8950	-0.0154	-0.29	XX
JTQRJY		3.9646	0.0428	0.67	3.9528	0.0424	0.81	XX
M9LY47		3.9250	0.0032	0.05	3.9600	0.0496	0.95	XX
NS6QX5		3.9850	0.0632	0.99	3.9550	0.0446	0.86	XX
PABGLZ		3.8450	-0.0768	-1.20	3.8950	-0.0154	-0.29	XX
RHYV3G		3.8790	-0.0428	-0.67	3.8670	-0.0434	-0.83	XX
UMTY9Z		3.9750	0.0532	0.83	3.9950	0.0846	1.62	XX
UQX7EF		3.8000	-0.1218	-1.90	3.8000	-0.1104	-2.11	XX
VE28PN		4.0190	0.0972	1.52	3.9210	0.0106	0.20	XX
VMUMBF		3.9100	-0.0118	-0.18	3.8720	-0.0384	-0.73	XX
YSBHMQ		3.9843	0.0625	0.98	3.9764	0.0660	1.27	XX
Z3YRAB		3.9200	-0.0018	-0.03	3.9300	0.0196	0.38	XX

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

Summary Statistics	
Grand Means	
3.92177 mils	3.91036 mils
Std Dev Btwn Labs	
0.06405 mils	0.05219 mils
Statistics based on 26 of 29 reporting participants	

Sample B63: LDPE & **Sample B64:** LDPE

Comments on assigned Data Flags for Test #774

8VLZUB (X) - Data for both samples are high. Also inconsistent in testing within sample B63.

95TS7C (X) - Data for both samples are low.

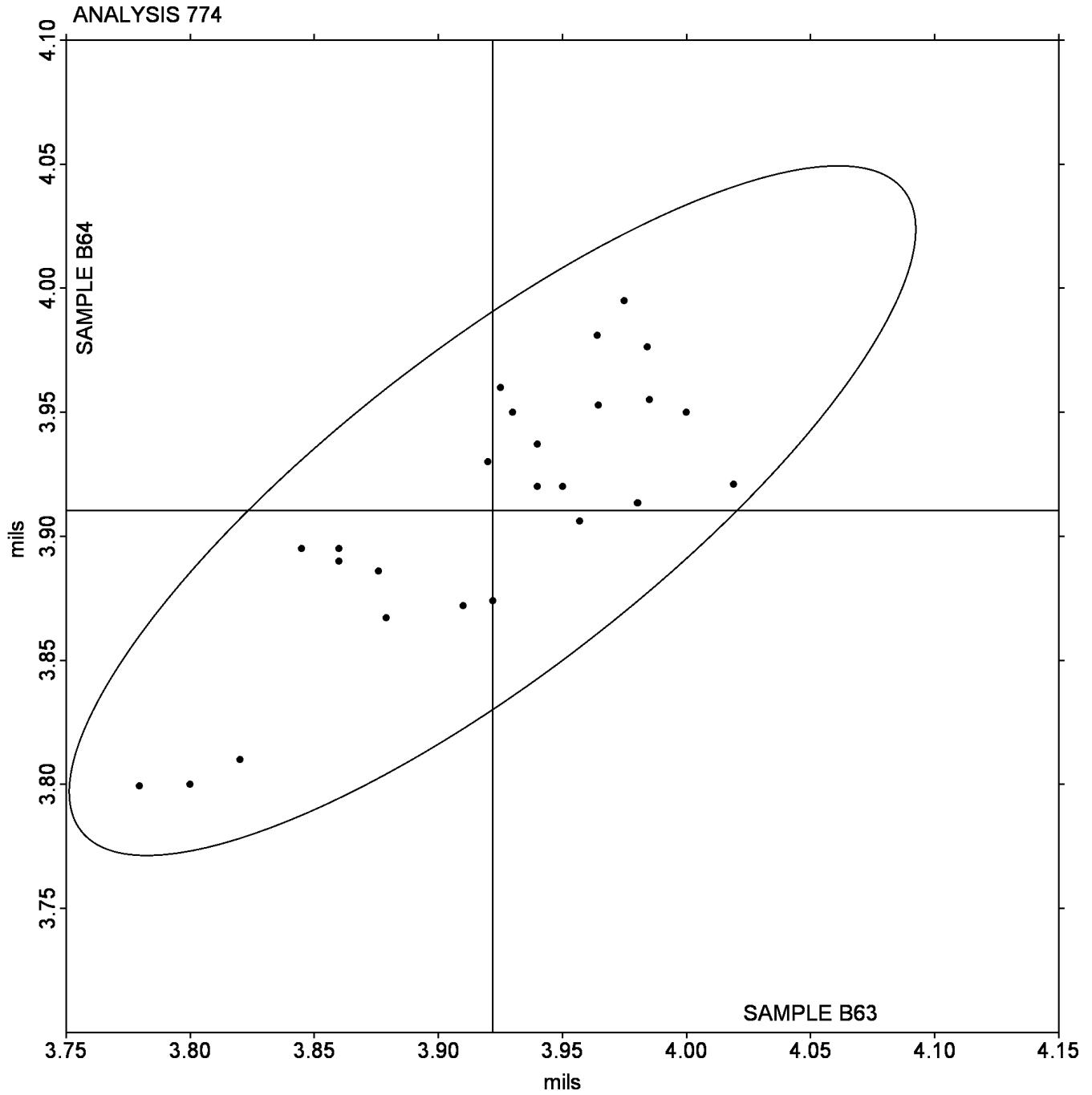
FLAAUJ (X) - High data for sample B63. Also inconsistent in testing within sample B63.

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 B63: 3.9218 mils Grand Mean Sample B64: 3.9104 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 B63			Sample B64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1Q4WD8		28,637	-1,982	-0.56	29,123	-1,856	-0.58	IN
41DYFP		31,633	1,014	0.28	31,723	744	0.23	IM
5AHJ2H		23,217	-7,402	-2.08	25,948	-5,030	-1.57	IN
7KTJKV		35,117	4,498	1.26	34,512	3,533	1.10	TH
9UKEGH		29,439	-1,180	-0.33	30,363	-616	-0.19	IN
ALXDUB		29,340	-1,279	-0.36	29,718	-1,260	-0.39	XX
E46WPB		30,450	-169	-0.05	30,020	-959	-0.30	IN
EKHA69		29,671	-948	-0.27	30,092	-887	-0.28	IN
NPD9B5		29,445	-1,174	-0.33	29,543	-1,436	-0.45	UC
NZ3FMM		30,121	-498	-0.14	29,494	-1,485	-0.46	IN
PBBK52		37,686	7,067	1.98	38,825	7,846	2.45	IN
ZJPG1J		32,674	2,055	0.58	32,385	1,407	0.44	IM

Summary Statistics

Grand Means

30,619.2 psi

30,978.8 psi

Std Dev Btwn Labs

3,564.0 psi

3,208.8 psi

Statistics based on 12 of 12 reporting participants

Sample B63: LDPE & **Sample B64:** LDPE

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

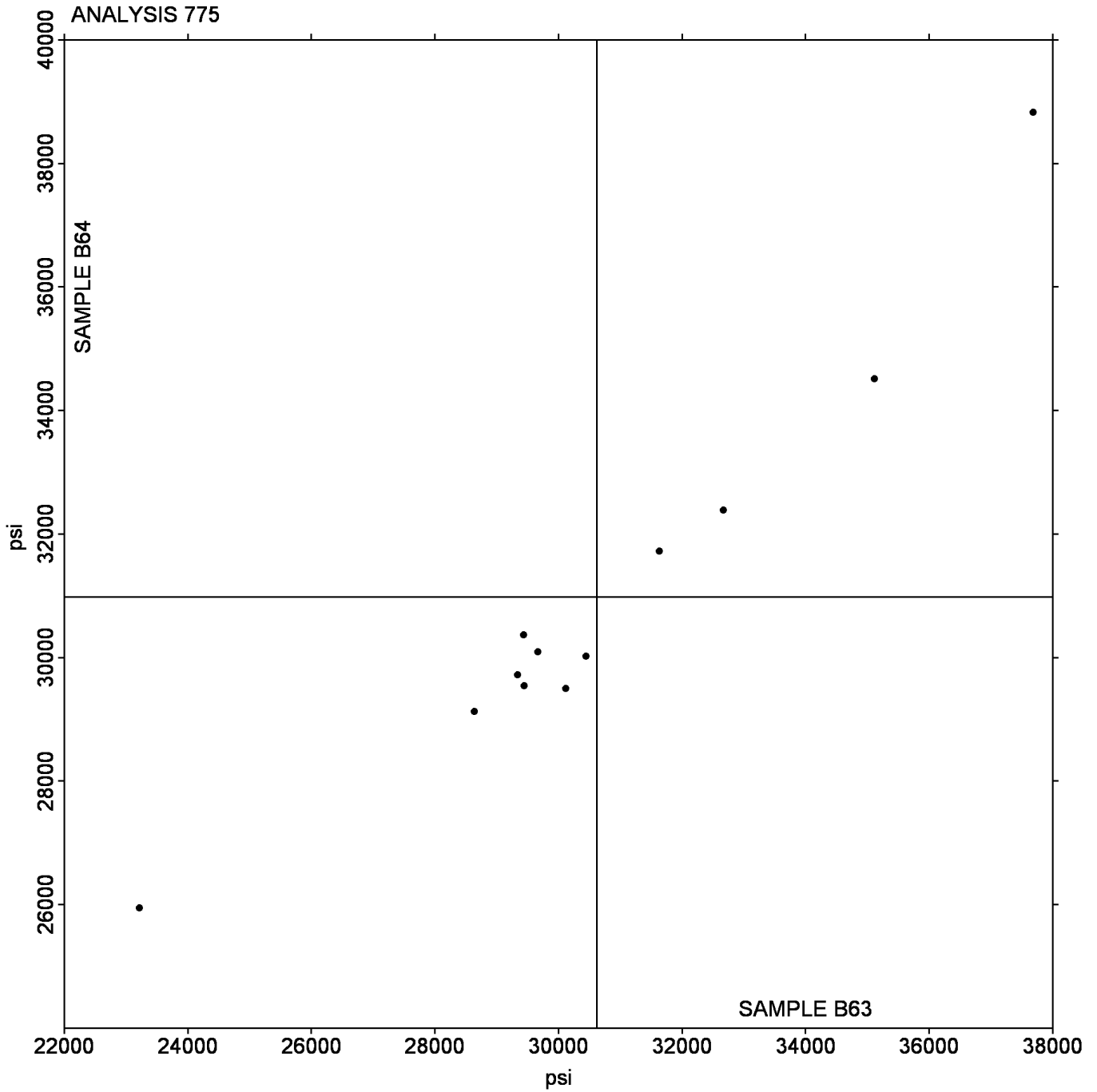
(TH) - Thwing Albert

(UC) - United

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B63: 30,619.18 psi Grand Mean Sample B64: 30,978.79 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 B63			Sample B64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
11AY6R		25,377	-794	-0.54	26,273	-68	-0.04	IN
4US1S2		26,637	465	0.32	26,604	262	0.15	IM
C2KZ39		27,249	1,078	0.74	28,388	2,047	1.18	IN
CDHBHD		25,941	-231	-0.16	25,633	-709	-0.41	IN
CPZJAV		25,358	-813	-0.56	24,820	-1,522	-0.88	IN
DE1X7V		25,013	-1,159	-0.79	25,391	-951	-0.55	IN
J24XQ8		29,346	3,174	2.18	29,830	3,488	2.02	IN
LN8VHY		24,719	-1,453	-1.00	24,455	-1,887	-1.09	XX
LTEYE7		24,843	-1,329	-0.91	24,790	-1,552	-0.90	UC
YK1WUK		27,233	1,062	0.73	27,234	892	0.52	IM

Summary Statistics

Grand Means

26,171.5 psi

26,341.9 psi

Std Dev Btwn Labs

1,458.5 psi

1,729.3 psi

Statistics based on 10 of 10 reporting participants

Sample B63: LDPE & Sample B64: LDPE

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

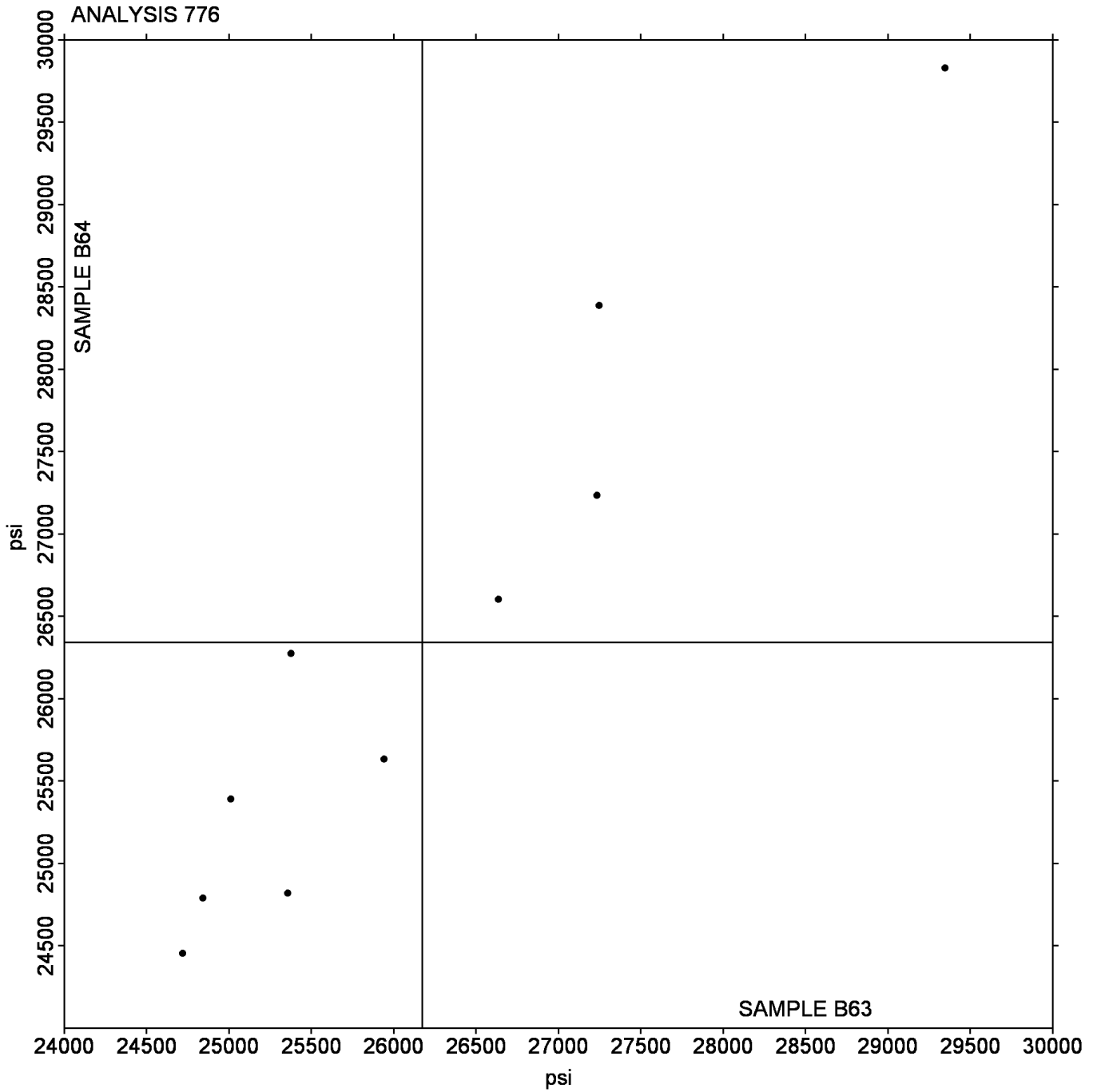
(IN) - Instron

(UC) - United

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B63: 26,171.54 psi Grand Mean Sample B64: 26,341.89 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 P63			Sample P64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1852XG		0.1674	-0.0057	-0.17	0.1566	-0.0090	-0.28	TH
1Z2E9W		0.1630	-0.0101	-0.29	0.1484	-0.0172	-0.53	TH
5GH7YJ		0.1313	-0.0418	-1.21	0.1263	-0.0393	-1.21	CH
7PCMJD		0.2040	0.0309	0.89	0.1816	0.0160	0.49	TM
81AZZJ		0.1754	0.0023	0.07	0.1796	0.0140	0.43	IS
87JTC1	X	0.4020	0.2289	6.61	0.4120	0.2464	7.58	KA
8AAMRF		0.1716	-0.0015	-0.04	0.1654	-0.0002	-0.01	TH
8KQTY5		0.1380	-0.0351	-1.01	0.1412	-0.0244	-0.75	IG
DFPGPU		0.1680	-0.0051	-0.15	0.1544	-0.0112	-0.34	TN
FP1TBQ		0.1800	0.0069	0.20	0.1840	0.0184	0.57	XX
FX85C8		0.1562	-0.0169	-0.49	0.1616	-0.0040	-0.12	MS
H9GVDS		0.1266	-0.0465	-1.34	0.1122	-0.0534	-1.64	IP
LPCG15		0.1525	-0.0206	-0.59	0.1406	-0.0250	-0.77	IG
Q6ZE47		0.1430	-0.0301	-0.87	0.1194	-0.0462	-1.42	UT
SQ1LLS		0.1640	-0.0091	-0.26	0.1876	0.0220	0.68	TN
T691AT		0.1680	-0.0051	-0.15	0.1820	0.0164	0.51	SA
UJT6C1	*	0.2504	0.0773	2.23	0.2070	0.0414	1.27	UT
UM7ZNF		0.2580	0.0849	2.45	0.2502	0.0846	2.60	IG
W6RAB4		0.1548	-0.0183	-0.53	0.1416	-0.0240	-0.74	TH
WL3EP6		0.1838	0.0107	0.31	0.1850	0.0194	0.60	DY
XD74MS		0.2066	0.0335	0.97	0.1868	0.0212	0.65	TN

Summary Statistics			
Grand Means	0.17313	COF	0.16557
			COF
Std Dev Btwn Labs	0.03463	COF	0.03252
			COF
Statistics based on 20 of 21 reporting participants			

Sample P63: LDPE & Sample P64: LDPE

Comments on assigned Data Flags for Test #780

87JTC1 (X) - Data for both samples are high. Also inconsistent in testing within both samples.

Plastics Interlaboratory Testing Program
Analysis 780
Coefficient of Static Friction

Instrument Code List as Reported by the Labs

(CH) - ChemInstruments AR-1000

(IG) - Instron

(IS) - Instron Model 5565

(MS) - MTS Sintech

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

(TN) - TMI #32-06

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

(DY) - Dynisco Model D1055

(IP) - Instron 4400 Series

(KA) - Kayeness Inc.

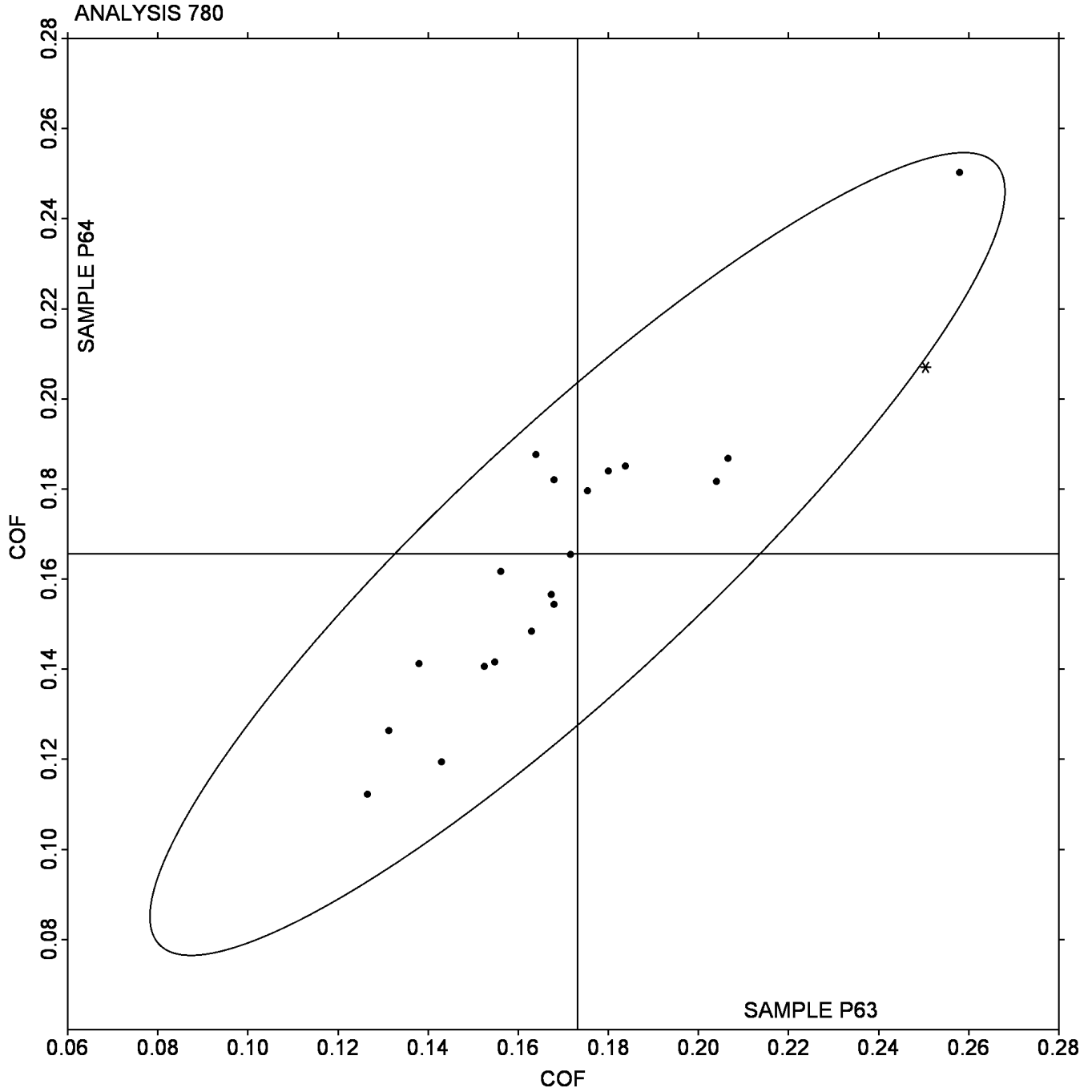
(SA) - Shimadzu Autograph AG 2000 A

(TM) - TMI Slip and Friction Tester Model 98

(UT) - United Testing Systems (model not specified)

Plastics Interlaboratory Testing Program
Analysis 780
Coefficient of Static Friction

Grand Mean Sample P63: 0.17313 COF Grand Mean Sample P64: 0.16557 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 P63			Sample P64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
33D2YL		0.1200	-0.0086	-0.28	0.1176	-0.0050	-0.18	TH
3E53NN		0.1610	0.0324	1.07	0.1450	0.0224	0.81	TN
3VXFXU		0.0882	-0.0404	-1.34	0.0818	-0.0408	-1.47	UT
4H7SSM		0.1518	0.0232	0.77	0.1397	0.0172	0.62	IG
6V724F		0.1020	-0.0266	-0.88	0.1100	-0.0126	-0.45	SA
7AG551		0.1150	-0.0136	-0.45	0.1074	-0.0152	-0.55	TN
9FC68T		0.1392	0.0106	0.35	0.1436	0.0210	0.76	DY
B7TPKB		0.1121	-0.0165	-0.55	0.1033	-0.0193	-0.69	CH
BKZSUC		0.1270	-0.0016	-0.05	0.1162	-0.0064	-0.23	MS
DX33R4		0.1136	-0.0150	-0.50	0.0978	-0.0248	-0.89	TH
HBTA7T		0.0704	-0.0582	-1.93	0.0738	-0.0488	-1.75	IP
JL9NC3		0.1694	0.0408	1.35	0.1426	0.0200	0.72	TM
LMCAXK		0.1440	0.0154	0.51	0.1540	0.0314	1.13	XX
LTWELE		0.1128	-0.0158	-0.52	0.1158	-0.0068	-0.24	TH
M5U1XA		0.1150	-0.0136	-0.45	0.1058	-0.0168	-0.60	TH
NZSBRB		0.1032	-0.0254	-0.84	0.0968	-0.0258	-0.93	IG
UCWX2E		0.1954	0.0668	2.21	0.1904	0.0678	2.44	IG
UFUUG1		0.1652	0.0366	1.21	0.1528	0.0302	1.09	UT
VY3LPV		0.1206	-0.0080	-0.26	0.1274	0.0048	0.17	IS
ZA1BHK		0.1460	0.0174	0.58	0.1296	0.0070	0.25	TN

Summary Statistics			
Grand Means	0.12859	COF	0.12257
			COF
Std Dev Btwn Labs	0.03020	COF	0.02780
			COF
Statistics based on 20 of 20 reporting participants			

Sample P63: LDPE & Sample P64: LDPE

Plastics Interlaboratory Testing Program
Analysis 781
Coefficient of Kinetic Friction

Instrument Code List as Reported by the Labs

(CH) - ChemInstruments AR-1000

(IG) - Instron

(IS) - Instron Model 5565

(SA) - Shimadzu Autograph AG 2000 A

(TM) - TMI Slip and Friction Tester Model 98

(UT) - United Testing Systems (model not specified)

(DY) - Dynisco Model D1055

(IP) - Instron 4400 Series

(MS) - MTS Sintech

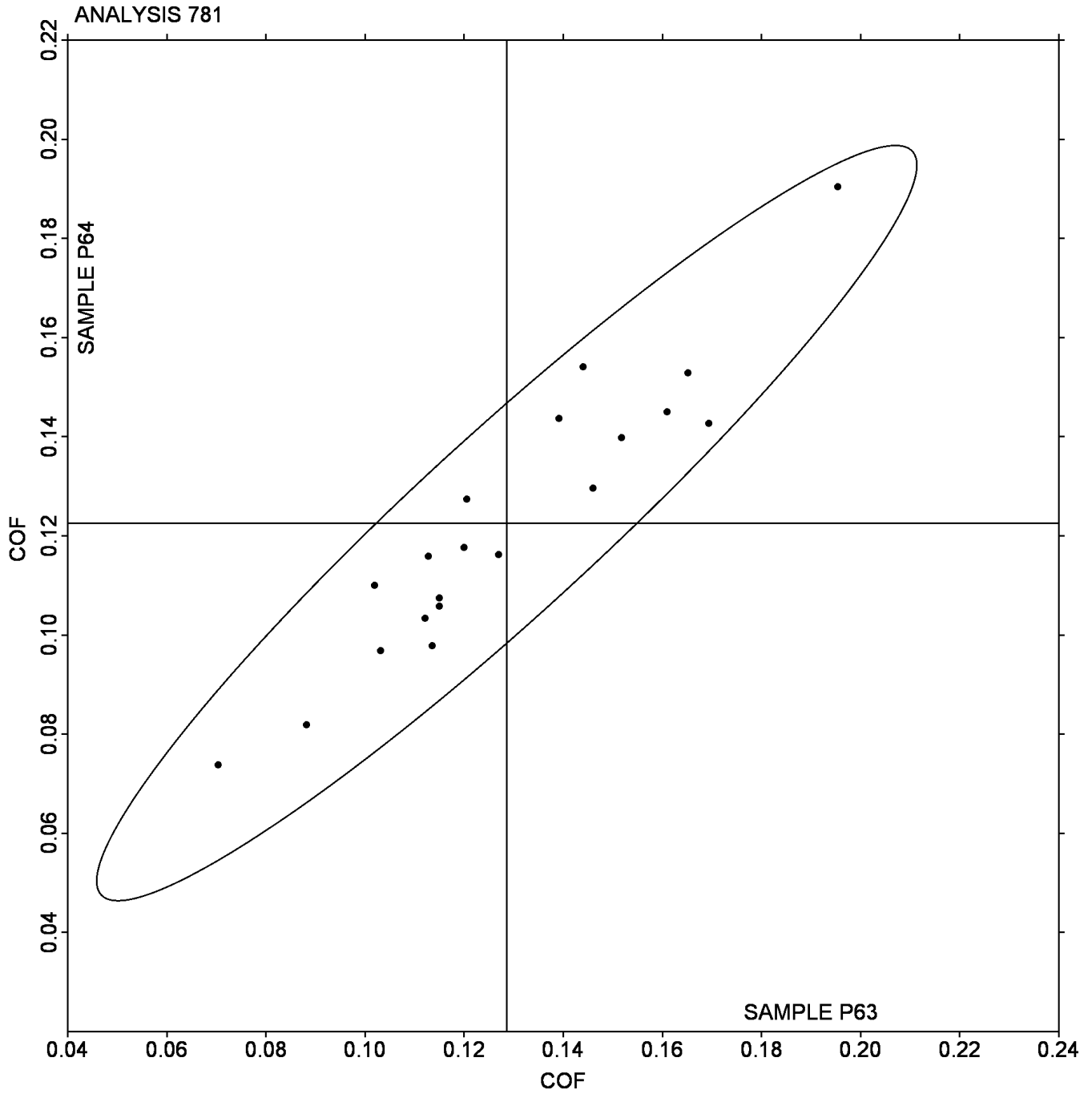
(TH) - Thwing Albert Friction/Peel Tester Model 225-1

(TN) - TMI #32-06

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

Plastics Interlaboratory Testing Program
Analysis 781
Coefficient of Kinetic Friction

Grand Mean Sample P63: 0.12859 COF Grand Mean Sample P64: 0.12257 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 Q63			Sample Q64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
18J6D9		155.6	-33.3	-1.71	144.6	-42.3	-1.53	EM
1ZYD8Q		200.5	11.6	0.59	208.9	22.0	0.80	AL
7KL27J		158.1	-30.9	-1.59	159.8	-27.1	-0.98	XX
CNZKZ9		205.4	16.4	0.84	188.9	2.0	0.07	TF
EDNNUP		196.0	7.1	0.36	201.6	14.7	0.53	TE
LHNXM3		191.8	2.9	0.15	215.8	28.9	1.05	TE
LJCY1K		214.0	25.1	1.29	226.2	39.3	1.42	TE
MNDUPZ		185.4	-3.5	-0.18	186.1	-0.8	-0.03	TA
T4958P		180.6	-8.3	-0.43	185.7	-1.2	-0.04	TE
W3YZ4C		202.1	13.2	0.68	151.3	-35.6	-1.29	TM

Summary Statistics

Grand Means

188.95 grams-force

186.89 grams-force

Std Dev Btwn Labs

19.46 grams-force

27.65 grams-force

Statistics based on 10 of 10 reporting participants

Sample Q63: LDPE & Sample Q64: LDPE

Instrument Code List as Reported by the Labs

(AL) - Adamel Lhomargy ED20

(EM) - Elmendorf Tear Tester

(TA) - Thwing-Albert

(TE) - Thwing-Albert Pro Tear

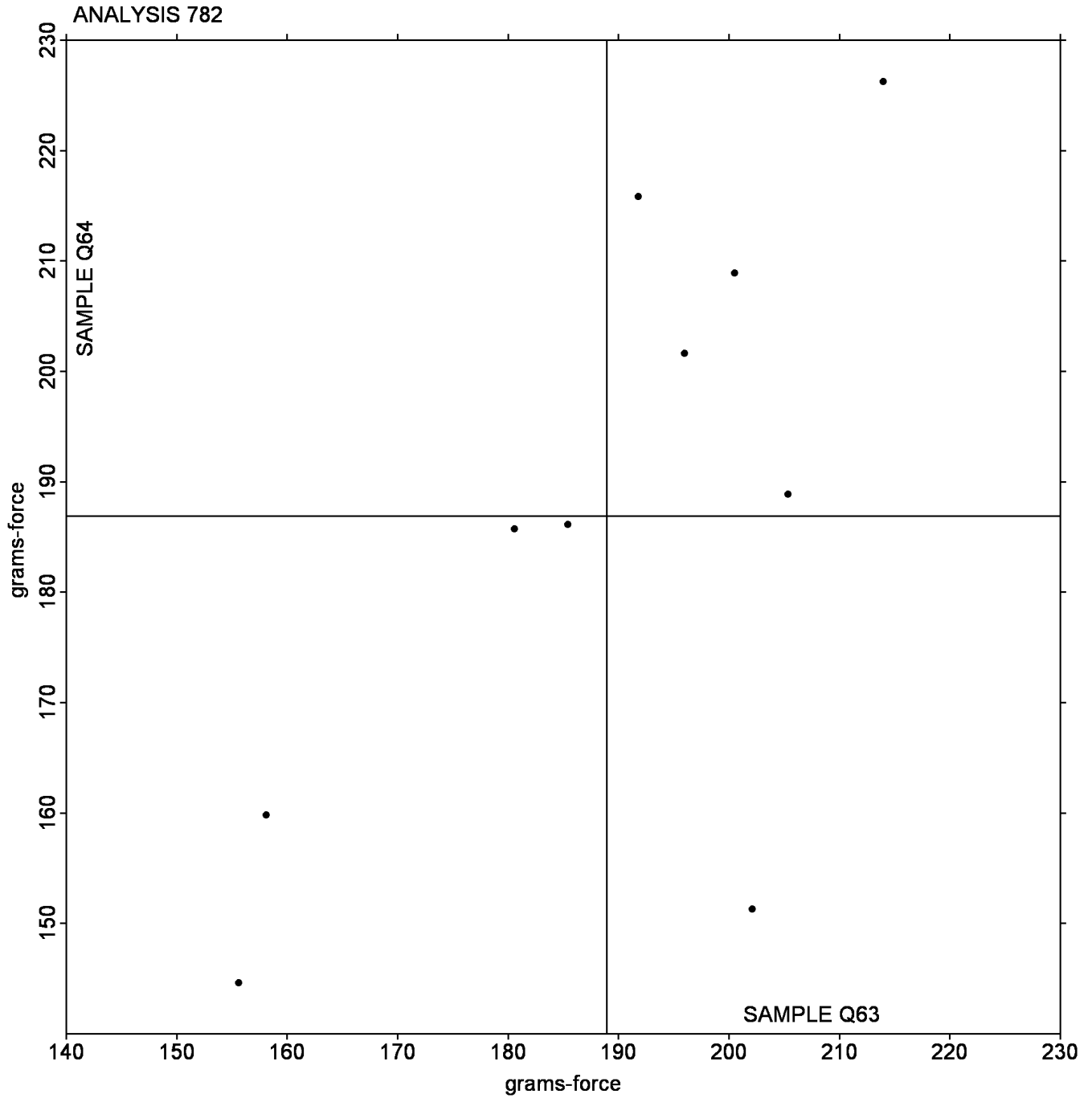
(TF) - Thwing-Albert Model 60-1500

(TM) - TMI No. 83-1100

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

Plastics Interlaboratory Testing Program
Analysis 782
Tear Resistance of Films

Grand Mean Sample Q63: 188.95 grams-force Grand Mean Sample Q64: 186.89 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 D63			Sample D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
59H8GM		25.875	-1.543	-0.54	24.300	-0.884	-0.43	BJ
5G85FG		25.500	-1.918	-0.68	23.000	-2.184	-1.06	BJ
71E5SE		30.174	2.756	0.97	28.179	2.995	1.45	MA
8662KJ		27.238	-0.180	-0.06	25.575	0.391	0.19	BJ
8DU52S		29.250	1.832	0.65	25.588	0.404	0.20	BJ
BW78BU		28.863	1.445	0.51	26.075	0.891	0.43	BJ
CVWGH6		27.150	-0.268	-0.09	25.350	0.166	0.08	BJ
HTVAX8		29.200	1.782	0.63	25.263	0.079	0.04	BJ
JNBFG9		27.025	-0.393	-0.14	27.288	2.104	1.02	BJ
K5FHKZ		30.188	2.770	0.98	25.000	-0.184	-0.09	BJ
N17DDG		26.613	-0.805	-0.28	22.075	-3.109	-1.51	MA
N425A2		25.848	-1.570	-0.55	25.473	0.289	0.14	BT
PNNH2V		22.750	-4.668	-1.65	20.800	-4.384	-2.12	BH
QETNPX		27.313	-0.105	-0.04	28.213	3.029	1.47	BJ
R234UT		28.388	0.970	0.34	27.488	2.304	1.12	BJ
SYFSS2		30.538	3.120	1.10	23.575	-1.609	-0.78	BG
TQBCQN		29.500	2.082	0.73	27.088	1.904	0.92	BJ
UVY4MN		26.525	-0.893	-0.31	26.036	0.853	0.41	XX
WLQ2PU		30.125	2.707	0.95	28.500	3.316	1.61	BJ
XKCSBN		31.338	3.920	1.38	23.888	-1.296	-0.63	BJ
XUKEC1		27.513	0.095	0.03	24.450	-0.734	-0.36	BH
Z112L2	*	18.588	-8.830	-3.11	23.563	-1.621	-0.79	HC
ZR4YZL		25.116	-2.302	-0.81	22.459	-2.725	-1.32	HL

Summary Statistics			
Grand Means	27.4179	Percent	25.1835
			Percent
Std Dev Btwn Labs	2.8356	Percent	2.0646
			Percent
Statistics based on 23 of 23 reporting participants			

Sample D63: LDPE & Sample D64: LDPE

Notes for Analysis 785

Please note that the Samples used for this test were not uniform and therefore data may be more varied. No labs were flagged for this test, but labs should still use caution when interpreting the data.

Plastics Interlaboratory Testing Program
Analysis 785
Percent Haze of Film

Instrument Code List as Reported by the Labs

(BG) - BYK-Gardner/Pacific Scientific

(BJ) - BYK-Gardner Haze-Gard Plus

(HC) - Hunterlab ColorQuest

(MA) - Macbeth 7000A

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

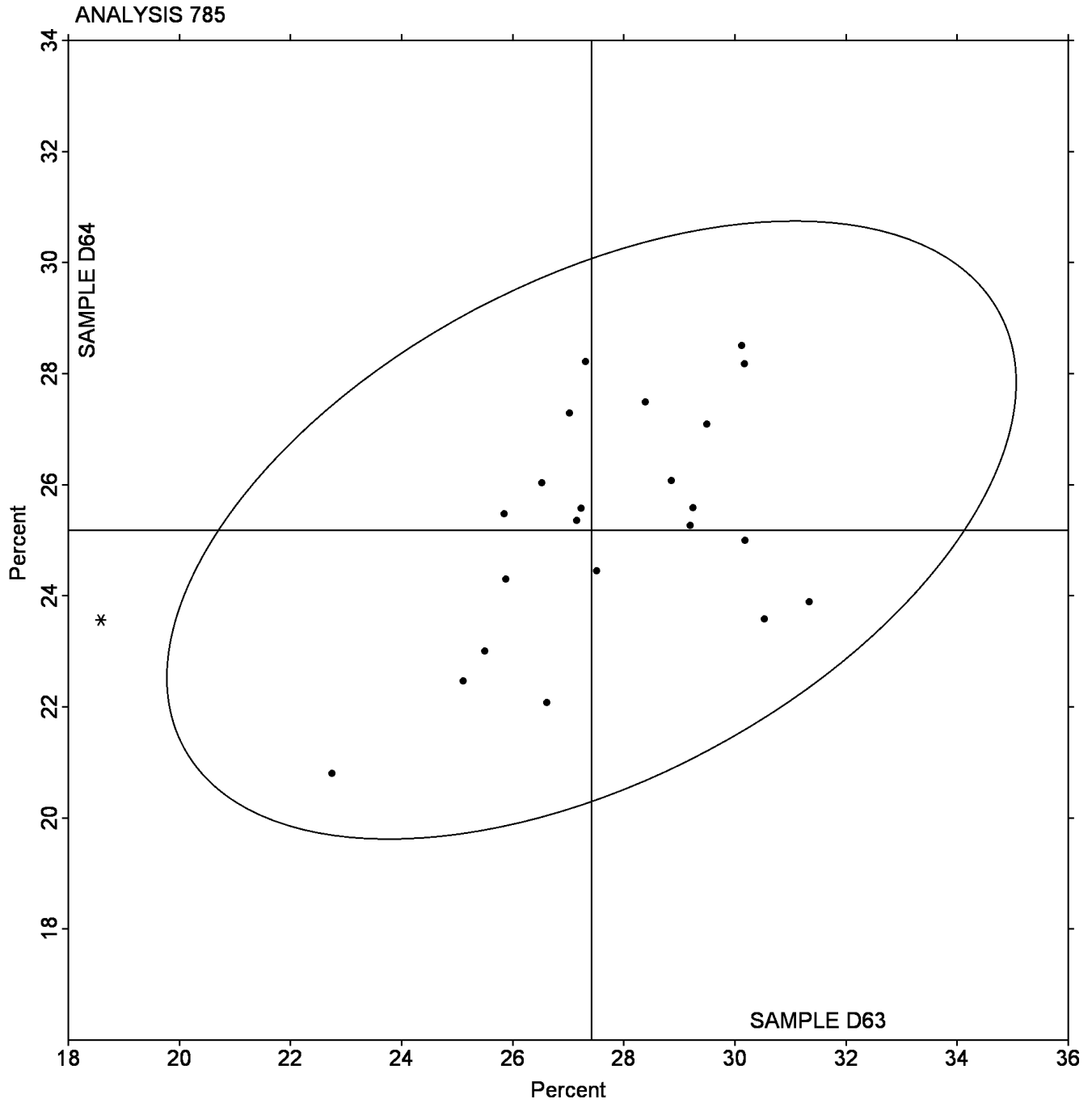
(BT) - BYK Gardner TCS Plus Spectrophotometer

(HL) - Hunterlab Ultrascan XE

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

Plastics Interlaboratory Testing Program
Analysis 785
Percent Haze of Film

Grand Mean Sample D63: 27.418 Percent Grand Mean Sample D64: 25.184 Percent



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

**Plastics Interlaboratory Testing Program
Analysis 786**

Total Luminous transmittance of film

WebCode	Data Flag	Sample D63			Sample D64			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
67X3UF		94.05	1.28	0.90	94.21	1.34	0.94	BJ
8196AB		94.68	1.90	1.34	94.66	1.79	1.25	BJ
9PT7WP		91.04	-1.73	-1.22	91.26	-1.61	-1.13	BH
BZZZ3T		92.79	0.02	0.01	92.70	-0.18	-0.12	MA
JABSA1		90.33	-2.44	-1.72	90.48	-2.40	-1.68	HL
JHND6		91.34	-1.43	-1.01	91.36	-1.51	-1.06	BJ
JKK8B7		90.23	-2.55	-1.79	90.28	-2.60	-1.82	BJ
L7TNAF		94.98	2.21	1.56	95.49	2.61	1.83	HC
MX3DAK	*	91.89	-0.88	-0.62	92.73	-0.15	-0.11	BJ
R5SE2Y		93.14	0.37	0.26	93.03	0.15	0.10	BJ
S64ETS		92.85	0.08	0.06	92.84	-0.04	-0.03	BJ
S7PCMX		93.63	0.85	0.60	93.78	0.90	0.63	BT
SVRZ6S		92.93	0.15	0.11	92.98	0.10	0.07	BJ
VY7RFR		90.72	-2.05	-1.44	90.70	-2.17	-1.52	MA
WY9CRK		92.78	0.00	0.00	92.86	-0.01	-0.01	BJ
X7JMR4		93.25	0.48	0.34	93.24	0.36	0.25	XX
XAKHHJ		94.19	1.42	1.00	94.13	1.25	0.87	BJ
XXR9DX		92.86	0.09	0.06	93.03	0.15	0.10	BG
YWRTE5		93.93	1.15	0.81	93.94	1.06	0.74	BJ
ZZSVES		93.85	1.08	0.76	93.88	1.00	0.70	BJ

Summary Statistics			
Grand Means	92.771	Percent	92.877
Std Dev Btwn Labs	1.419	Percent	1.426
Statistics based on 20 of 20 reporting participants			

Sample D63: LDPE & Sample D64: LDPE

Total Luminous transmittance of film

Instrument Code List as Reported by the Labs

(BG) - BYK-Gardner/Pacific Scientific

(BJ) - BYK-Gardner Haze-Gard Plus

(HC) - Hunterlab ColorQuest

(MA) - Macbeth 7000A

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

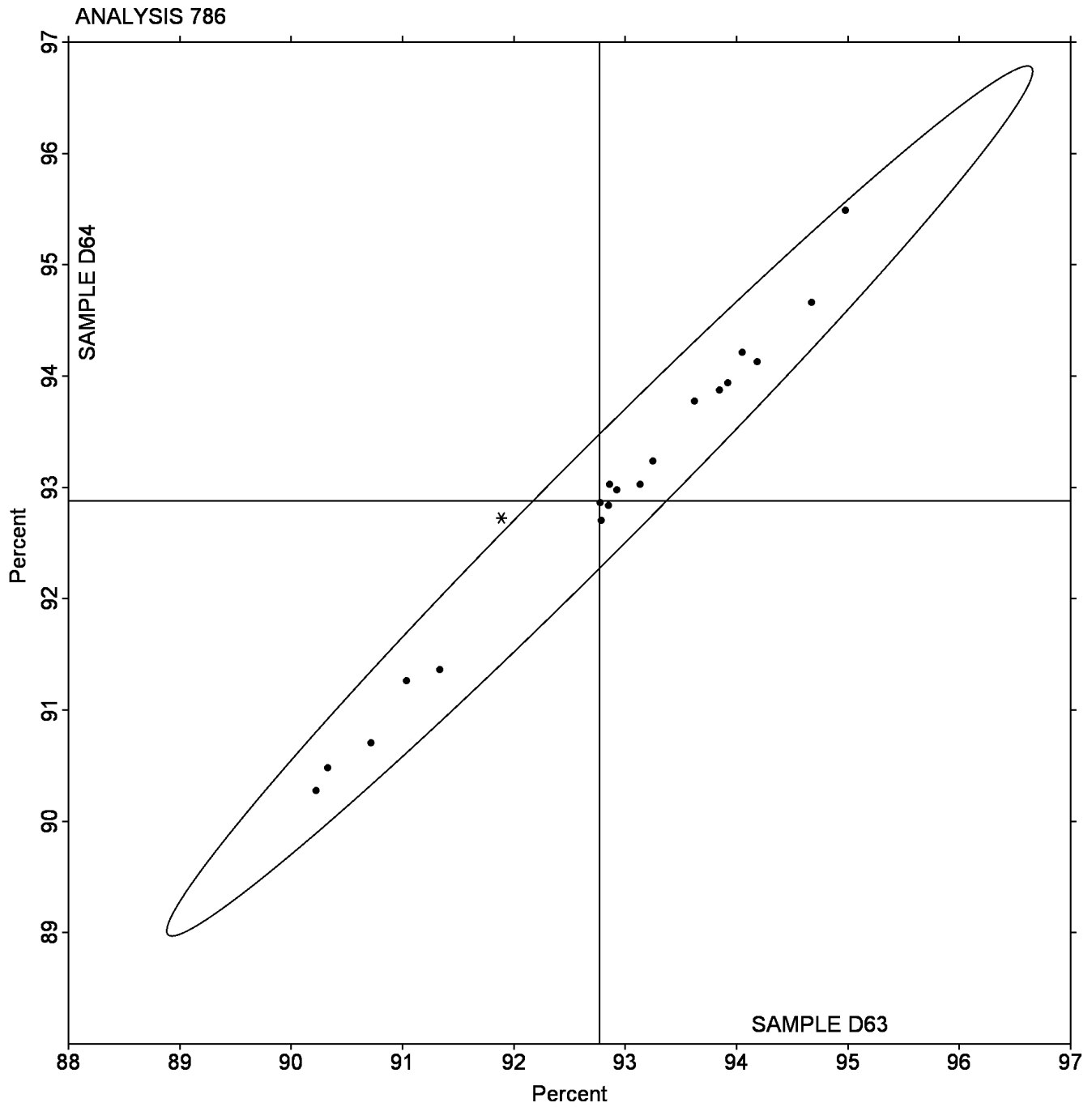
(BT) - BYK Gardner TCS Plus Spectrophotometer

(HL) - Hunterlab Ultrascan XE

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

Plastics Interlaboratory Testing Program
Analysis 786
Total Luminous transmittance of film

Grand Mean Sample D63: 92.771 Percent Grand Mean Sample D64: 92.877 Percent



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