

Plastics Interlaboratory Testing Program

Web Summary Report #62, 2nd 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.

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Key for Web Summary Report (Page 1 of 2)

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

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

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

Common Problems Highlighted in Footnotes

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

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

Results Summary for Web Summary Report #62

Plastics Interlaboratory Testing Program

Analysis 704 - Tensile Stress at Yield

Material: ABS/PC	Sample F61	9,086.13	psi	1.98% COV
	Sample F62	9,308.56	psi	1.81% COV

Analysis 705 - Tensile Stress at Break

Material: ABS/PC	Sample F61	7,092.99	psi	3.07% COV
	Sample F62	8,413.46	psi	7.93% COV

Analysis 706 - Percent Elongation at Yield

Material: ABS/PC	Sample F61	3.7558	Percent	3.66% COV
	Sample F62	4.5066	Percent	2.62% COV

Analysis 708 - Modulus of Elasticity

Material: ABS/PC	Sample F61	397.21	ksi	5.94% COV
	Sample F62	386.41	ksi	6.67% COV

Analysis 730 - Tensile Stress at Yield, ISO Method

Material: ABS/PC	Sample C61	64.961	MPa	1.78% COV
	Sample C62	63.393	MPa	1.87% COV

Analysis 731 - Tensile Stress at Break, ISO Method

Material: ABS/PC	Sample C61	54.462	MPa	6.02% COV
	Sample C62	52.147	MPa	4.24% COV

Analysis 732 - Strain at Yield, ISO Method

Material: ABS/PC	Sample C61	4.2181	Percent	3.96% COV
	Sample C62	4.4120	Percent	3.40% COV

Analysis 734 - Modulus of Elasticity, ISO Method

Material: ABS/PC	Sample C61	2,731.45	MPa	4.87% COV
	Sample C62	2,673.86	MPa	4.41% COV

Analysis 720 - Flexural Modulus

Material: ABS/PC	Sample J61	409.93	ksi	5.97% COV
	Sample J62	400.73	ksi	6.25% COV

Analysis 721 - Flexural Stress at 5% Strain

Material: ABS/PC	Sample J61	14,018.56	psi	3.98% COV
	Sample J62	14,372.13	psi	4.56% COV

Analysis 722 - Flexural Stress at Yield

Material: ABS/PC	Sample J61	14,002.72	psi	3.48% COV
	Sample J62	14,430.69	psi	3.99% COV

Analysis 736 - Flexural Modulus

Material: ABS/PC	Sample K61	2,702.45	MPa	3.60% COV
	Sample K62	2,766.52	MPa	4.35% COV

Analysis 737 - Flexural Stress at 3.5% Strain

Material: ABS/PC	Sample K61	85.641	MPa	2.24% COV
	Sample K62	88.712	MPa	2.93% COV

Results Summary for Web Summary Report #62

Plastics Interlaboratory Testing Program

Analysis 738 - Flexural Stress at Yield

Material: ABS/PC	Sample K61	95.261	MPa	1.50% COV
	Sample K62	96.815	MPa	1.79% COV

Analysis 790 - Notched Izod Impact

Material: ABS/PC	Sample S61	10.182	ft.lbf/in	9.38% COV
	Sample S62	13.224	ft.lbf/in	7.13% COV

Analysis 792 - Notched Charpy Impact

Material: HIPS	Sample M61	22.714	kJ/m ²	5.74% COV
	Sample M62	22.144	kJ/m ²	4.68% COV

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

Material: ABS/PC	Sample E61	76.351	Degrees C	1.23% COV
	Sample E62	88.903	Degrees C	1.21% COV

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

Material: PP	Sample G61	85.555	Degrees C	2.84% COV
	Sample G62	96.130	Degrees C	3.15% COV

Analysis 712 - Temperature of Deflection (1.80 MPa)

Material: ABS/PC	Sample N61	78.322	Degrees C	1.99% COV
	Sample N62	89.586	Degrees C	1.41% COV

Analysis 715 - Vicat Temperature (Rate A)

Material: ABS/PC	Sample H61	100.76	Degrees C	1.06% COV
	Sample H62	113.44	Degrees C	0.780% COV

Analysis 716 - Vicat Temperature (Rate B)

Material: ABS/PC	Sample R61	103.09	Degrees C	1.02% COV
	Sample R62	115.68	Degrees C	0.937% COV

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

Material: PP	Sample X61	11.953	grams/10 mins	6.66% COV
	Sample X62	13.403	grams/10 mins	4.25% COV

Analysis 718 - Specific Gravity

Material: ABS/PC	Sample T61	1.1831	sp gr 23/23 C	0.171% COV
	Sample T62	1.1907	sp gr 23/23 C	0.165% COV

Analysis 757 - Ash Content

Material: PP	Sample L61	31.412	Percent	0.693% COV
	Sample L62	39.814	Percent	0.431% COV

Analysis 770 - Tensile Stress at Yield, Films

Material: LDPE	Sample B61	2,064.50	psi	13.9% COV
	Sample B62	2,124.23	psi	14.5% COV

Analysis 771 - Tensile Stress at Break, Films

Material: LDPE	Sample B61	3,719.80	psi	8.84% COV
	Sample B62	3,742.07	psi	9.76% COV

Results Summary for Web Summary Report #62

Plastics Interlaboratory Testing Program

Analysis 772 - Elongation at Yield, Films

Material: LDPE	Sample B61	73.472	Percent	68.0% COV
	Sample B62	74.459	Percent	66.4% COV

Analysis 773 - Elongation at Break, Films

Material: LDPE	Sample B61	689.95	Percent	23.1% COV
	Sample B62	670.16	Percent	24.0% COV

Analysis 774 - Thickness of Film Specimens

Material: LDPE	Sample B61	2.8671	mils	3.94% COV
	Sample B62	2.8307	mils	2.62% COV

Analysis 775 - Secant Modulus at 1% Strain

Material: LDPE	Sample B61	30,912.21	psi	18.0% COV
	Sample B62	31,599.33	psi	18.8% COV

Analysis 776 - Secant Modulus at 2% Strain

Material: LDPE	Sample B61	26,404.01	psi	16.5% COV
	Sample B62	26,985.28	psi	17.4% COV

Analysis 780 - Static Friction

Material: LDPE	Sample P61	0.19212	COF	26.4% COV
	Sample P62	0.19782	COF	27.8% COV

Analysis 781 - Kinetic Friction

Material: LDPE	Sample P61	0.12609	COF	20.6% COV
	Sample P62	0.12961	COF	20.6% COV

Analysis 782 - Tear Resistance of Film

Material: LDPE	Sample Q61	157.88	grams-force	33.6% COV
	Sample Q62	172.89	grams-force	29.8% COV

Analysis 785 - Percent Haze

Material: LDPE	Sample D61	19.311	Percent	6.17% COV
	Sample D62	18.524	Percent	5.42% COV

Analysis 786 - Total Transmittance

Material: LDPE	Sample D61	92.966	Percent	1.29% COV
	Sample D62	92.935	Percent	1.27% COV

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

WebCode	Data Flag	Sample F61			Sample F62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1YZ9G6		9,002.0	-84.1	-0.47	9,264.0	-44.6	-0.26
33WZ6N		9,223.0	136.9	0.76	9,427.0	118.4	0.70
3X1FLR		8,799.6	-286.5	-1.59	9,105.4	-203.2	-1.20
3XK6XJ		8,979.9	-106.2	-0.59	9,194.9	-113.7	-0.67
3Y3AXQ		8,842.6	-243.5	-1.35	9,223.4	-85.2	-0.50
4S8BQ1		8,981.4	-104.7	-0.58	9,219.4	-89.2	-0.53
4ZXTWB		9,186.6	100.5	0.56	9,417.2	108.6	0.64
5EVY2S		8,977.6	-108.5	-0.60	9,166.8	-141.8	-0.84
6H91GW		8,959.8	-126.3	-0.70	9,217.8	-90.8	-0.54
7EFY9L	X	8,416,000.0	8,406,913.9	46,771.77	8,736,000.0	8,726,691.4	51,741.16
7JP7DJ	*	9,050.4	-35.7	-0.20	9,436.2	127.7	0.76
89QSG5		9,061.8	-24.3	-0.14	9,251.4	-57.2	-0.34
8AT91N		9,394.0	307.9	1.71	9,552.8	244.2	1.45
8BDRQG		9,109.3	23.2	0.13	9,312.4	3.8	0.02
B95BDT	X	8,876.6	-209.6	-1.17	9,365.1	56.5	0.34
CHRSJ8	*	9,531.0	444.9	2.48	9,769.2	460.6	2.73
CQ5LTJ		9,004.4	-81.7	-0.45	9,190.8	-117.8	-0.70
D14UX7		9,218.7	132.5	0.74	9,465.2	156.7	0.93
DCDBQC		9,001.8	-84.3	-0.47	9,123.2	-185.4	-1.10
DGN5BN		9,281.9	195.8	1.09	9,515.2	206.6	1.23
DQ4Y2X		8,885.1	-201.0	-1.12	9,181.0	-127.6	-0.76
FH1RET		9,482.0	395.9	2.20	9,678.0	369.4	2.19
FNKMSB		8,826.5	-259.6	-1.44	9,052.2	-256.4	-1.52
GKL3PJ		9,124.6	38.5	0.21	9,310.4	1.8	0.01
HS5KXC		9,237.0	150.9	0.84	9,501.4	192.8	1.14
J9HJ7E		9,079.2	-6.9	-0.04	9,353.8	45.2	0.27
JKQW5W		8,963.4	-122.7	-0.68	9,137.5	-171.1	-1.01
JM5KXW		9,174.9	88.8	0.49	9,377.8	69.3	0.41
K8V2JE		9,234.2	148.1	0.82	9,447.4	138.8	0.82
KB4Z58		8,867.7	-218.4	-1.22	9,154.9	-153.7	-0.91
KLPRSD		9,345.0	258.9	1.44	9,548.4	239.8	1.42
L5483B		9,493.4	407.3	2.27	9,655.0	346.4	2.05

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

WebCode	Data Flag	Sample F61			Sample F62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
L8EHFF	X	9,509.6	423.5	2.36	9,143.0	-165.6	-0.98
LCKH1S		9,022.4	-63.7	-0.35	9,183.4	-125.2	-0.74
LCRFX8		8,693.5	-392.7	-2.18	8,972.3	-336.3	-1.99
LKEL33		9,239.2	153.1	0.85	9,305.6	-3.0	-0.02
LZA18P		9,172.6	86.4	0.48	9,424.1	115.5	0.68
MJYV8Q		9,095.8	9.7	0.05	9,356.6	48.0	0.28
MS5111		9,029.0	-57.2	-0.32	9,275.8	-32.7	-0.19
NAL4F6		9,175.2	89.0	0.50	9,244.8	-63.8	-0.38
NKVNDE		8,960.5	-125.6	-0.70	9,311.5	2.9	0.02
P92K9D		9,174.0	87.8	0.49	9,321.6	13.1	0.08
QX2QD8		9,008.2	-77.9	-0.43	9,217.8	-90.8	-0.54
RVQPFQ	*	8,650.1	-436.0	-2.43	8,847.4	-461.2	-2.73
S1EDKQ		8,933.8	-152.3	-0.85	9,212.8	-95.8	-0.57
S4VT4R		9,124.8	38.7	0.22	9,303.4	-5.2	-0.03
SE1HE1		9,127.8	41.7	0.23	9,356.8	48.2	0.29
T22CBT		9,054.0	-32.1	-0.18	9,258.0	-50.6	-0.30
T37FRR		9,082.4	-3.7	-0.02	9,296.2	-12.4	-0.07
TDKM6D		9,266.6	180.5	1.00	9,456.8	148.2	0.88
TJFVSF		8,930.0	-156.1	-0.87	9,177.6	-131.0	-0.78
TSGVZN		9,023.6	-62.5	-0.35	9,284.9	-23.7	-0.14
U6RR32		9,091.9	5.8	0.03	9,224.9	-83.7	-0.50
UC2775		8,959.6	-126.5	-0.70	9,175.7	-132.8	-0.79
USBGNS		9,127.8	41.7	0.23	9,367.6	59.0	0.35
VCKGNA		9,063.8	-22.3	-0.12	9,248.0	-60.6	-0.36
VRFVU6		9,025.4	-60.7	-0.34	9,133.4	-175.2	-1.04
W1XB56		9,113.4	27.3	0.15	9,380.2	71.6	0.42
WXZL77	X	9,407.2	321.1	1.79	9,801.7	493.2	2.92
XAX5UP		9,107.6	21.5	0.12	9,375.2	66.6	0.40
XB79BU		9,088.4	2.3	0.01	9,318.4	9.8	0.06
XD6UES		8,717.4	-368.7	-2.05	8,950.6	-358.0	-2.12
XPLTY2		9,230.2	144.1	0.80	9,442.0	133.4	0.79
XZLVA6		9,060.2	-25.9	-0.14	9,400.4	91.8	0.54

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

WebCode	Data Flag	Sample F61			Sample F62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
Y2ECPJ		9,381.1	295.0	1.64	9,598.7	290.1	1.72
YAEZ7Q	X	8,274.4	-811.7	-4.52	8,459.2	-849.4	-5.04
Z59L3Z		9,048.4	-37.7	-0.21	9,357.8	49.2	0.29
ZUHPY7		9,102.4	16.3	0.09	9,310.2	1.6	0.01
ZUNJL		9,312.6	226.5	1.26	9,407.2	98.6	0.58

Summary Statistics

Grand Means

9,086.13 psi

9,308.56 psi

Std Dev Btwn Labs

179.74 psi

168.66 psi

Statistics based on 64 of 69 reporting participants

Sample F61: ABS/PC & **Sample F62:** ABS/PC

Comments on assigned Data Flags for Test #704

7EFY9L (X) - Extreme data.

B95BDT (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F62.

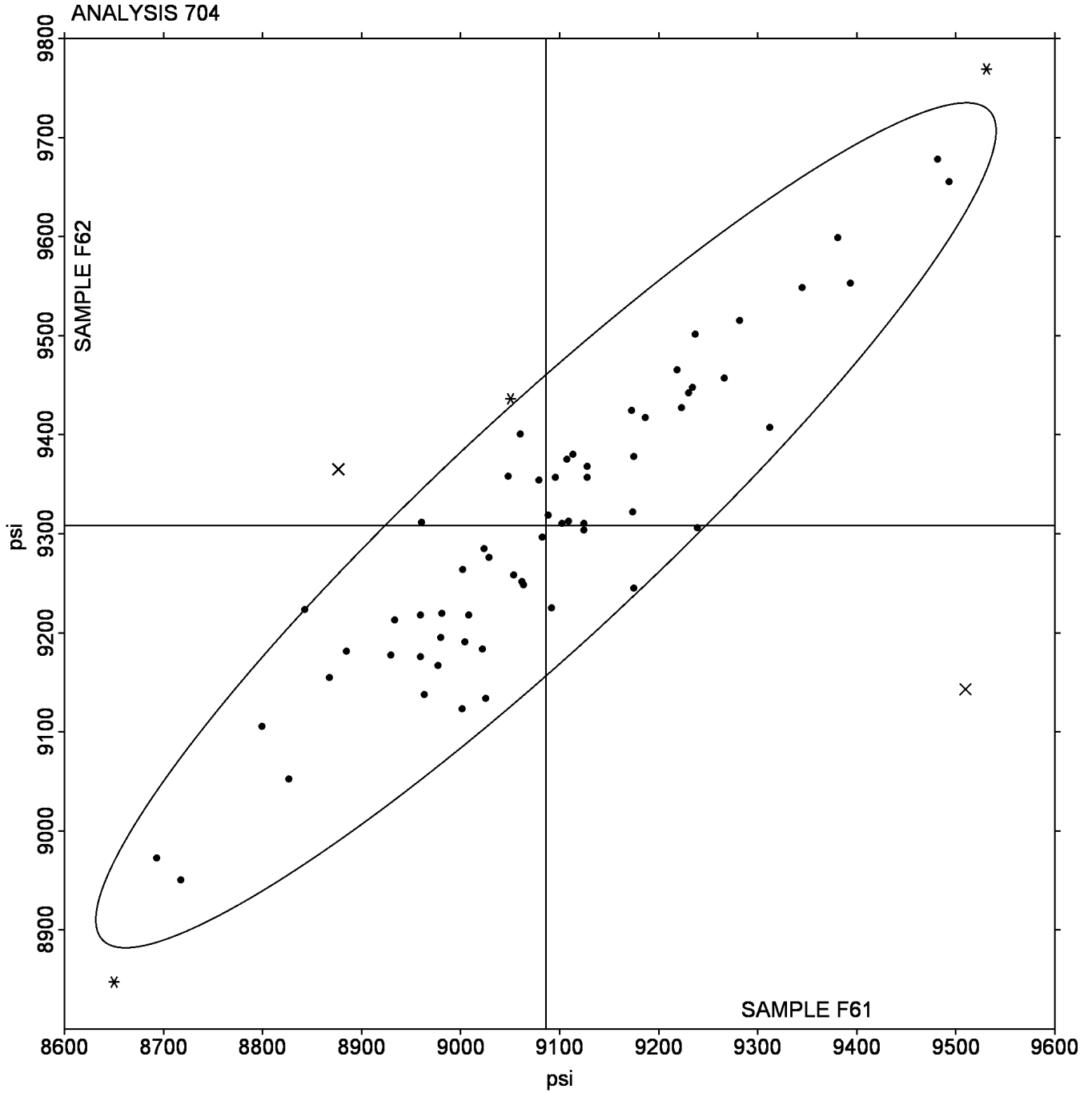
L8EHFF (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F61.

WXZL77 (X) - Inconsistent in testing between samples, data for Sample F62 are high. Also inconsistent in testing within both sample sets.

YAEZ7Q (X) - Low data for all samples.

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

Grand Mean Sample F61: 9,086.13 psi Grand Mean Sample F62: 9,308.56 psi



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

WebCode	Data Flag	Sample F61			Sample F62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1XL8NX		7,093.0	0.0	0.00	8,284.6	-128.9	-0.19
2CH6MU		7,236.0	143.0	0.66	9,985.0	1,571.5	2.35
33N63E	X	7,596.0	503.0	2.31	6,964.2	-1,449.3	-2.17
36L587		7,420.8	327.8	1.51	8,846.8	433.3	0.65
3DA3A8		7,344.8	251.8	1.16	8,589.2	175.7	0.26
3Q6S6V		7,049.5	-43.5	-0.20	9,151.0	737.5	1.11
4TZM7L		7,066.3	-26.7	-0.12	8,290.4	-123.0	-0.18
5H9WXU		6,898.1	-194.9	-0.90	8,310.7	-102.7	-0.15
5NTLA5		7,230.8	137.8	0.63	8,695.1	281.6	0.42
6RDWMF		7,255.4	162.4	0.75	8,584.6	171.1	0.26
7LQCNH		6,846.0	-247.0	-1.13	8,733.2	319.7	0.48
84JF1C		7,439.6	346.6	1.59	9,041.6	628.1	0.94
88DFUG		7,108.7	15.7	0.07	8,403.8	-9.6	-0.01
8MXMIU		7,620.3	527.4	2.42	9,256.4	842.9	1.26
9WYLG3		6,923.4	-169.6	-0.78	7,262.0	-1,151.4	-1.73
ABYDPV		6,920.4	-172.6	-0.79	8,677.0	263.5	0.39
ATRSFZ		7,281.0	188.0	0.86	8,963.4	549.9	0.82
BMDYVR		7,254.0	161.0	0.74	7,893.8	-519.7	-0.78
CJLKC8		7,277.0	184.0	0.85	8,306.0	-107.5	-0.16
CJYK6P		7,222.4	129.4	0.59	9,333.1	919.7	1.38
CNRWWE		7,138.8	45.8	0.21	8,897.4	483.9	0.73
D8S6F8		7,149.6	56.6	0.26	8,876.2	462.7	0.69
DAHCKYK		7,456.4	363.4	1.67	8,059.4	-354.1	-0.53
FBHZ98		6,891.5	-201.5	-0.93	7,701.6	-711.9	-1.07
FCSKPP		7,195.4	102.4	0.47	8,886.6	473.1	0.71
G3J796		7,040.0	-53.0	-0.24	9,220.0	806.5	1.21
G4EY4S	M	7,354.0	261.0	1.20	No data reported for this sample		
G62H5Q		7,345.4	252.4	1.16	8,129.8	-283.7	-0.43
GVFRC1		7,053.4	-39.6	-0.18	8,016.0	-397.5	-0.60
JSUL8N		7,010.0	-83.0	-0.38	9,571.2	1,157.7	1.73
KPPE88		6,867.6	-225.4	-1.04	7,275.2	-1,138.3	-1.71
KXEK3N		6,645.7	-447.3	-2.05	8,255.6	-157.8	-0.24

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

WebCode	Data Flag	Sample F61			Sample F62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
L6JMES		7,208.4	115.4	0.53	7,893.0	-520.4	-0.78
MFSWSH	*	6,441.6	-651.4	-2.99	7,239.8	-1,173.7	-1.76
MWH7U7		6,787.8	-305.2	-1.40	7,977.1	-436.3	-0.65
NHUYE1		6,970.9	-122.1	-0.56	8,387.6	-25.9	-0.04
PMW5X3		7,138.4	45.4	0.21	8,942.6	529.1	0.79
PQ5KX1	X	8,658.9	1,565.9	7.19	9,501.0	1,087.5	1.63
PSEQCA		6,876.0	-217.0	-1.00	8,706.6	293.1	0.44
RTH4Y8		7,032.1	-60.9	-0.28	7,496.8	-916.7	-1.37
S1VG8R		7,047.4	-45.6	-0.21	8,093.8	-319.7	-0.48
T4DWFV		6,623.2	-469.8	-2.16	7,004.0	-1,409.5	-2.11
T8WL22		7,295.5	202.5	0.93	8,801.0	387.5	0.58
TCHNLY		6,869.9	-223.1	-1.02	7,646.2	-767.3	-1.15
TSWTVC		7,015.2	-77.8	-0.36	7,678.4	-735.1	-1.10
TSXMTL		7,030.4	-62.6	-0.29	9,230.2	816.7	1.22
U1SD7B		7,080.0	-13.0	-0.06	8,919.6	506.1	0.76
V3Y5PR		7,220.0	127.0	0.58	7,594.2	-819.2	-1.23
VWGP11		7,128.1	35.1	0.16	7,794.8	-618.7	-0.93
WB3LRJ		7,076.6	-16.4	-0.08	8,887.5	474.0	0.71
X9G3TH		7,237.0	144.0	0.66	8,828.8	415.3	0.62
Y5BZ1U		7,235.8	142.8	0.66	8,299.0	-114.5	-0.17
YWBCJN		7,175.0	82.0	0.38	9,001.2	587.7	0.88
Z9Z1NZ		7,004.0	-89.0	-0.41	7,280.6	-1,132.9	-1.70
ZD7MSC		7,061.2	-31.8	-0.15	8,300.4	-113.1	-0.17

Summary Statistics	
Grand Means	
7,092.99 psi	8,413.46 psi
Std Dev Btwn Labs	
217.75 psi	667.34 psi
Statistics based on 52 of 55 reporting participants	

Sample F61: ABS/PC & Sample F62: ABS/PC

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

Comments on assigned Data Flags for Test #705

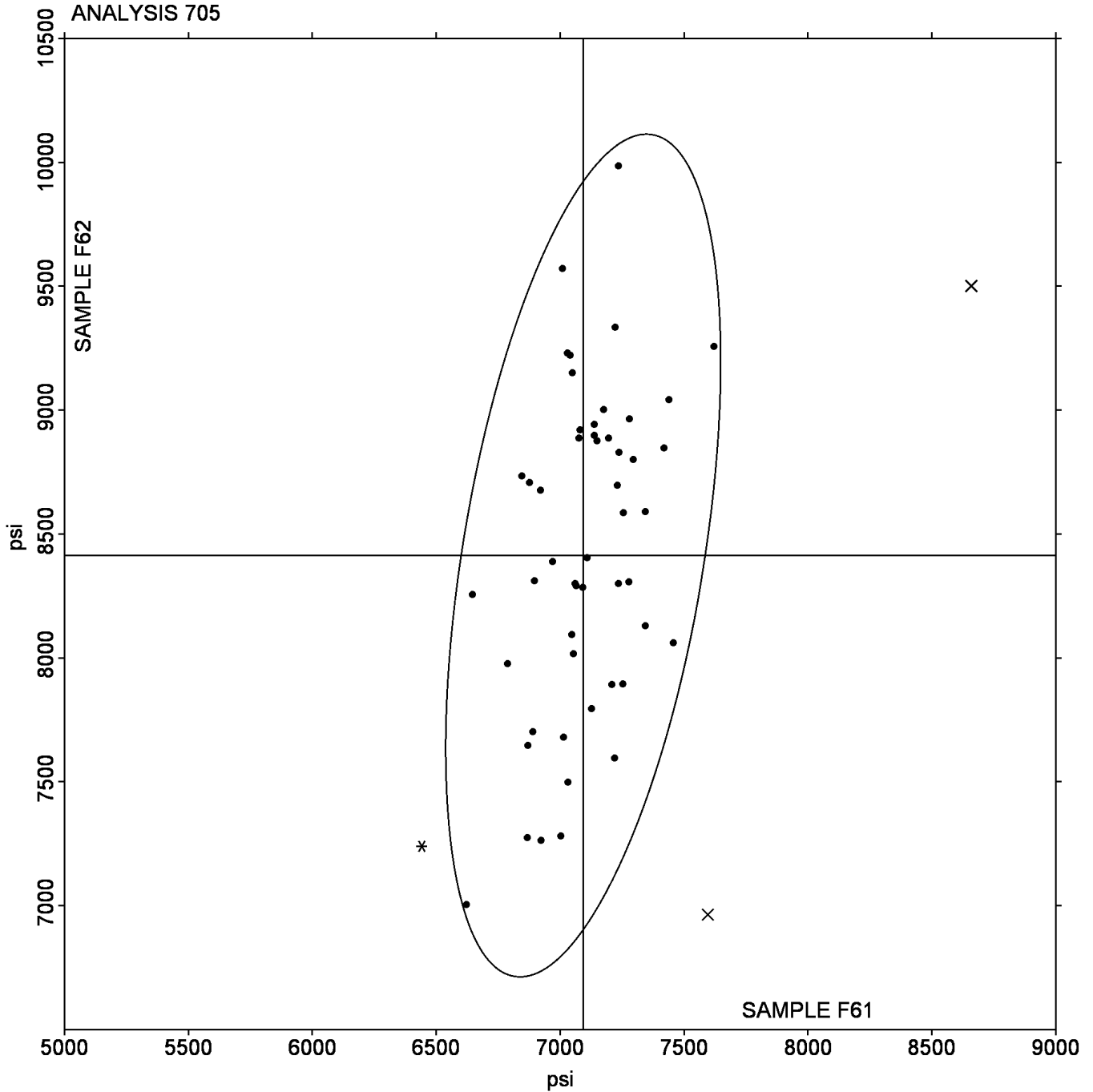
33N63E (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F61.

G4EY4S (M) - Laboratory did not submit data for Sample F62.

PQ5KX1 (X) - Inconsistent in testing between samples, data for Sample F61 are high.

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

Grand Mean Sample F61: 7,092.99 psi Grand Mean Sample F62: 8,413.46 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 F61			Sample F62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1DS3T6		3.810	0.054	0.39	4.648	0.141	1.20
1G5WGR		3.800	0.044	0.32	4.574	0.067	0.57
28GU1N		3.886	0.130	0.95	4.458	-0.049	-0.41
2AWZ6Q		3.878	0.122	0.89	4.672	0.165	1.40
2E3LRN	X	0.069	-3.686	-26.80	0.088	-4.418	-37.45
2WLJU2		3.760	0.004	0.03	4.340	-0.167	-1.41
3ZH52B		3.610	-0.146	-1.06	4.316	-0.191	-1.62
528GZT		3.738	-0.018	-0.13	4.506	-0.001	-0.01
5A7DBJ		3.562	-0.194	-1.41	4.436	-0.071	-0.60
5PDQ2X	X	4.470	0.714	5.19	5.300	0.793	6.73
5ZXPYZ	*	4.194	0.438	3.19	4.756	0.249	2.11
6MMU5F		3.766	0.010	0.07	4.450	-0.057	-0.48
786LCV	X	4.318	0.562	4.09	4.453	-0.054	-0.46
8WND1M		3.718	-0.038	-0.28	4.676	0.169	1.44
AR9N76	X	4.304	0.548	3.99	4.964	0.457	3.88
B54A9Q		3.742	-0.014	-0.10	4.512	0.005	0.05
BF4TS5		3.626	-0.130	-0.94	4.410	-0.097	-0.82
BH9N84		3.884	0.128	0.93	4.714	0.207	1.76
BVMMGB		3.780	0.024	0.18	4.440	-0.067	-0.56
CJZ4ZP		3.806	0.050	0.36	4.496	-0.011	-0.09
CZAQNM		3.870	0.114	0.83	4.618	0.111	0.94
E6Q4KA		3.684	-0.072	-0.52	4.430	-0.077	-0.65
FBG3QC		3.650	-0.106	-0.77	4.360	-0.147	-1.24
FXS662		3.660	-0.096	-0.70	4.426	-0.081	-0.68
GSQW5Y		3.842	0.086	0.63	4.420	-0.087	-0.73
GXTV8H	*	4.046	0.290	2.11	4.446	-0.061	-0.51
HCR7PS		3.498	-0.258	-1.87	4.498	-0.009	-0.07
HT5GQL		3.542	-0.214	-1.55	4.426	-0.081	-0.68
HVXPBP	X	3.058	-0.698	-5.07	3.950	-0.557	-4.72
KP4TLJ		3.856	0.100	0.73	4.440	-0.067	-0.56
L1YWEY	*	4.008	0.252	1.83	4.810	0.303	2.57
L6TUZ7		3.766	0.010	0.07	4.584	0.077	0.66

**Plastics Interlaboratory Testing Program
Analysis 706**

Percent Elongation at Yield - Percent

WebCode	Data Flag	Sample F61			Sample F62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
LK8Z5E		3.720	-0.036	-0.26	4.452	-0.055	-0.46
MEGU5J		3.784	0.028	0.20	4.414	-0.093	-0.79
MM1K2J		3.672	-0.084	-0.61	4.452	-0.055	-0.46
NE6BCS		3.440	-0.316	-2.30	4.420	-0.087	-0.73
NVGBM2		3.574	-0.182	-1.32	4.378	-0.129	-1.09
PUQFQK		3.900	0.144	1.05	4.720	0.213	1.81
RERRSY		3.858	0.103	0.75	4.595	0.088	0.75
RK6RFW	X	3.494	-0.262	-1.90	4.068	-0.439	-3.72
RXQ7AV		3.700	-0.056	-0.41	4.390	-0.117	-0.99
RZ5F53		3.766	0.010	0.07	4.502	-0.005	-0.04
RZFDT7		3.848	0.092	0.67	4.618	0.111	0.94
SJ84WK		3.783	0.027	0.19	4.511	0.005	0.04
UA9BKW		3.704	-0.052	-0.38	4.602	0.095	0.81
VJP87F		3.772	0.016	0.12	4.560	0.053	0.45
WNCCCQ		3.710	-0.046	-0.33	4.430	-0.077	-0.65
WQ6GBB		3.652	-0.104	-0.75	4.380	-0.127	-1.07
WZ5EHX		3.696	-0.060	-0.44	4.442	-0.065	-0.55
XG96CZ		3.764	0.008	0.06	4.408	-0.099	-0.84
Y64HX8		3.752	-0.004	-0.03	4.522	0.015	0.13
Y6EPJX	X	8.547	4.791	34.83	9.618	5.111	43.33
ZESANR		3.692	-0.064	-0.46	4.646	0.139	1.18

Summary Statistics			
Grand Means	3.7558	Percent	4.5066
			Percent
Std Dev Btwn Labs	0.1376	Percent	0.1180
			Percent
Statistics based on 46 of 53 reporting participants			

Sample F61: ABS/PC & Sample F62: ABS/PC

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

Comments on assigned Data Flags for Test #706

2E3LRN (X) - Extreme data.

5PDQ2X (X) - High data for all samples.

786LCV (X) - Inconsistent in testing between samples, data for Sample F61 are high.

AR9N76 (X) - High data for all samples. Possible Systematic Error.

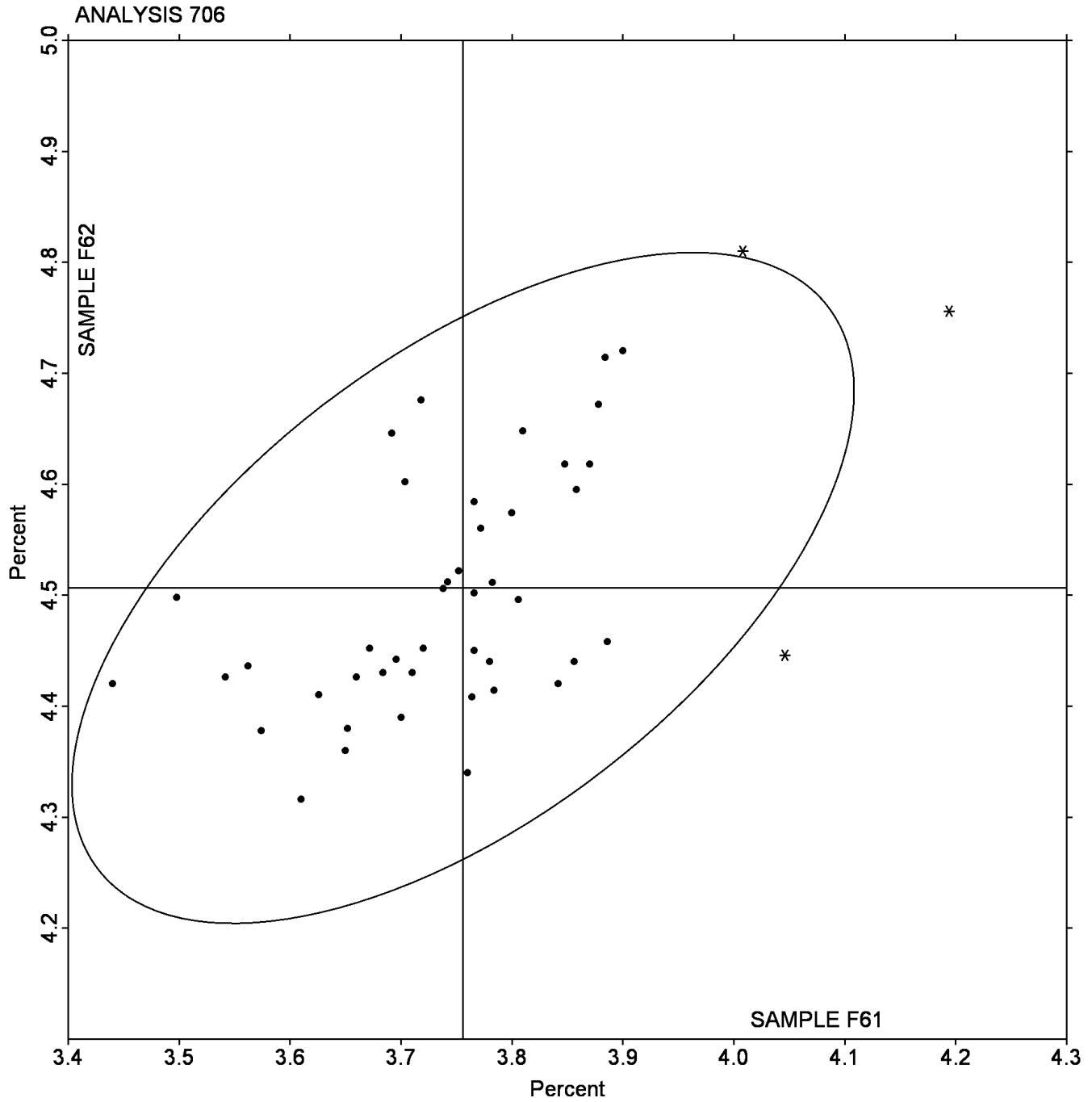
HVXPBP (X) - Low data for all samples.

RK6RFX (X) - Inconsistent in testing between samples, data for Sample F62 are low.

Y6EPJX (X) - High data for all samples.

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

Grand Mean Sample F61: 3.7558 Percent Grand Mean Sample F62: 4.5066 Percent



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

Plastics Interlaboratory Testing Program
Analysis 708
Modulus of Elasticity - ksi

WebCode	Data Flag	Sample F61			Sample F62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1RZKPL		417.94	20.74	0.88	399.23	12.82	0.50
1T9EHZ		409.26	12.05	0.51	397.32	10.91	0.42
2117CB		382.49	-14.72	-0.62	382.92	-3.50	-0.14
2E6882		391.26	-5.95	-0.25	365.68	-20.73	-0.80
32A1PK		393.54	-3.66	-0.16	390.04	3.62	0.14
399PEP		421.31	24.10	1.02	406.54	20.13	0.78
472GZ3	X	3.76	-393.45	-16.68	3.84	-382.57	-14.85
6EGE3L		440.91	43.70	1.85	415.37	28.96	1.12
6XPVJT		375.01	-22.20	-0.94	367.04	-19.38	-0.75
74W9RF		421.51	24.30	1.03	411.14	24.73	0.96
827B39		394.38	-2.83	-0.12	381.20	-5.21	-0.20
87M913		410.51	13.30	0.56	401.31	14.90	0.58
8MX1FV		384.67	-12.54	-0.53	365.47	-20.95	-0.81
98L3JF		421.68	24.48	1.04	393.40	6.98	0.27
A6776M	X	491.65	94.45	4.00	436.13	49.72	1.93
ACQU4R		396.72	-0.49	-0.02	401.84	15.43	0.60
C9YLM3		383.35	-13.86	-0.59	372.91	-13.50	-0.52
DYBGYF		403.90	6.69	0.28	398.68	12.27	0.48
DZTWMC	X	53,635.86	53,238.65	2,257.24	52,771.60	52,385.18	2,033.53
E3RSPA		385.48	-11.73	-0.50	361.60	-24.81	-0.96
EALEGP		354.84	-42.37	-1.80	349.27	-37.15	-1.44
FM3MHV	X	446.84	49.64	2.10	332.73	-53.69	-2.08
FXW86C		386.02	-11.19	-0.47	369.80	-16.61	-0.64
FY74J4		380.42	-16.79	-0.71	369.40	-17.01	-0.66
HBJV9B	X	213.74	-183.47	-7.78	208.64	-177.77	-6.90
HCY5AP		386.08	-11.13	-0.47	376.58	-9.83	-0.38
JGV2JF		346.97	-50.24	-2.13	329.02	-57.39	-2.23
KZP6JU		433.66	36.45	1.55	439.04	52.63	2.04
LGM9TR		395.89	-1.32	-0.06	394.25	7.84	0.30
LRVN26		409.80	12.59	0.53	401.60	15.19	0.59
MXVDZ2		390.40	-6.81	-0.29	380.40	-6.01	-0.23
NYVJH9	X	128.75	-268.45	-11.38	131.13	-255.28	-9.91

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

WebCode	Data Flag	Sample F61			Sample F62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PERQG2		439.37	42.17	1.79	428.51	42.09	1.63
Q2GVZ4		425.08	27.87	1.18	427.69	41.28	1.60
Q69FQ1		379.10	-18.11	-0.77	372.34	-14.07	-0.55
S19EDP		371.26	-25.95	-1.10	362.66	-23.75	-0.92
SK9YRA	*	430.62	33.41	1.42	392.48	6.07	0.24
T4TBSC	X	373.68	-23.53	-1.00	404.32	17.91	0.70
TCB2PC		417.60	20.39	0.86	404.95	18.53	0.72
TUPC2B		406.80	9.59	0.41	406.20	19.79	0.77
U3FZP1		413.26	16.05	0.68	390.36	3.95	0.15
U4NDUL		380.48	-16.73	-0.71	365.92	-20.49	-0.80
UFA52X		387.08	-10.13	-0.43	375.78	-10.63	-0.41
UGYWK4		403.22	6.01	0.25	406.58	20.17	0.78
UMRW35	*	402.04	4.83	0.20	423.40	36.99	1.44
VPEL84		380.80	-16.41	-0.70	363.12	-23.29	-0.90
WM66FB		411.50	14.29	0.61	409.56	23.15	0.90
X5BTU7		352.72	-44.49	-1.89	343.78	-42.63	-1.66
YGE3VG		390.62	-6.59	-0.28	389.72	3.31	0.13
Z2ASHP		419.09	21.88	0.93	394.98	8.57	0.33
ZE4DZY		406.92	9.71	0.41	396.96	10.55	0.41
ZJL6JL	*	338.80	-58.41	-2.48	312.60	-73.81	-2.87

Summary Statistics	
Grand Means	
397.208 ksi	386.415 ksi
Std Dev Btwn Labs	
23.586 ksi	25.761 ksi
Statistics based on 45 of 52 reporting participants	

Sample F61: ABS/PC & Sample F62: ABS/PC

Plastics Interlaboratory Testing Program
Analysis 708
Modulus of Elasticity - ksi

Comments on assigned Data Flags for Test #708

472GZ3 (X) - Extreme data.

A6776M (X) - Inconsistent in testing between samples, data for Sample F61 are high.

DZTWMC (X) - Extreme data. Lab indicated reporting in mPa, but data appear to be in psi.

FM3MHV (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F61.

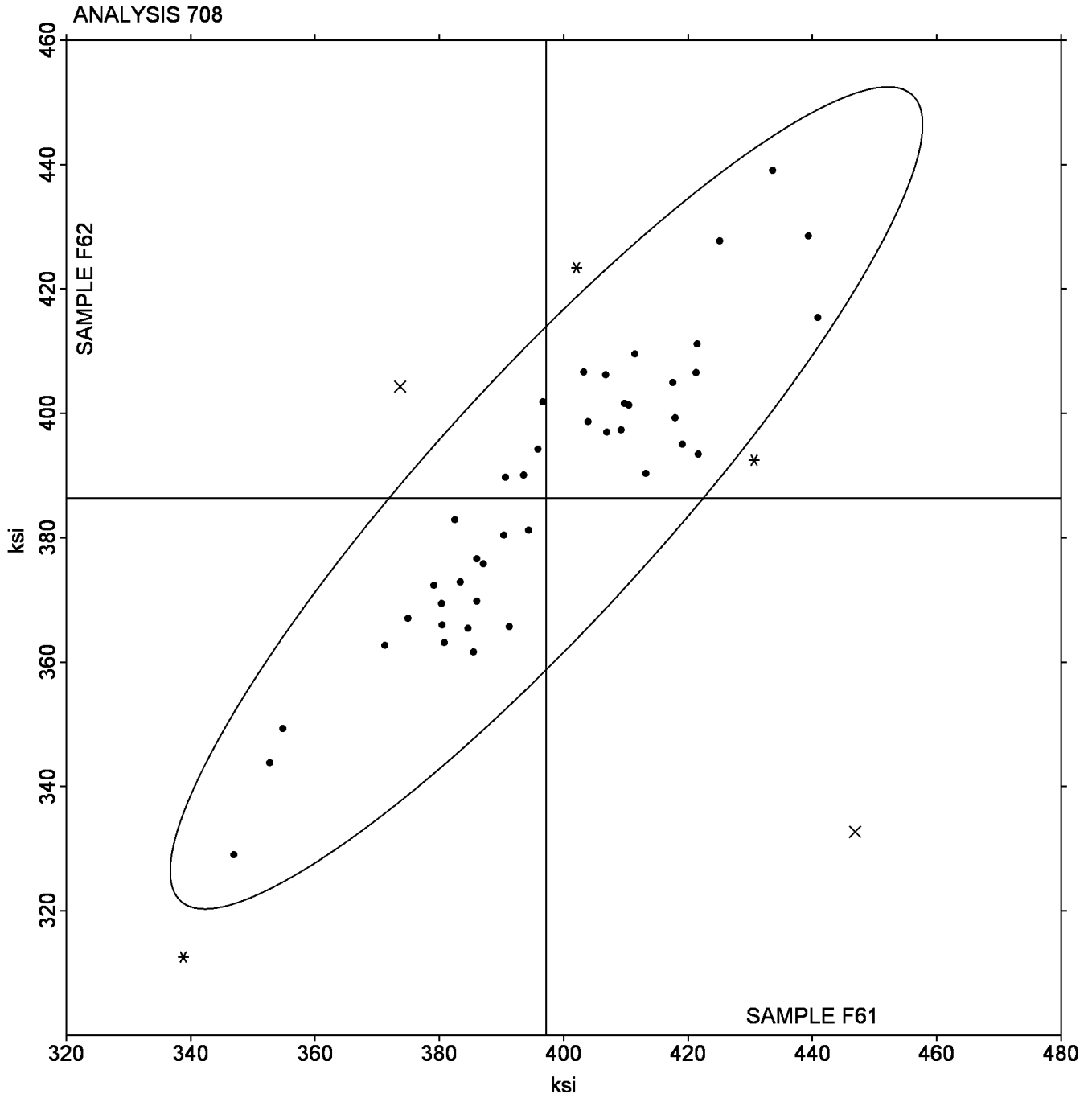
HBJV9B (X) - Low data for all samples.

NYVJH9 (X) - Low data for all samples.

T4TBSC (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F62.

Plastics Interlaboratory Testing Program
Analysis 708
Modulus of Elasticity - ksi

Grand Mean Sample F61: 397.21 ksi Grand Mean Sample F62: 386.41 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 C61			Sample C62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
13TBGZ		64.03	-0.93	-0.80	62.21	-1.18	-1.00
1YHBAZ		65.36	0.40	0.35	63.70	0.31	0.26
23RDUN		62.62	-2.34	-2.02	61.12	-2.27	-1.92
26EFRH		66.66	1.70	1.47	65.02	1.63	1.37
2ESS31	X	66.24	1.28	1.11	66.08	2.69	2.27
3FAC1H		64.84	-0.12	-0.11	63.74	0.35	0.29
4KZSWV		65.99	1.03	0.89	64.33	0.94	0.79
5B3GXX		65.66	0.70	0.61	63.54	0.15	0.13
5P7ADH		63.60	-1.36	-1.17	61.81	-1.58	-1.33
5WFT99		66.27	1.31	1.13	65.33	1.94	1.63
687XYK		63.02	-1.94	-1.68	61.78	-1.61	-1.36
7681YP		66.07	1.11	0.96	64.52	1.12	0.95
82V6PT	X	60.00	-4.96	-4.29	58.72	-4.68	-3.95
8MKW6H		64.37	-0.59	-0.51	62.52	-0.87	-0.74
8NXDJW	X	63.75	-1.21	-1.04	63.74	0.35	0.30
8TPK25		64.87	-0.09	-0.08	63.40	0.01	0.01
945M6H		65.06	0.10	0.09	63.28	-0.11	-0.10
9BYYX5		65.32	0.36	0.31	64.55	1.15	0.97
9LDKGU		66.05	1.09	0.94	64.52	1.13	0.95
AG37TZ		64.83	-0.13	-0.11	63.25	-0.15	-0.12
B365BK		65.52	0.56	0.48	64.04	0.65	0.55
B548JK		67.18	2.22	1.92	65.78	2.39	2.02
BUAJSY		64.91	-0.05	-0.04	63.24	-0.15	-0.13
BWZPAA		66.74	1.78	1.54	65.13	1.74	1.47
C4D9A6		66.33	1.37	1.18	64.74	1.35	1.14
D89ZZC		63.70	-1.26	-1.09	61.85	-1.54	-1.30
DPEQW3		64.16	-0.80	-0.69	62.53	-0.86	-0.73
E8G1FW		64.29	-0.67	-0.58	62.82	-0.58	-0.49
FRQPXL		64.44	-0.52	-0.45	62.83	-0.56	-0.47
H51JCN	X	32.50	-32.46	-28.07	32.82	-30.57	-25.81
H6K3KF		65.46	0.50	0.44	64.41	1.02	0.86
HXUYSL		65.00	0.04	0.03	63.34	-0.06	-0.05

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

WebCode	Data Flag	Sample C61			Sample C62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
JJ3TR2		64.23	-0.73	-0.63	63.06	-0.34	-0.28
K92WVZ		65.72	0.76	0.66	64.34	0.95	0.80
KP35WT		67.34	2.38	2.05	65.87	2.47	2.09
NRBMAD		66.09	1.13	0.98	63.67	0.28	0.23
P6VLS6		66.52	1.56	1.35	64.94	1.54	1.30
QA8Q2N	*	65.33	0.37	0.32	62.70	-0.69	-0.58
QK4655		64.78	-0.18	-0.16	63.12	-0.27	-0.23
R5B8XD	*	63.62	-1.34	-1.16	62.97	-0.42	-0.36
S3KFA9		63.96	-1.00	-0.87	62.44	-0.96	-0.81
SVHD22		65.36	0.40	0.35	63.52	0.13	0.11
TSLGJ8		63.67	-1.29	-1.12	61.58	-1.81	-1.53
V24H92		63.72	-1.24	-1.08	62.35	-1.04	-0.88
V73SWF		64.60	-0.36	-0.31	63.18	-0.22	-0.18
V9VNJP		64.92	-0.04	-0.04	63.33	-0.07	-0.06
VAWSKZ		62.83	-2.13	-1.84	61.81	-1.58	-1.34
W246HC		63.31	-1.65	-1.43	61.44	-1.95	-1.65
Y8CKUE		64.89	-0.07	-0.06	63.05	-0.35	-0.29

Summary Statistics

Grand Means

64.961 MPa

63.393 MPa

Std Dev Btwn Labs

1.157 MPa

1.185 MPa

Statistics based on 45 of 49 reporting participants

Sample C61: ABS/PC & **Sample C62:** ABS/PC

Comments on assigned Data Flags for Test #730

2ESS31 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample C61.

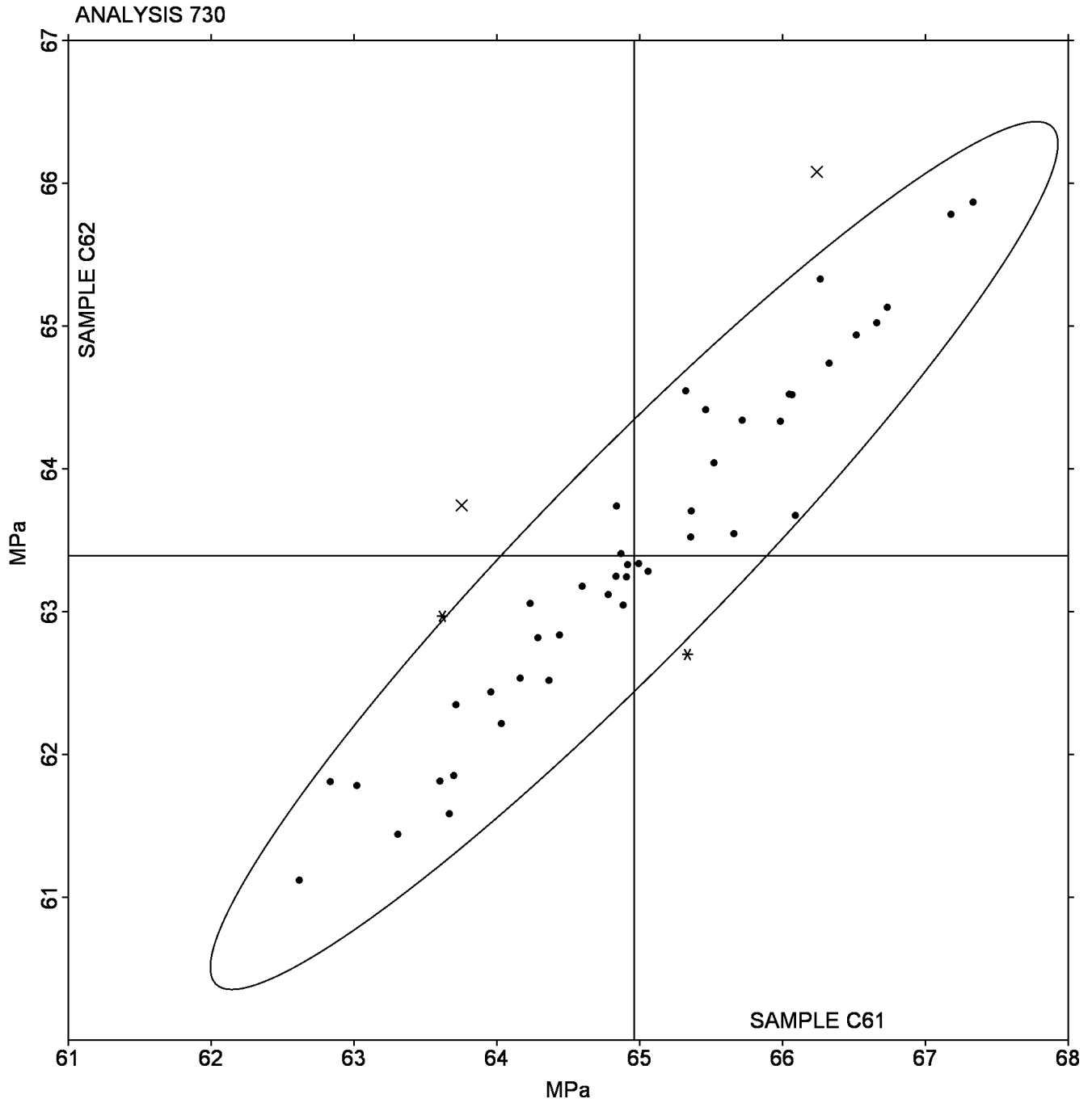
82V6PT (X) - Low data for all samples.

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

H51JCN (X) - Low data for all samples.

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

Grand Mean Sample C61: 64.961 MPa Grand Mean Sample C62: 63.393 MPa



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

**Plastics Interlaboratory Testing Program
Analysis 731**

Tensile Stress at Break - MPa

WebCode	Data Flag	Sample C61			Sample C62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
17755J		55.92	1.46	0.44	51.72	-0.43	-0.19
1PWKUF		51.83	-2.63	-0.80	51.50	-0.65	-0.29
23T1B1		56.80	2.34	0.71	54.53	2.38	1.08
7GU1X7	*	62.41	7.95	2.42	57.70	5.55	2.51
7YCM6G		61.44	6.98	2.13	53.20	1.05	0.48
82EXQN		55.14	0.67	0.21	50.95	-1.20	-0.54
8MVQL5		59.28	4.82	1.47	54.90	2.75	1.25
A11DEC		60.44	5.97	1.82	53.50	1.36	0.61
A5NUFG		54.51	0.04	0.01	53.45	1.30	0.59
ABZZPH		52.36	-2.10	-0.64	52.24	0.09	0.04
AD3WXZ		54.00	-0.46	-0.14	53.32	1.17	0.53
BDYYZ8		56.10	1.64	0.50	54.00	1.85	0.84
BPGXNA		50.84	-3.62	-1.10	50.69	-1.46	-0.66
CLZG7Y		58.23	3.77	1.15	50.40	-1.75	-0.79
CZCFRH		52.20	-2.26	-0.69	54.33	2.18	0.99
DCLYEB		56.83	2.36	0.72	50.02	-2.12	-0.96
GQJTM3		50.54	-3.92	-1.20	49.58	-2.57	-1.16
GZ5DMM		53.69	-0.78	-0.24	50.69	-1.46	-0.66
JPTNQ8	X	55.84	1.38	0.42	62.52	10.37	4.70
K4P5E6		56.24	1.78	0.54	53.44	1.29	0.59
LFK7EY		53.51	-0.95	-0.29	55.07	2.93	1.33
N7CZF3		53.68	-0.78	-0.24	50.44	-1.71	-0.77
NCGXSN		54.09	-0.37	-0.11	50.56	-1.59	-0.72
NCU34L		48.77	-5.69	-1.73	48.09	-4.06	-1.84
NVL91R		58.38	3.92	1.19	53.51	1.36	0.62
P2BA4V		52.57	-1.89	-0.58	51.93	-0.22	-0.10
PCRUEY		53.63	-0.83	-0.25	53.72	1.57	0.71
PS4657		53.80	-0.66	-0.20	51.78	-0.37	-0.17
PV4E1G		54.54	0.07	0.02	53.87	1.72	0.78
PXVCNF		56.43	1.96	0.60	56.17	4.02	1.82
QBQSYL		57.59	3.13	0.95	53.10	0.95	0.43
SWL6MA		51.08	-3.38	-1.03	51.94	-0.21	-0.09

**Plastics Interlaboratory Testing Program
Analysis 731**

Tensile Stress at Break - MPa

WebCode	Data Flag	Sample C61			Sample C62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
T4GGAT		51.57	-2.89	-0.88	51.17	-0.97	-0.44
TRPFMB		48.59	-5.88	-1.79	49.52	-2.63	-1.19
UFPLJ		51.45	-3.01	-0.92	51.62	-0.53	-0.24
UNYNZ7		53.71	-0.76	-0.23	50.48	-1.67	-0.75
UY37PZ		51.67	-2.79	-0.85	52.32	0.17	0.08
VBLU1Z		53.66	-0.80	-0.24	53.96	1.81	0.82
WZNRD5	*	48.85	-5.61	-1.71	46.22	-5.92	-2.68
XGDV4X		57.82	3.36	1.02	53.49	1.34	0.61
Y8UR43		51.38	-3.08	-0.94	48.79	-3.36	-1.52
ZD2LNR		54.44	-0.02	-0.01	49.54	-2.60	-1.18
ZY3H8D		57.50	3.04	0.93	52.63	0.48	0.22
ZZEDBX		54.36	-0.10	-0.03	52.25	0.10	0.05

Summary Statistics

Grand Means

54.462 MPa

52.147 MPa

Std Dev Btwn Labs

3.280 MPa

2.209 MPa

Statistics based on 43 of 44 reporting participants

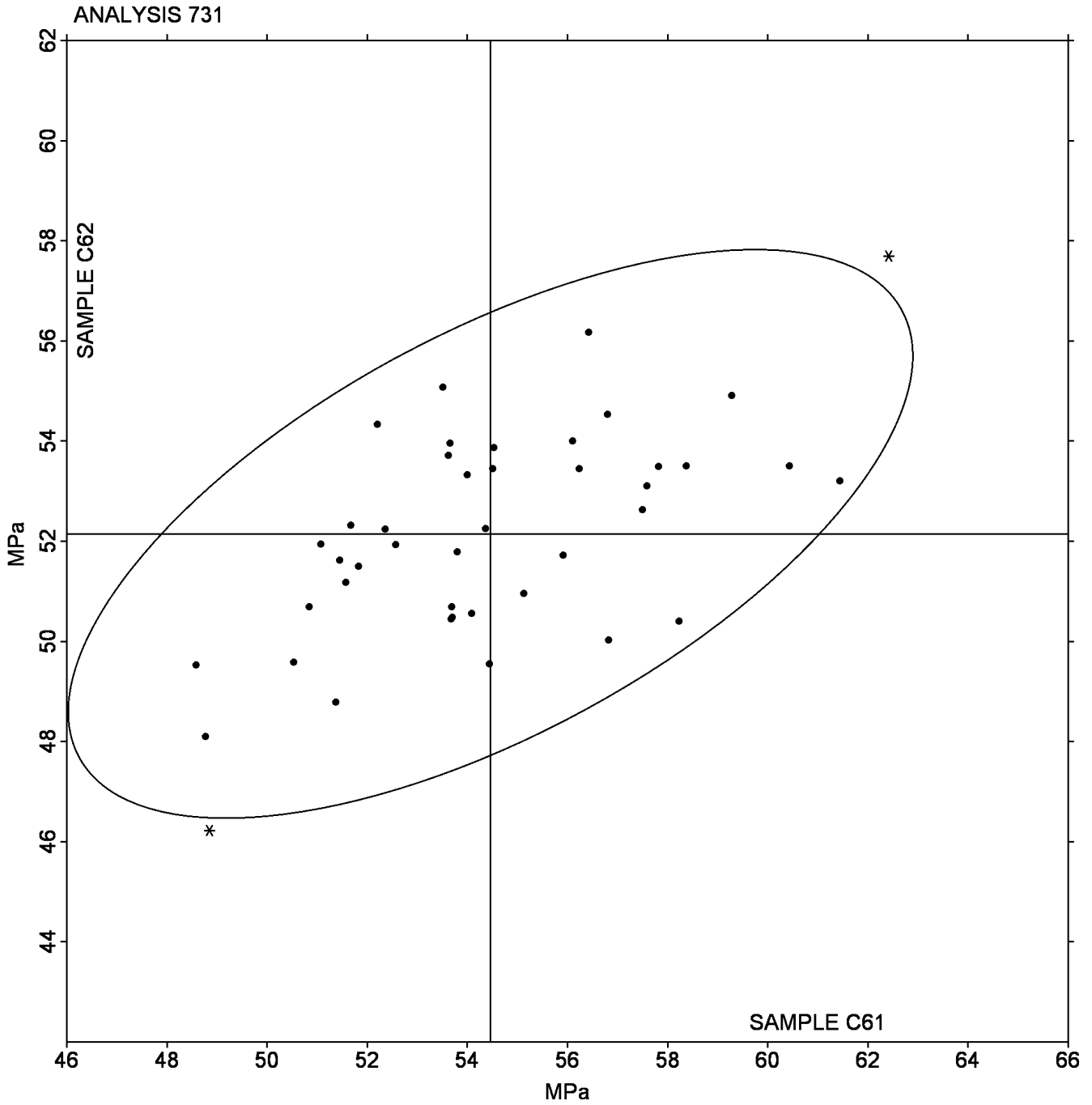
Sample C61: ABS/PC & **Sample C62:** ABS/PC

Comments on assigned Data Flags for Test #731

JPTNQ8 (X) - Inconsistent in testing between samples, data for Sample C62 are high.

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

Grand Mean Sample C61: 54.462 MPa Grand Mean Sample C62: 52.147 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 C61			Sample C62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
12EYMA		4.008	-0.210	-1.26	4.254	-0.158	-1.05
137U8J		4.256	0.038	0.23	4.414	0.002	0.01
1QTNCC		4.208	-0.010	-0.06	4.390	-0.022	-0.15
2JPZGQ		4.232	0.014	0.08	4.458	0.046	0.31
381G9B		4.074	-0.144	-0.86	4.188	-0.224	-1.49
3WBEAG	*	4.679	0.461	2.76	4.757	0.345	2.30
4A3BCR		4.328	0.110	0.66	4.650	0.238	1.59
4P6L7T		4.344	0.126	0.75	4.536	0.124	0.83
4XFKSA		4.208	-0.010	-0.06	4.390	-0.022	-0.15
4ZA8LS		3.820	-0.398	-2.38	4.040	-0.372	-2.48
6ZVJE4		4.228	0.010	0.06	4.444	0.032	0.21
75K4Q4		4.344	0.126	0.75	4.514	0.102	0.68
7P83Q2		4.350	0.132	0.79	4.550	0.138	0.92
94KJHU		4.272	0.054	0.32	4.506	0.094	0.63
BKG993	X	4.856	0.638	3.82	4.776	0.364	2.43
E4AWUB		4.194	-0.024	-0.14	4.416	0.004	0.03
F4X4TC		4.500	0.282	1.69	4.578	0.166	1.11
FWMMR6		3.924	-0.294	-1.76	4.116	-0.296	-1.97
G426R3		4.086	-0.132	-0.79	4.436	0.024	0.16
GR3XPF		4.214	-0.004	-0.02	4.378	-0.034	-0.23
GUXF8V		4.236	0.018	0.11	4.376	-0.036	-0.24
HQNK9		4.330	0.112	0.67	4.592	0.180	1.20
JYYPW1		4.260	0.042	0.25	4.460	0.048	0.32
KRCLCH		4.182	-0.036	-0.22	4.394	-0.018	-0.12
KTZ5EH		3.920	-0.298	-1.78	4.274	-0.138	-0.92
KW9EZ6		4.168	-0.050	-0.30	4.268	-0.144	-0.96
LGPE96		4.282	0.064	0.38	4.400	-0.012	-0.08
MHDK7R		4.158	-0.060	-0.36	4.284	-0.128	-0.85
PLTDEF		4.130	-0.088	-0.53	4.378	-0.034	-0.23
PUW2SF		4.046	-0.172	-1.03	4.278	-0.134	-0.89
QK4RQ4	X	5.318	1.100	6.58	5.522	1.110	7.40
SB7FRT	X	4.658	0.440	2.63	4.458	0.046	0.31

**Plastics Interlaboratory Testing Program
Analysis 732**

Percent Strain at Yield

WebCode	Data Flag	Sample C61			Sample C62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
UAVVD8		4.400	0.182	1.09	4.640	0.228	1.52
UVLEK7		4.236	0.018	0.11	4.396	-0.016	-0.11
V1282X		4.200	-0.018	-0.11	4.392	-0.020	-0.13
VGZZ2L		4.374	0.156	0.93	4.492	0.080	0.53
WSUG5T		4.440	0.222	1.33	4.580	0.168	1.12
YSLA2N		4.179	-0.040	-0.24	4.340	-0.072	-0.48
Z73UN9	X	8.778	4.560	27.28	8.436	4.024	26.83
ZG1X85		4.042	-0.176	-1.05	4.274	-0.138	-0.92

Summary Statistics

Grand Means

4.2181 Percent

4.4120 Percent

Std Dev Btwn Labs

0.1672 Percent

0.1500 Percent

Statistics based on 36 of 40 reporting participants

Sample C61: ABS/PC & Sample C62: ABS/PC

Comments on assigned Data Flags for Test #732

BKG993 (X) - Inconsistent in testing between samples, data for Sample C61 are high.

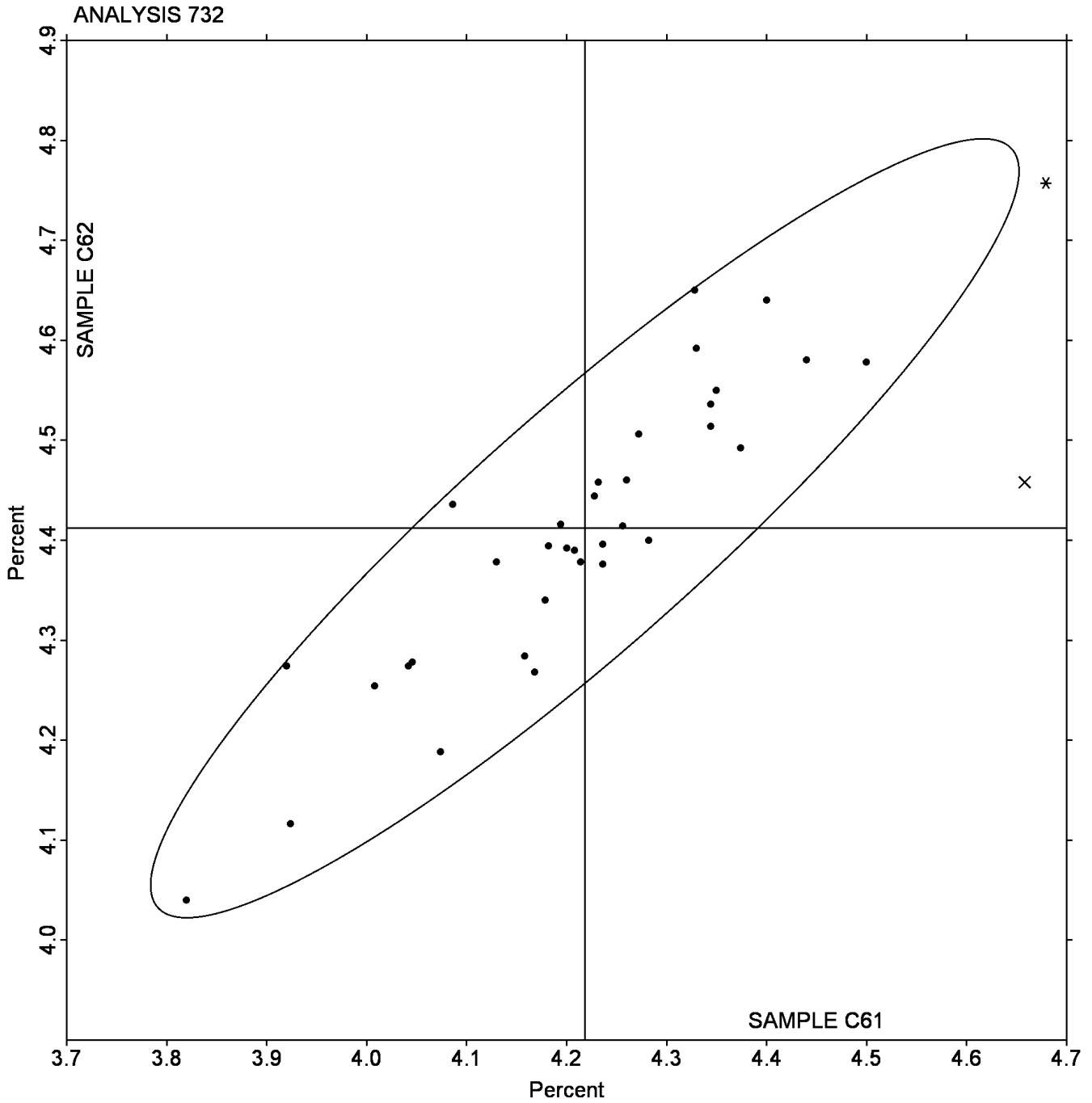
QK4RQ4 (X) - High data for all samples.

SB7FRT (X) - Inconsistent in testing between samples.

Z73UN9 (X) - High data for all samples. Also inconsistent in testing within both sample sets.

Plastics Interlaboratory Testing Program
Analysis 732
Percent Strain at Yield

Grand Mean Sample C61: 4.2181 Percent Grand Mean Sample C62: 4.4120 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 C61			Sample C62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
55DB95	X	2,146	-586	-4.41	2,229	-445	-3.77
5FXLZJ		2,630	-101	-0.76	2,478	-196	-1.67
5HZUKV		2,848	117	0.88	2,762	88	0.75
5MEA76	X	2,473	-258	-1.94	2,724	50	0.43
5QZ61R	*	2,432	-300	-2.25	2,526	-148	-1.26
69LSU6		2,503	-228	-1.71	2,500	-174	-1.47
6E81YR		2,514	-218	-1.64	2,480	-194	-1.65
88HYWJ		2,768	36	0.27	2,682	8	0.07
89LAEZ		2,699	-33	-0.25	2,662	-12	-0.10
8UG6HU		2,732	1	0.00	2,682	8	0.07
A88AJG		2,875	144	1.08	2,826	153	1.29
AMTP34		2,734	2	0.02	2,711	37	0.31
B3S9T4		2,653	-79	-0.59	2,562	-112	-0.95
B5BYMA		2,758	27	0.20	2,722	48	0.41
B5QWQM		2,921	190	1.43	2,908	235	1.99
DND26B		2,548	-184	-1.38	2,479	-195	-1.65
F4PAQ4		2,765	34	0.25	2,755	82	0.69
F5B4WE		2,760	28	0.21	2,693	20	0.17
F6PRYM		2,724	-7	-0.05	2,637	-37	-0.31
FXZ32Z		2,751	20	0.15	2,580	-94	-0.80
G3G3QA	X	2,845	114	0.86	3,285	611	5.18
G3R454		3,014	283	2.13	2,838	164	1.39
G8L13V		2,900	169	1.27	2,776	102	0.86
GUZFYN		2,894	162	1.22	2,815	141	1.19
H6E258		2,777	45	0.34	2,682	8	0.07
HN6QY5		2,832	100	0.75	2,745	71	0.60
MEDB3F		2,501	-230	-1.73	2,471	-202	-1.72
MK33BV		2,750	19	0.14	2,707	33	0.28
MTGKBG		2,706	-25	-0.19	2,718	44	0.37
MZKC56		2,829	98	0.73	2,768	94	0.80
PNL92P		2,707	-24	-0.18	2,649	-25	-0.21
RBYWSJ		2,765	33	0.25	2,692	18	0.16

Plastics Interlaboratory Testing Program
Analysis 734
Modulus of Elasticity - MPa

WebCode	Data Flag	Sample C61			Sample C62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
S1GB8M		2,764	32	0.24	2,708	34	0.29
SMY7W5		2,559	-172	-1.30	2,552	-122	-1.04
TVRCFC		2,725	-7	-0.05	2,661	-13	-0.11
UG3KCN		2,873	142	1.07	2,866	192	1.63
Z8S63G		2,659	-73	-0.55	2,619	-54	-0.46

Summary Statistics

Grand Means

2,731.5 MPa

2,673.9 MPa

Std Dev Btwn Labs

133.0 MPa

117.8 MPa

Statistics based on 34 of 37 reporting participants

Sample C61: ABS/PC & **Sample C62:** ABS/PC

Comments on assigned Data Flags for Test #734

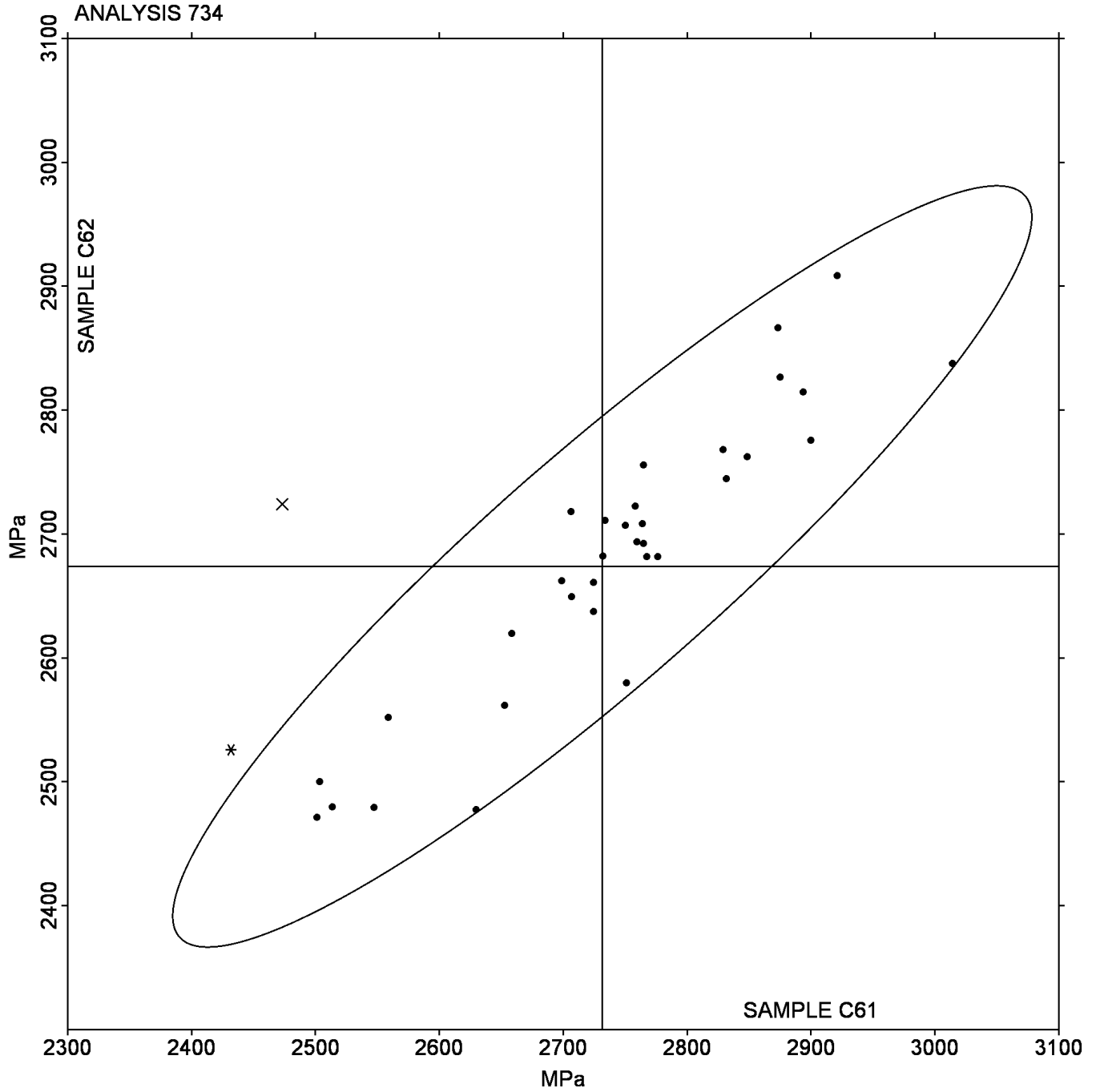
55DB95 (X) - Low data for all samples.

5MEA76 (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.

G3G3QA (X) - Inconsistent in testing between samples, data for Sample C62 are high.

Plastics Interlaboratory Testing Program
Analysis 734
Modulus of Elasticity - MPa

Grand Mean Sample C61: 2,731.45 MPa Grand Mean Sample C62: 2,673.86 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 J61			Sample J62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1SJ4WD		409.0	-0.9	-0.04	398.1	-2.7	-0.11
2FW64U		424.6	14.7	0.60	412.3	11.6	0.46
36T235		418.2	8.3	0.34	406.4	5.7	0.23
3AF5EF		413.5	3.6	0.15	405.3	4.6	0.18
44H7PX		427.3	17.4	0.71	425.6	24.9	0.99
4H422V		352.4	-57.5	-2.35	341.2	-59.5	-2.38
54WCRN	X	421.6	11.6	0.48	396.2	-4.6	-0.18
5LC8XN		444.8	34.9	1.43	440.6	39.8	1.59
69CAE8		410.5	0.6	0.02	398.5	-2.2	-0.09
6F479W		419.2	9.3	0.38	409.4	8.7	0.35
7C73TH		418.3	8.4	0.34	414.8	14.0	0.56
7M2213	X	583.7	173.8	7.11	539.1	138.4	5.53
82MBJZ	X	395.5	-14.4	-0.59	402.0	1.2	0.05
8F83QZ		429.9	20.0	0.82	417.3	16.6	0.66
8PBCNY	X	309.8	-100.1	-4.09	348.4	-52.3	-2.09
8S9XAV		383.4	-26.5	-1.08	373.0	-27.7	-1.11
8UT1RG		401.7	-8.3	-0.34	390.5	-10.2	-0.41
94BCBL		394.9	-15.0	-0.61	384.8	-15.9	-0.64
9RYP6P		417.3	7.3	0.30	404.8	4.1	0.16
9XPMQQ		439.8	29.9	1.22	437.0	36.3	1.45
BX59R5		420.9	10.9	0.45	411.2	10.5	0.42
CD96FM		442.0	32.1	1.31	427.4	26.7	1.07
D3RCY7		385.2	-24.7	-1.01	378.1	-22.6	-0.90
DARSPC	*	394.6	-15.3	-0.63	395.4	-5.3	-0.21
EALVRM		416.5	6.6	0.27	406.3	5.5	0.22
ED89NB		421.1	11.2	0.46	406.2	5.5	0.22
ERBXBW		470.0	60.1	2.46	461.0	60.3	2.41
EZE5LE		403.1	-6.8	-0.28	394.1	-6.6	-0.26
F5J1RC		428.0	18.1	0.74	424.8	24.1	0.96
FLARVM		428.0	18.0	0.74	423.4	22.6	0.90
HCL3QG		393.8	-16.1	-0.66	386.3	-14.4	-0.57
HNVZF7		371.8	-38.1	-1.56	361.8	-39.0	-1.56

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

WebCode	Data Flag	Sample J61			Sample J62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
HSYF1M		360.7	-49.2	-2.01	355.6	-45.1	-1.80
HXTNQA		423.9	14.0	0.57	414.0	13.3	0.53
JZ7BC7	X	422.9	12.9	0.53	389.4	-11.3	-0.45
KBN973		437.8	27.9	1.14	427.0	26.3	1.05
KH7E2R		401.0	-9.0	-0.37	386.7	-14.1	-0.56
KVA3QB		423.2	13.2	0.54	417.5	16.8	0.67
LBTC4Z		434.0	24.1	0.98	431.2	30.5	1.22
LGC327		353.8	-56.1	-2.29	347.2	-53.5	-2.14
LR4CWW		404.9	-5.0	-0.20	403.1	2.4	0.10
LTBS6N		434.5	24.6	1.01	424.0	23.2	0.93
M69CT5		368.8	-41.1	-1.68	359.0	-41.8	-1.67
M89RWW		399.2	-10.7	-0.44	386.2	-14.5	-0.58
MR63GR		419.8	9.8	0.40	406.3	5.5	0.22
N6SBSP		397.9	-12.0	-0.49	381.8	-19.0	-0.76
NB8ABH		376.2	-33.8	-1.38	366.1	-34.6	-1.38
P47AGM	X	502.6	92.7	3.79	490.4	89.7	3.58
Q2EGE9		382.5	-27.5	-1.12	370.5	-30.2	-1.21
Q43JB4		398.0	-11.9	-0.49	391.8	-8.9	-0.36
Q7862F		391.6	-18.3	-0.75	379.9	-20.9	-0.83
QBMZQZ	*	338.1	-71.9	-2.94	326.5	-74.2	-2.96
QGRX2K		424.1	14.2	0.58	416.2	15.5	0.62
QM9KMJ	X	395.2	-14.7	-0.60	337.9	-62.8	-2.51
R71JP6		420.6	10.7	0.44	413.0	12.3	0.49
SYQ5EU		437.6	27.7	1.13	432.8	32.1	1.28
SZJ6Q7		412.7	2.8	0.11	400.6	-0.1	-0.01
T134XR		419.1	9.2	0.38	413.2	12.4	0.50
TN46FC		407.7	-2.2	-0.09	400.3	-0.5	-0.02
TPQN55		434.8	24.9	1.02	426.7	26.0	1.04
TR4LMG		441.3	31.4	1.28	425.6	24.9	0.99
TZUL37		394.3	-15.6	-0.64	390.0	-10.7	-0.43
U3DB8M		403.1	-6.9	-0.28	391.6	-9.1	-0.37
UFSYL2		431.1	21.1	0.86	422.5	21.8	0.87

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

WebCode	Data Flag	Sample J61			Sample J62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
UNTDQU		426.6	16.7	0.68	413.6	12.9	0.52
VP6S2G		401.7	-8.2	-0.34	398.6	-2.1	-0.08
VSH9SZ		420.1	10.1	0.41	408.6	7.8	0.31
X2D6NY		413.5	3.6	0.15	404.9	4.2	0.17
XFS45D		369.4	-40.5	-1.66	356.6	-44.1	-1.76
YHG43E		420.3	10.4	0.42	405.9	5.2	0.21
YV4JY2		408.9	-1.0	-0.04	393.9	-6.8	-0.27
ZB7U8L		409.7	-0.2	-0.01	397.7	-3.0	-0.12
ZGAUEG		414.4	4.4	0.18	404.4	3.6	0.15
ZHS1X6		428.4	18.5	0.76	422.0	21.3	0.85

Summary Statistics

Grand Means

409.93 ksi

400.73 ksi

Std Dev Btwn Labs

24.46 ksi

25.04 ksi

Statistics based on 67 of 74 reporting participants

Sample J61: ABS/PC & **Sample J62:** ABS/PC

Comments on assigned Data Flags for Test #720

54WCRN (X) - Inconsistent in testing between samples.

7M2213 (X) - High data for all samples. Also inconsistent in testing within both sample sets.

82MBJZ (X) - Inconsistent in testing between samples and inconsistent in testing within Sample J61.

8PBCNY (X) - Inconsistent in testing between samples, data for Sample J61 are low. Also inconsistent in testing within both sample sets.

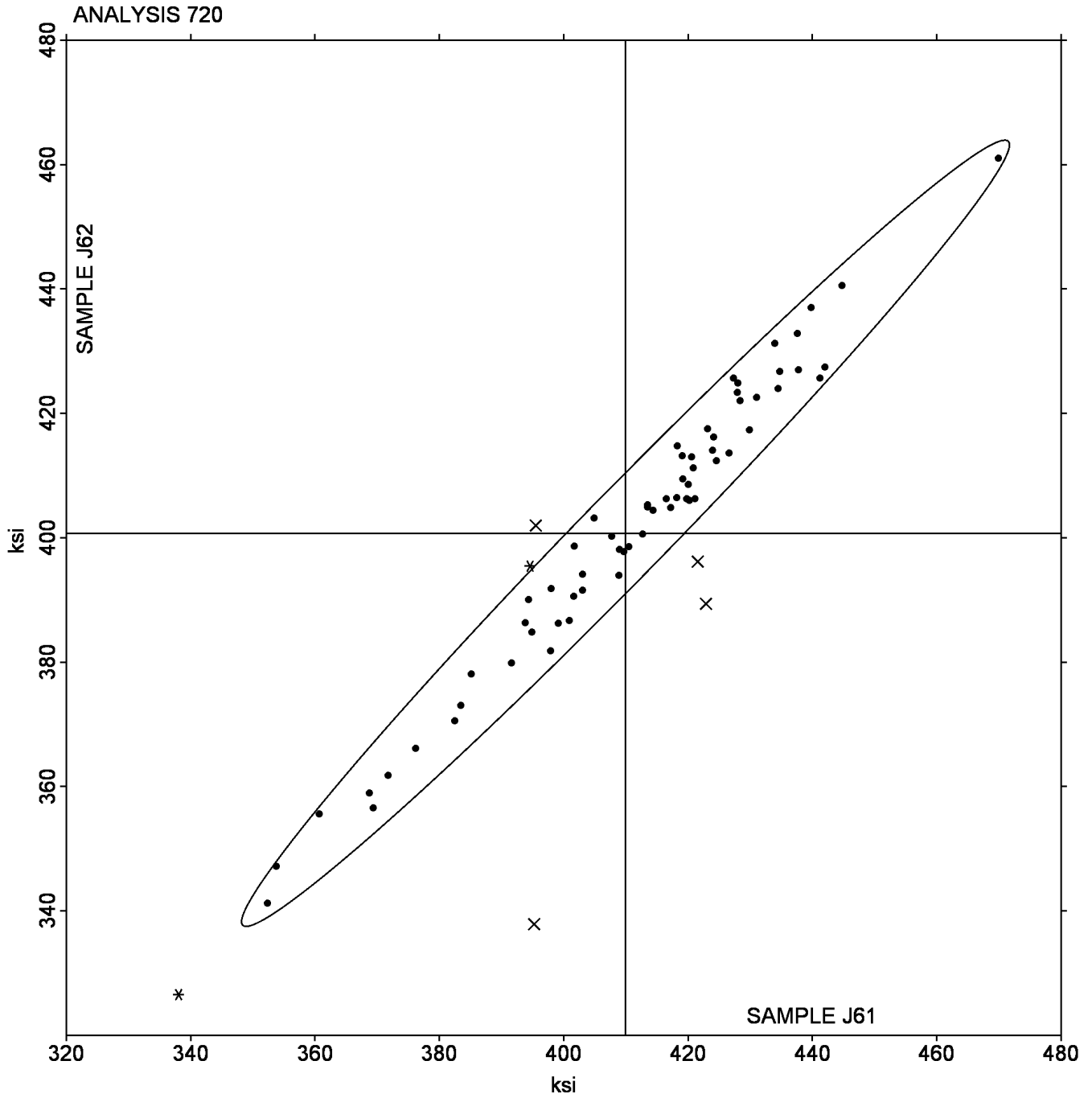
JZ7BC7 (X) - Inconsistent in testing between samples. Also inconsistent in testing within Sample J62.

P47AGM (X) - High data for all samples.

QM9KMJ (X) - Inconsistent in testing between samples.

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

Grand Mean Sample J61: 409.93 ksi Grand Mean Sample J62: 400.73 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 J61			Sample J62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
12ZZPY		13,448	-571	-1.02	13,688	-684	-1.04
1NRU3T		13,541	-478	-0.86	13,722	-650	-0.99
1TPTUF		13,281	-738	-1.32	13,671	-701	-1.07
1YAECG		13,838	-181	-0.32	14,441	69	0.11
28T5MM		14,500	482	0.86	14,844	472	0.72
2GAEB9		14,044	26	0.05	14,522	149	0.23
2U3WMU		14,624	606	1.09	14,758	386	0.59
2W6DGV	X	15,735	1,716	3.08	16,004	1,632	2.49
396HY9		13,744	-274	-0.49	14,045	-327	-0.50
3AECF8	*	12,527	-1,492	-2.68	12,478	-1,894	-2.89
56WN3P		13,174	-845	-1.51	13,259	-1,113	-1.70
5NM68G		14,904	885	1.59	15,470	1,098	1.68
6Z28T7		14,820	802	1.44	15,070	697	1.06
7JMEJ		14,417	398	0.71	14,846	474	0.72
8SP6BH		13,843	-175	-0.31	14,304	-68	-0.10
8THY5H		13,931	-88	-0.16	14,341	-32	-0.05
92TPAS		14,484	466	0.84	15,097	725	1.11
9X9N31		14,373	354	0.64	14,880	508	0.78
A2LAEX		14,156	137	0.25	14,618	246	0.38
APVPLN		14,084	65	0.12	14,610	238	0.36
BC1SGT		14,539	520	0.93	14,916	544	0.83
C4Q5AT		13,480	-539	-0.97	13,854	-518	-0.79
CEYDMC		13,736	-282	-0.51	14,039	-333	-0.51
CGELDD		13,990	-28	-0.05	14,362	-10	-0.02
DDT5CK		13,904	-115	-0.21	14,384	12	0.02
DFFPDH		14,460	442	0.79	14,749	376	0.57
DWP6FX	*	15,478	1,460	2.62	16,144	1,772	2.71
E2ALEM		14,443	425	0.76	14,765	393	0.60
F4VRA5		14,426	407	0.73	15,052	680	1.04
F9H7EV	X	14,000	-19	-0.03	13,800	-572	-0.87
G6479M		13,394	-624	-1.12	13,550	-822	-1.26
GKTBAC		13,547	-472	-0.85	13,724	-648	-0.99

**Plastics Interlaboratory Testing Program
Analysis 721**

Flexural Stress at 5% Strain - psi

WebCode	Data Flag	Sample J61			Sample J62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
HC183L		14,403	385	0.69	14,778	405	0.62
HNFRCY	*	13,634	-385	-0.69	13,489	-884	-1.35
HRP6CW		14,009	-9	-0.02	14,417	45	0.07
J4TDW7		14,636	617	1.11	14,972	600	0.92
K8XCCG		14,313	294	0.53	14,698	326	0.50
KN9QSU		14,486	467	0.84	15,026	654	1.00
LL7GQB		14,246	227	0.41	14,667	295	0.45
LQBG9N		14,504	485	0.87	14,811	439	0.67
NHV1WQ		14,756	738	1.32	15,082	710	1.08
QG8R3U		14,016	-3	0.00	14,323	-49	-0.07
R3HET4		13,736	-283	-0.51	13,852	-520	-0.79
S375YJ		13,720	-299	-0.54	13,940	-432	-0.66
S7J6ZE	X	12,520,000	12,505,981	22,427.32	14,520,000	14,505,628	22,145.28
SGD9KP		14,485	466	0.84	14,833	461	0.70
SS5UJE		13,470	-549	-0.98	13,869	-503	-0.77
SVTDQW		13,792	-226	-0.41	14,342	-31	-0.05
TBA8ET		13,578	-441	-0.79	13,791	-582	-0.89
UU2Z7J		12,790	-1,229	-2.20	13,078	-1,295	-1.98
VLWFF1		14,193	175	0.31	14,666	294	0.45
WRAX1N		13,447	-572	-1.03	13,857	-515	-0.79
X1LA2Q		14,607	588	1.05	15,009	637	0.97
X4WEKC		13,692	-326	-0.59	13,874	-498	-0.76
XU46JA		13,976	-42	-0.08	14,497	125	0.19
ZEA647		13,365	-654	-1.17	13,651	-722	-1.10

Summary Statistics	
Grand Means	
14,018.6 psi	14,372.1 psi
Std Dev Btwn Labs	
557.6 psi	655.0 psi
Statistics based on 53 of 56 reporting participants	

Sample J61: ABS/PC & Sample J62: ABS/PC

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

Comments on assigned Data Flags for Test #721

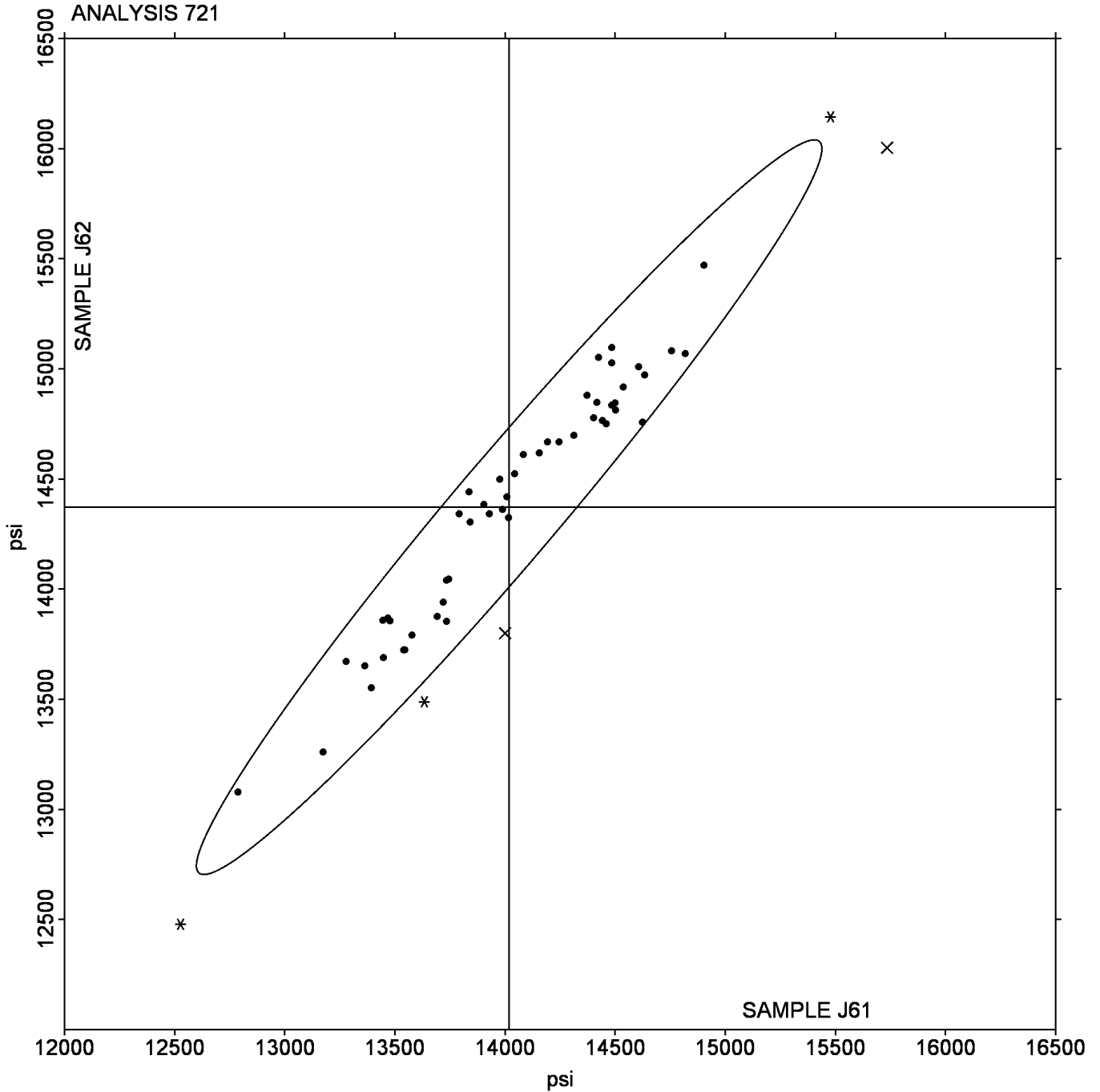
2W6DGV (X) - Inconsistent in testing between samples, data for Sample J61 are high.

F9H7EV (X) - Inconsistent in testing between samples and inconsistent in testing within Sample J62.

S7J6ZE (X) - Extreme data.

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

Grand Mean Sample J61: 14,018.56 psi Grand Mean Sample J62: 14,372.13 psi



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

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

WebCode	Data Flag	Sample J61			Sample J62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1FT5MP		13,577	-426	-0.87	13,935	-495	-0.86
1JHYSC		13,766	-237	-0.49	14,269	-162	-0.28
21KT52		14,447	444	0.91	15,046	615	1.07
25UDM7		13,743	-260	-0.53	14,133	-298	-0.52
2R3LQU	*	13,748	-255	-0.52	13,540	-890	-1.55
3YQQRL		13,489	-514	-1.05	13,996	-434	-0.75
4HJL5U	X	15,847	1,845	3.78	16,318	1,887	3.28
4M278M		14,716	713	1.46	15,306	875	1.52
57E227	M	15,515	1,512	3.10	No data reported for this sample		
6ETRAK		13,990	-12	-0.03	14,362	-69	-0.12
6KXNM5		14,053	50	0.10	14,643	212	0.37
8Y75FR		14,084	81	0.17	14,741	310	0.54
BQQLYP		14,167	165	0.34	14,469	38	0.07
DJSX2F		13,352	-651	-1.34	13,740	-691	-1.20
DLPVPZ		14,822	819	1.68	15,580	1,149	2.00
EJUFRB		14,032	30	0.06	14,600	169	0.29
F93U35		13,595	-407	-0.84	13,972	-459	-0.80
FTZJTL		14,566	563	1.16	15,171	740	1.29
FY6BLW		12,856	-1,147	-2.35	13,317	-1,114	-1.94
GB44RS		14,505	502	1.03	14,811	381	0.66
GHMLU2		14,561	558	1.14	15,049	618	1.07
GKBSCD		13,756	-247	-0.51	14,050	-381	-0.66
HJ3XQE		14,489	487	1.00	14,930	500	0.87
HUWE3U		14,000	-3	-0.01	14,000	-431	-0.75
JACB1E	X	403,980	389,977	799.97	393,780	379,349	659.12
JEMWZ1		14,023	21	0.04	14,459	28	0.05
JHCYG1		14,152	150	0.31	14,320	-111	-0.19
K8KFD6		14,498	495	1.02	14,865	434	0.75
LNFKL8		13,622	-381	-0.78	13,858	-573	-1.00
NGHHZZ		14,860	857	1.76	15,338	907	1.58
NNENQP	*	13,576	-427	-0.88	13,402	-1,029	-1.79
NR5V65		13,949	-54	-0.11	13,896	-535	-0.93

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

WebCode	Data Flag	Sample J61			Sample J62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
QCJKSL		13,740	-263	-0.54	14,020	-411	-0.71
RD7D2T		13,512	-491	-1.01	14,040	-391	-0.68
RJHYA7		14,297	294	0.60	14,826	395	0.69
RRTZXM		14,806	803	1.65	15,365	935	1.62
SAXZNY		14,388	386	0.79	15,169	738	1.28
U6UFK6		14,963	961	1.97	15,505	1,075	1.87
U8MSJW		13,954	-49	-0.10	14,650	219	0.38
VYEQ1Z		13,471	-532	-1.09	14,003	-427	-0.74
WQZVEP		13,515	-487	-1.00	14,090	-341	-0.59
WVS3VA		13,389	-613	-1.26	13,844	-587	-1.02
WWDGRT		13,797	-205	-0.42	14,300	-131	-0.23
X8BZDK		13,297	-706	-1.45	13,840	-591	-1.03
XNS3V8		13,497	-506	-1.04	14,047	-383	-0.67
XQ5KFR		13,792	-211	-0.43	14,413	-18	-0.03
XW2ZP1		13,912	-91	-0.19	14,476	45	0.08
ZBTBF2		14,562	559	1.15	15,049	619	1.07
ZVPNKU		14,239	236	0.48	14,379	-52	-0.09

Summary Statistics	
Grand Means	
14,002.7 psi	14,430.7 psi
Std Dev Btwn Labs	
487.5 psi	575.5 psi
Statistics based on 46 of 49 reporting participants	

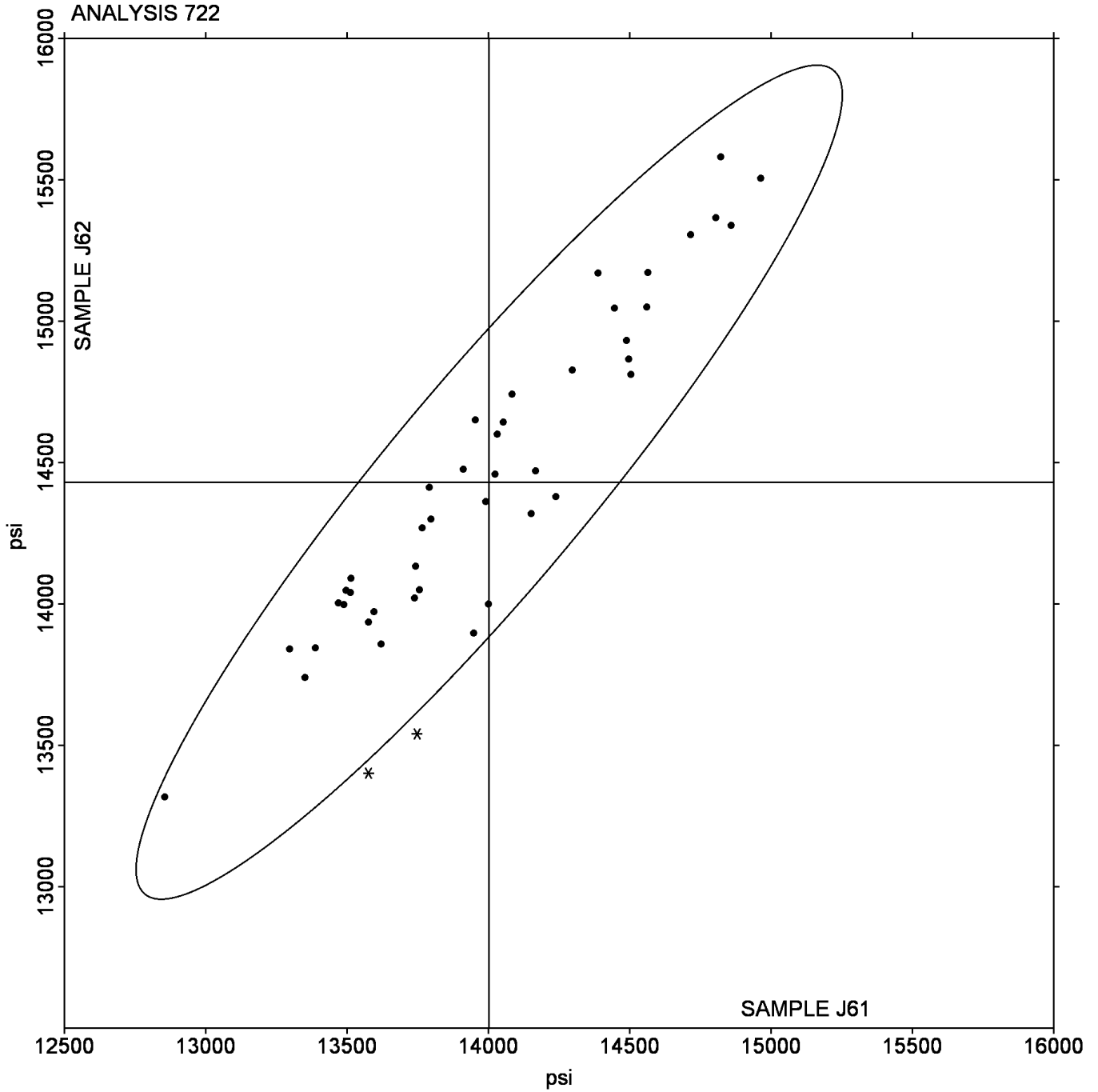
Sample J61: ABS/PC & Sample J62: ABS/PC

Comments on assigned Data Flags for Test #722

- 4HJL5U (X) - High data for all samples. Possible Systematic Error.
- 57E227 (M) - Laboratory did not submit data for Sample J62.
- JACB1E (X) - Extreme data.

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

Grand Mean Sample J61: 14,002.72 psi Grand Mean Sample J62: 14,430.69 psi



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

Plastics Interlaboratory Testing Program
Analysis 736
Flexural Modulus - MPa

WebCode	Data Flag	Sample K61			Sample K62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1J68TS		2,686	-16	-0.17	2,832	65	0.54
27F3RU	*	2,432	-271	-2.78	2,526	-241	-2.00
3Q2QL9		2,846	144	1.48	2,878	112	0.93
3S7UZC		2,856	154	1.58	2,846	80	0.66
4U9LDN		2,730	28	0.29	2,785	18	0.15
6293FE		2,733	31	0.32	2,812	45	0.38
6VH8AT		2,706	4	0.04	2,771	5	0.04
6YK41Q	X	2,828	126	1.29	2,720	-47	-0.39
75QQUJ		2,740	38	0.39	2,876	109	0.91
85CYTL		2,629	-74	-0.76	2,746	-21	-0.17
8ED6BD		2,600	-103	-1.06	2,580	-187	-1.55
97KAAM		2,773	71	0.73	2,899	132	1.10
9HHLTP		2,928	226	2.32	3,054	288	2.39
9NUHMP		2,774	72	0.74	2,838	71	0.59
9SCBGB	X	452	-2,251	-23.15	486	-2,281	-18.95
A1W5XC		2,546	-157	-1.61	2,521	-246	-2.04
A7W2LX		2,640	-62	-0.64	2,802	36	0.30
A8V3SN		2,699	-4	-0.04	2,810	43	0.36
AZHFUZ		2,674	-28	-0.29	2,735	-32	-0.27
BPXKCZ		2,598	-104	-1.07	2,625	-141	-1.17
BZX8XG		2,628	-74	-0.76	2,802	36	0.30
D5YQG8		2,754	52	0.53	2,803	36	0.30
DD8HQW	X	1,064	-1,638	-16.85	1,119	-1,647	-13.69
E4MMQ8		2,540	-162	-1.67	2,530	-237	-1.97
F2SJ3R		2,698	-4	-0.05	2,680	-87	-0.72
HZAYGU		2,630	-72	-0.75	2,664	-102	-0.85
K15N6E	X	5,572	2,869	29.51	5,824	3,058	25.41
LXWG5T		2,705	2	0.02	2,768	1	0.01
N6C163		2,665	-37	-0.39	2,724	-42	-0.35
NBS1QU		2,731	29	0.30	2,803	36	0.30
NEGQ9U		2,651	-51	-0.53	2,639	-127	-1.06
NQXM6L		2,840	137	1.41	2,919	153	1.27

Plastics Interlaboratory Testing Program
Analysis 736
Flexural Modulus - MPa

WebCode	Data Flag	Sample K61			Sample K62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
NT2LRX		2,839	136	1.40	2,875	109	0.90
PC33BT		2,578	-124	-1.28	2,616	-151	-1.25
PPBUT7		2,656	-46	-0.47	2,734	-33	-0.27
QHMTQZ		2,765	63	0.65	2,855	88	0.73
QMDKXX		2,752	50	0.51	2,799	32	0.27
QRKBPA		2,799	96	0.99	2,904	137	1.14
QWCG8D		2,598	-104	-1.07	2,710	-57	-0.47
RWDN7C		2,770	68	0.70	2,857	90	0.75
SGEFYX		2,748	45	0.47	2,857	91	0.76
T4H13T		2,686	-17	-0.17	2,744	-23	-0.19
UAKS8W		2,767	65	0.67	2,830	64	0.53
VDLR29		2,589	-114	-1.17	2,552	-214	-1.78
VUKTKL		2,560	-142	-1.46	2,529	-238	-1.98
W956QY		2,733	31	0.32	2,812	46	0.38
WSSR2X		2,749	47	0.48	2,798	31	0.26
YKN6UZ		2,749	46	0.48	2,833	67	0.55
YV8B14		2,737	35	0.36	2,810	44	0.36
Z928S1		2,803	101	1.04	2,877	111	0.92

Summary Statistics

Grand Means

2,702.5 MPa

2,766.5 MPa

Std Dev Btwn Labs

97.2 MPa

120.3 MPa

Statistics based on 46 of 50 reporting participants

Sample K61: ABS/PC & Sample K62: ABS/PC

Comments on assigned Data Flags for Test #736

6YK41Q (X) - Inconsistent in testing between samples.

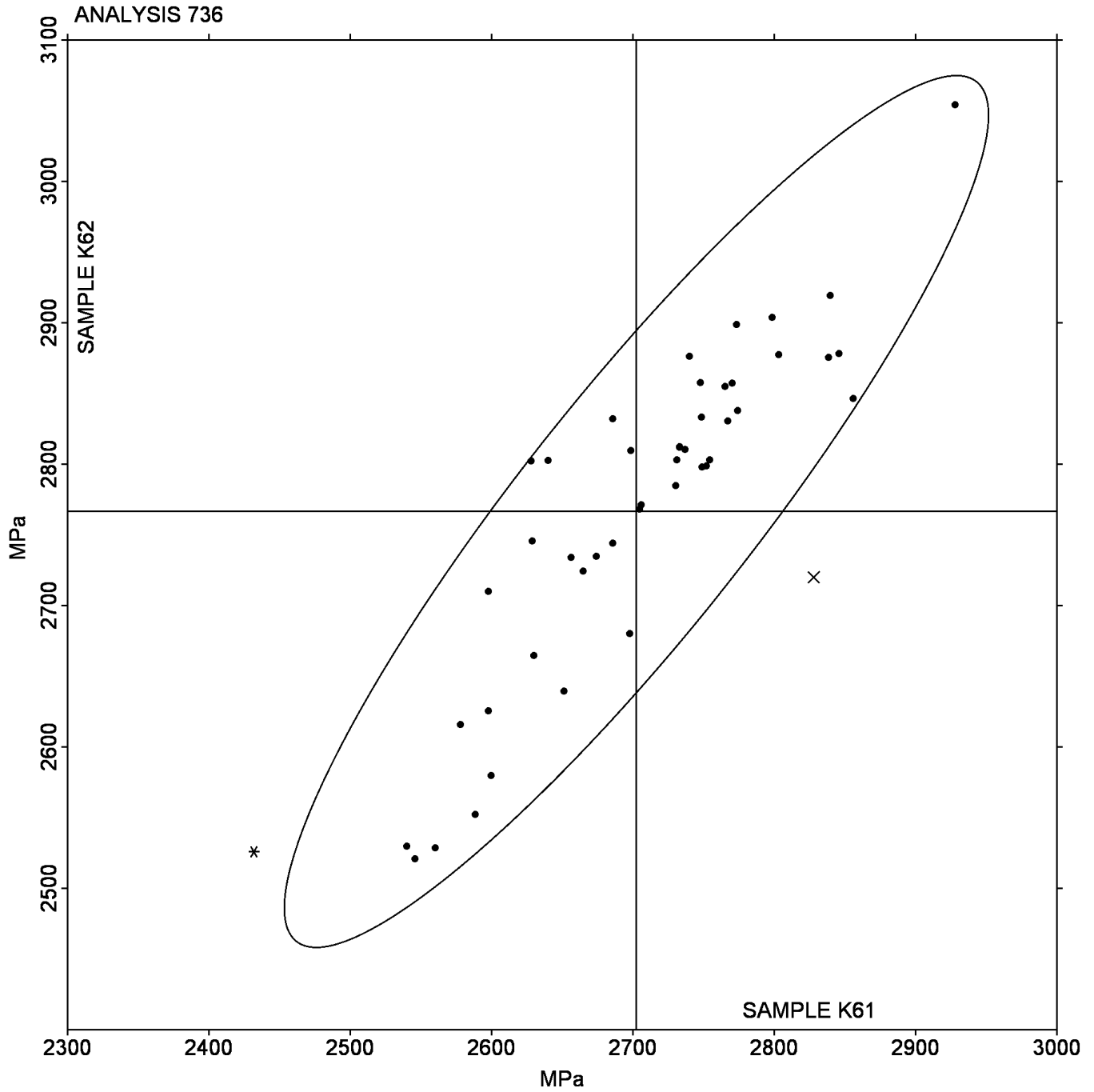
9SCBGB (X) - Low data for all samples.

DD8HQW (X) - Low data for all samples.

K15N6E (X) - High data for all samples.

Plastics Interlaboratory Testing Program
Analysis 736
Flexural Modulus - MPa

Grand Mean Sample K61: 2,702.45 MPa Grand Mean Sample K62: 2,766.52 MPa



**Plastics Interlaboratory Testing Program
Analysis 737**

Flexural Stress at 3.5% Strain - MPa

WebCode	Data Flag	Sample K61			Sample K62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1AE8DM		81.52	-4.12	-2.15	83.68	-5.03	-1.94
1NLNGY		84.91	-0.73	-0.38	88.56	-0.16	-0.06
1WWZH3		82.14	-3.50	-1.82	85.10	-3.61	-1.39
43L2JJ		84.98	-0.66	-0.34	86.92	-1.79	-0.69
4Z5B1M		86.44	0.80	0.42	91.05	2.34	0.90
5V4MWK		86.26	0.62	0.32	89.54	0.83	0.32
784LYV		85.16	-0.48	-0.25	89.28	0.57	0.22
8KU1MQ	*	90.20	4.56	2.38	96.03	7.32	2.82
A98QBM		86.87	1.23	0.64	89.91	1.20	0.46
AUJGQA		88.41	2.77	1.44	90.95	2.24	0.86
AVGMAB		85.32	-0.32	-0.17	86.44	-2.27	-0.88
B9K7NM		86.60	0.96	0.50	90.37	1.66	0.64
CEKYKX	X	37.99	-47.65	-24.83	38.64	-50.07	-19.29
ETQLC4		84.22	-1.42	-0.74	86.14	-2.57	-0.99
EVPNV8		85.03	-0.61	-0.32	86.76	-1.95	-0.75
F3E78Z		85.11	-0.53	-0.28	87.23	-1.49	-0.57
F6N6Y1		82.32	-3.32	-1.73	83.80	-4.91	-1.89
F9TY4D		85.25	-0.39	-0.20	89.54	0.83	0.32
FG5VTZ		89.26	3.62	1.88	91.46	2.75	1.06
HUKG9A	*	86.13	0.49	0.25	92.49	3.78	1.46
KLBEM3		85.15	-0.49	-0.26	88.10	-0.61	-0.24
LR9PTT		86.39	0.75	0.39	89.55	0.84	0.32
M8HV53		84.62	-1.02	-0.53	89.05	0.34	0.13
MTMCDJ		84.81	-0.83	-0.43	85.77	-2.94	-1.13
MWAAZ9		86.17	0.53	0.28	88.87	0.15	0.06
ND8PF8		85.19	-0.45	-0.23	88.92	0.21	0.08
NVX6TP		82.45	-3.19	-1.66	85.16	-3.55	-1.37
P4S1QS		84.35	-1.29	-0.67	87.16	-1.55	-0.60
Q6DYS3		86.73	1.09	0.57	90.57	1.86	0.72
QABTVJ		87.14	1.50	0.78	91.08	2.37	0.91
RJHKKL		86.84	1.20	0.62	89.58	0.87	0.33
SKQZRR		85.42	-0.22	-0.11	88.08	-0.63	-0.24

**Plastics Interlaboratory Testing Program
Analysis 737**

Flexural Stress at 3.5% Strain - MPa

WebCode	Data Flag	Sample K61			Sample K62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
SYPFLD		85.93	0.29	0.15	88.56	-0.15	-0.06
TBW4CT		87.50	1.86	0.97	90.97	2.26	0.87
TPKS51	X	89.31	3.67	1.91	84.61	-4.10	-1.58
UK7QZ2		88.69	3.05	1.59	91.69	2.98	1.15
Z492ZS		83.92	-1.72	-0.90	86.54	-2.17	-0.84

Summary Statistics

Grand Means

85.641 MPa

88.712 MPa

Std Dev Btwn Labs

1.919 MPa

2.596 MPa

Statistics based on 35 of 37 reporting participants

Sample K61: ABS/PC & **Sample K62:** ABS/PC

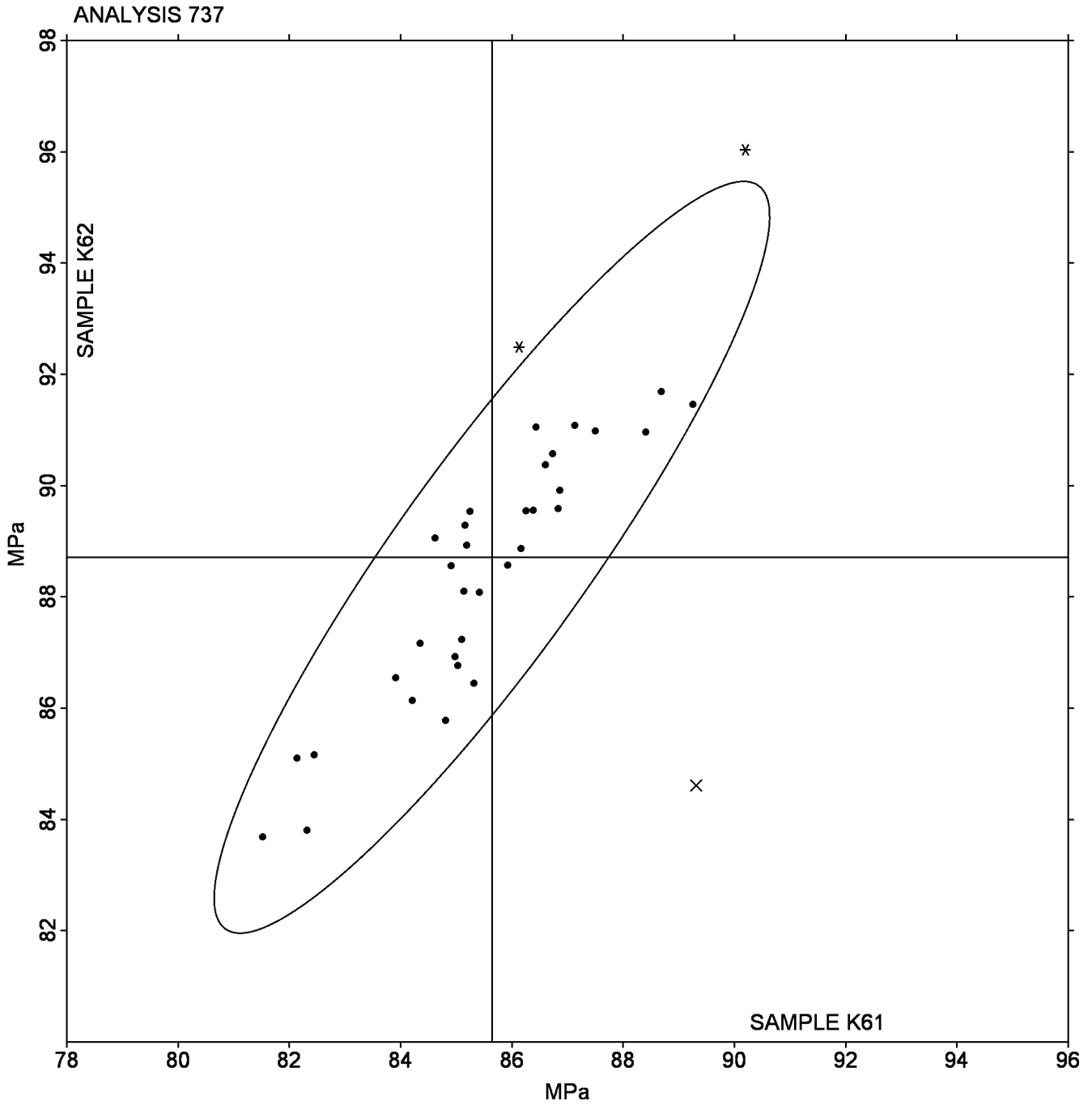
Comments on assigned Data Flags for Test #737

CEKYKX (X) - Low data for all samples.

TPKS51 (X) - Inconsistent in testing between samples.

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

Grand Mean Sample K61: 85.641 MPa Grand Mean Sample K62: 88.712 MPa



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

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

WebCode	Data Flag	Sample K61			Sample K62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
154N9G		93.91	-1.35	-0.95	94.27	-2.55	-1.47
1UQHJ7		94.42	-0.84	-0.59	96.42	-0.40	-0.23
3CXFTV	X	103.14	7.88	5.50	106.74	9.92	5.73
5LMVWF		98.61	3.35	2.34	99.00	2.18	1.26
5PZ88H		95.52	0.26	0.18	96.28	-0.54	-0.31
8UXJTK		96.76	1.50	1.05	97.74	0.92	0.53
A1WDAJ		94.12	-1.14	-0.80	96.69	-0.13	-0.07
AC7I52		94.28	-0.98	-0.69	95.62	-1.20	-0.69
BCF5QY	X	63.79	-31.47	-21.99	65.03	-31.79	-18.35
E2PFVH		95.12	-0.14	-0.10	96.54	-0.28	-0.16
ECUYMJ		95.14	-0.12	-0.09	97.22	0.40	0.23
EYF3LP		94.86	-0.40	-0.28	97.39	0.58	0.33
FD7UQ3		97.64	2.38	1.66	98.80	1.99	1.15
HAMUCE		96.33	1.07	0.75	97.95	1.14	0.66
HPTDXY		94.65	-0.61	-0.43	95.77	-1.05	-0.60
HSTM28		94.92	-0.34	-0.24	96.88	0.06	0.04
JK8V71		92.95	-2.31	-1.61	94.43	-2.39	-1.38
M1L4D1		94.15	-1.11	-0.78	95.33	-1.49	-0.86
NE1K3G		93.34	-1.92	-1.34	93.31	-3.51	-2.02
Q7YFGW		96.51	1.25	0.87	96.69	-0.13	-0.07
U3FJF4		94.77	-0.49	-0.34	97.56	0.75	0.43
UM6SCY	*	95.65	0.39	0.27	100.40	3.58	2.07
UW3AJM		93.75	-1.51	-1.05	95.86	-0.95	-0.55
UXAB2R		97.32	2.06	1.44	99.41	2.59	1.50
VCYZFU		96.08	0.82	0.57	97.98	1.16	0.67
WPAW9K		96.85	1.59	1.11	98.72	1.91	1.10
WSVNUM		95.68	0.42	0.29	96.93	0.11	0.06
ZLWYGS	X	88.75	-6.51	-4.55	93.57	-3.25	-1.88
ZU7RZG		93.46	-1.80	-1.26	94.02	-2.80	-1.61

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

Summary Statistics	
Grand Means	
95.261 MPa	96.815 MPa
Std Dev Btwn Labs	
1.431 MPa	1.732 MPa
Statistics based on 26 of 29 reporting participants	

Sample K61: ABS/PC & **Sample K62:** ABS/PC

Comments on assigned Data Flags for Test #738

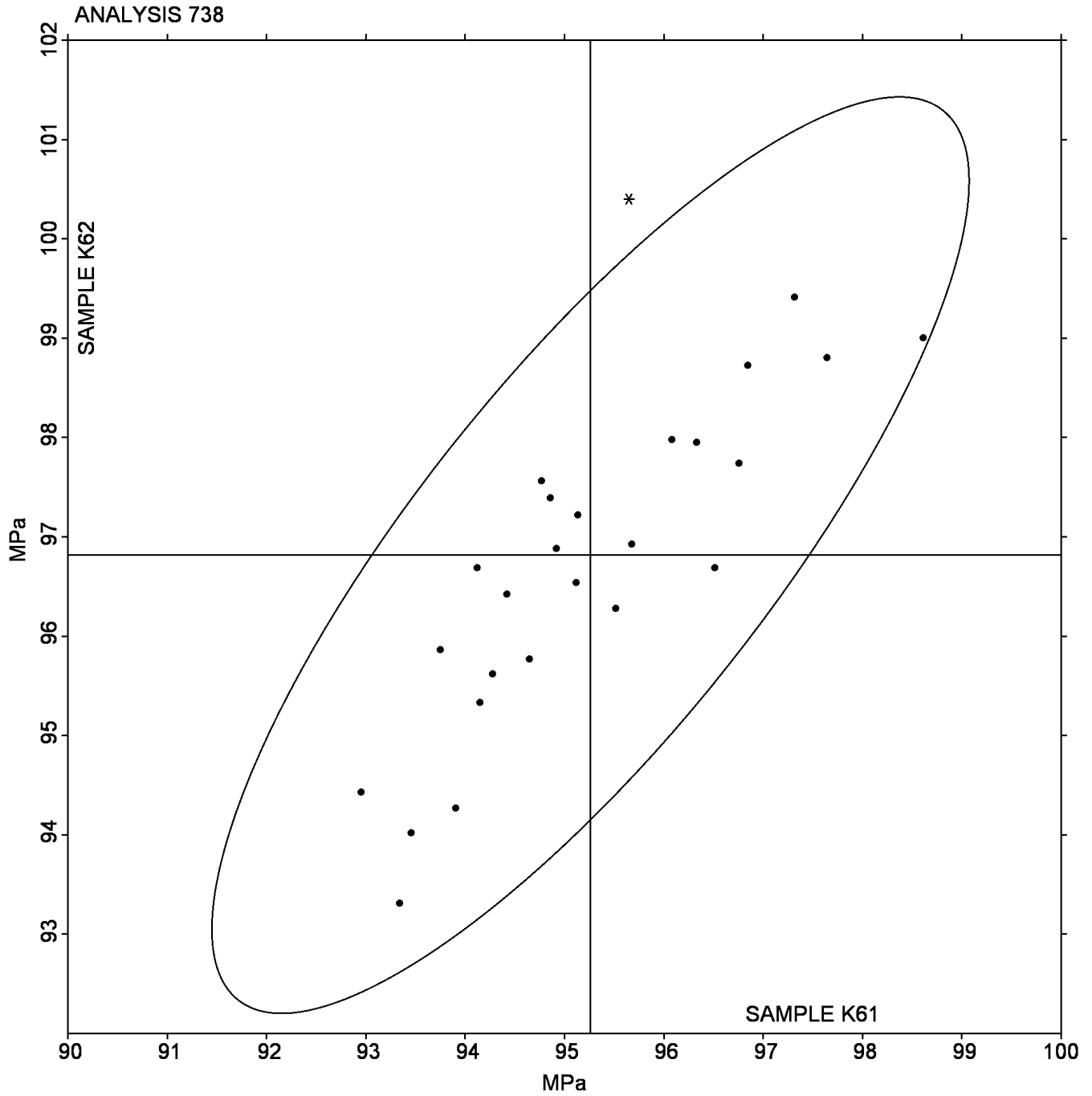
3CXFTV (X) - High data for all samples.

BCF5QY (X) - Low data for all samples.

ZLWYGS (X) - Inconsistent in testing between samples, data for Sample K61 are low.

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

Grand Mean Sample K61: 95.261 MPa Grand Mean Sample K62: 96.815 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 S61			Sample S62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
13G58H		9.01	-1.17	-1.23	11.83	-1.40	-1.48	CE
1ADVXY		9.62	-0.56	-0.58	13.08	-0.14	-0.15	TO
1NJXAH		10.29	0.10	0.11	13.99	0.76	0.81	TM
26F1R4		9.85	-0.34	-0.35	13.32	0.09	0.10	CS
2HA2WY		10.40	0.22	0.23	13.36	0.14	0.14	CE
2U2QXZ		11.58	1.39	1.46	15.40	2.18	2.31	TO
3K9UAP		11.20	1.02	1.07	12.68	-0.55	-0.58	TO
4UUNHY		10.95	0.76	0.80	13.25	0.03	0.03	TO
592PKM		9.92	-0.27	-0.28	12.88	-0.34	-0.36	TO
61TGF4		10.10	-0.08	-0.08	12.36	-0.86	-0.91	TO
6B56EN		11.12	0.94	0.99	13.96	0.73	0.78	TM
6PZY1Y		12.26	2.08	2.18	14.20	0.98	1.04	TO
7QMWUN		10.18	0.00	0.00	13.07	-0.15	-0.16	TO
7SL2PN		10.23	0.05	0.05	13.46	0.24	0.25	TO
7V8HB3		8.34	-1.84	-1.92	11.50	-1.73	-1.83	CE
89K9MM		8.99	-1.20	-1.25	11.37	-1.85	-1.96	CS
8CHJ6H		10.90	0.72	0.75	13.99	0.77	0.81	TM
8NMG75	X	13.09	2.91	3.05	9.51	-3.72	-3.94	TM
8PHGKP	X	13.27	3.09	3.23	17.14	3.91	4.15	TM
8SPQ2L		9.96	-0.22	-0.23	12.52	-0.70	-0.74	WY
8W7ENP		9.64	-0.54	-0.57	13.08	-0.14	-0.15	TO
9D48JM		11.30	1.11	1.17	12.68	-0.54	-0.58	TM
9HEQXC	*	8.81	-1.37	-1.43	13.63	0.40	0.43	TM
9NR5PU		10.57	0.39	0.41	13.16	-0.06	-0.07	TO
9T574K	X	13.76	3.58	3.75	15.05	1.82	1.93	TO
9UWUEG		11.30	1.12	1.17	14.06	0.84	0.89	CE
AZS76H		9.67	-0.51	-0.53	12.67	-0.56	-0.59	TM
B64C9E		10.71	0.53	0.56	14.66	1.43	1.52	CE
BC6CFA		9.95	-0.24	-0.25	13.27	0.05	0.05	TY
BFCBWH		9.29	-0.90	-0.94	13.19	-0.03	-0.03	TO
C15BDR		9.50	-0.68	-0.71	13.13	-0.10	-0.10	TO
CB8WUK		9.77	-0.41	-0.43	13.74	0.51	0.54	TM

**Plastics Interlaboratory Testing Program
Analysis 790**

Notched Izod Impact - ft.lbf/in

WebCode	Data Flag	Sample S61			Sample S62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
CU9TB8		10.94	0.75	0.79	13.84	0.61	0.65	TO
DDRHV7		10.07	-0.11	-0.11	14.44	1.22	1.29	TM
DZWYMP		9.59	-0.60	-0.62	13.15	-0.08	-0.08	TO
E2URSD		10.13	-0.05	-0.05	13.52	0.30	0.31	CE
EC1KPD		9.90	-0.28	-0.29	12.87	-0.35	-0.37	WZ
EE23C1		11.53	1.35	1.41	13.80	0.58	0.61	TM
FD7CQ6		11.06	0.88	0.92	13.89	0.66	0.70	TO
FH7ZK1	*	12.45	2.27	2.37	15.68	2.46	2.60	TM
G4XPAR		10.73	0.55	0.57	13.50	0.27	0.29	TM
HFH2WU		8.97	-1.21	-1.27	11.65	-1.57	-1.67	BA
HJAFTQ		9.89	-0.30	-0.31	12.90	-0.33	-0.35	CE
J6EK2Q	X	3.48	-6.70	-7.02	4.64	-8.59	-9.10	TM
KGAPRN		9.81	-0.37	-0.39	11.78	-1.44	-1.53	TM
LT5D6N		10.27	0.09	0.09	13.81	0.59	0.63	XX
MLBS6L		9.58	-0.61	-0.63	12.90	-0.33	-0.35	CE
MXJMEQ		10.24	0.05	0.06	14.05	0.82	0.87	TM
NAMPFT		8.97	-1.22	-1.27	11.95	-1.28	-1.35	XX
NLHPLW		9.28	-0.91	-0.95	12.50	-0.72	-0.77	TM
NZ1UWJ		10.61	0.43	0.45	13.39	0.17	0.18	TM
P8359E		8.48	-1.70	-1.78	11.73	-1.49	-1.58	TO
PMBR9Q		11.70	1.52	1.59	13.98	0.76	0.80	TM
RFEEX7		9.94	-0.24	-0.25	13.62	0.40	0.42	TM
RH4Y8X		10.10	-0.08	-0.09	13.23	0.01	0.01	CE
RK67QT		10.56	0.38	0.39	13.28	0.05	0.06	CE
RYJSN2	*	7.87	-2.31	-2.42	12.68	-0.55	-0.58	TM
SDNVV1		10.09	-0.09	-0.09	13.26	0.04	0.04	TO
SE7VVA	X	10.61	0.43	0.45	11.03	-2.20	-2.33	TM
SFBK1Z		9.24	-0.94	-0.98	12.78	-0.44	-0.47	TO
SRWTLM		11.15	0.97	1.01	15.26	2.04	2.16	TO
SSZ2LL		9.95	-0.23	-0.24	13.07	-0.15	-0.16	TO
ST4CX9		10.64	0.46	0.48	13.48	0.26	0.27	BA
T2K8VF		10.54	0.36	0.37	13.54	0.31	0.33	XX

**Plastics Interlaboratory Testing Program
Analysis 790**

Notched Izod Impact - ft.lbf/in

WebCode	Data Flag	Sample S61			Sample S62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
T6KXBA		10.12	-0.06	-0.06	13.20	-0.02	-0.03	TO
U3U5P6		8.74	-1.45	-1.51	11.33	-1.89	-2.01	CE
UHBFEY		10.48	0.30	0.32	12.67	-0.56	-0.59	TO
UNPPAH		10.19	0.01	0.01	12.74	-0.48	-0.51	TO
UR6ZW2	*	12.80	2.61	2.74	15.73	2.51	2.66	XX
UXDC76		10.20	0.02	0.02	13.07	-0.15	-0.16	TM
V4W25L		9.22	-0.96	-1.00	11.30	-1.92	-2.04	TM
VRZGMW	X	6.55	-3.64	-3.81	10.45	-2.78	-2.94	TM
VYZCQ9	M	No data reported for this sample			11.65	-1.57	-1.66	TM
VZ4SEL		11.68	1.50	1.57	14.16	0.94	1.00	BA
XBK5CS		10.93	0.75	0.79	13.89	0.66	0.70	WZ
XG161K		9.64	-0.54	-0.57	13.11	-0.12	-0.13	TM
XRZBZGD		9.56	-0.62	-0.65	13.31	0.08	0.09	TO
YWGK73		10.87	0.69	0.72	13.42	0.19	0.21	TM
YWWELA	X	1.28	-8.90	-9.32	1.67	-11.56	-12.25	TO
YXQK55		9.85	-0.33	-0.35	12.90	-0.33	-0.35	TM
Z3S8ZH		10.19	0.01	0.01	11.74	-1.49	-1.58	TO
ZFSLTP		8.40	-1.78	-1.86	12.15	-1.08	-1.14	CE
ZXXC1R		11.09	0.91	0.95	14.08	0.86	0.91	TM

Summary Statistics	
Grand Means	
10.182 ft.lbf/in	13.224 ft.lbf/in
Std Dev Btwn Labs	
0.955 ft.lbf/in	0.943 ft.lbf/in
Statistics based on 75 of 83 reporting participants	

Sample S61: ABS/PC & Sample S62: ABS/PC

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

Comments on assigned Data Flags for Test #790

8NMG75 (X) - Inconsistent in testing between samples. Data appear to be transposed between samples.

8PHGKP (X) - High data for all samples.

9T574K (X) - Inconsistent in testing between samples, data for Sample S61 are high.

J6EK2Q (X) - Low data for all samples.

SE7WA (X) - Inconsistent in testing between samples.

VRZGMW (X) - Low data for all samples.

VYZCQ9 (M) - Laboratory did not submit data for Sample S61.

YWWELA (X) - Low data for all samples.

Instrument Code List as Reported by the Labs

(BA) - Baldwin

(CE) - Ceast

(CS) - CSI

(TM) - TMI

(TO) - Tinius Olsen

(TY) - Toyoseiki

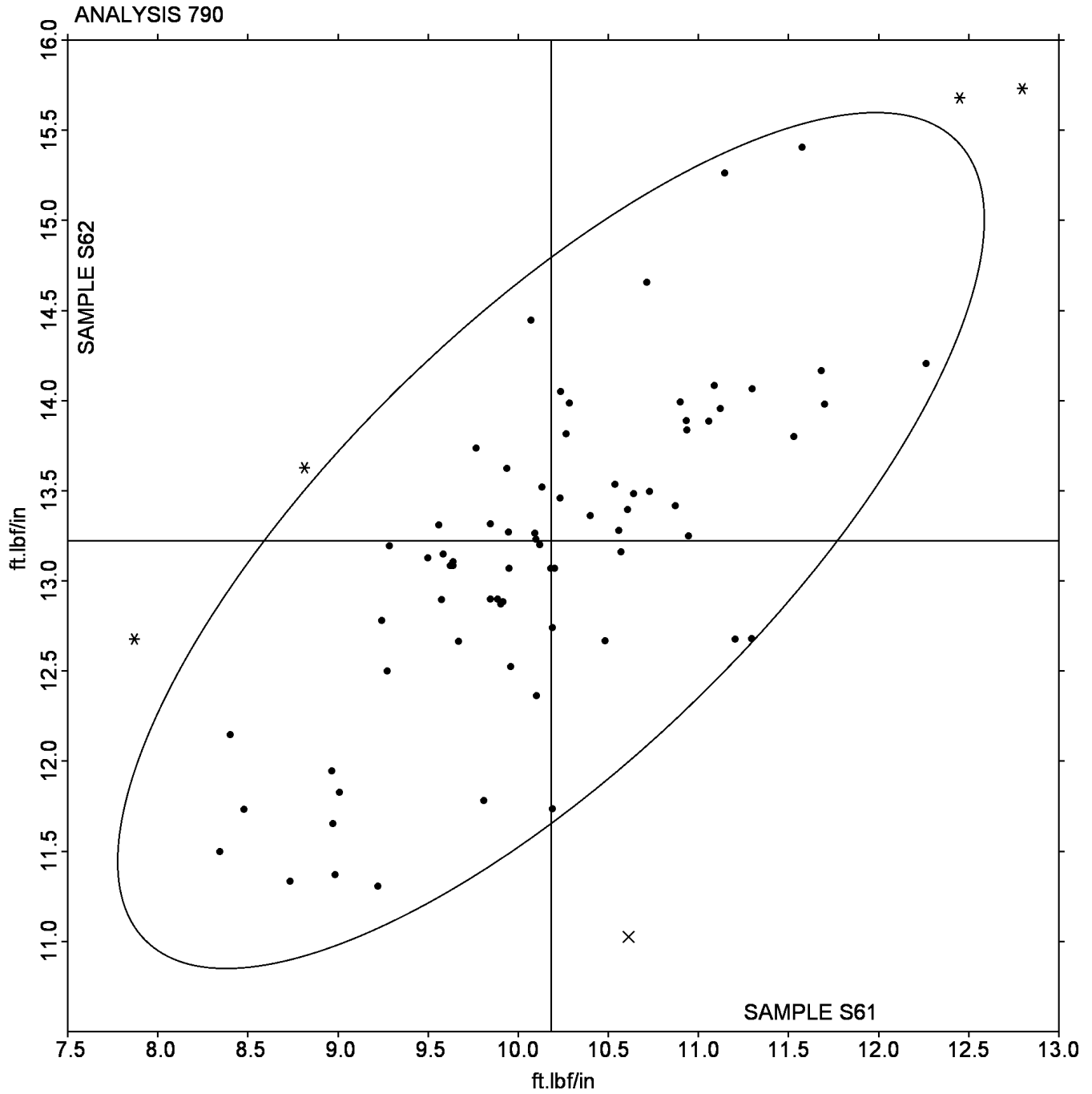
(WY) - Yasuda Seiki

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample S61: 10.182 ft.lbf/in Grand Mean Sample S62: 13.224 ft.lbf/in



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

Plastics Interlaboratory Testing Program
Analysis 792

Notched Charpy Impact - kJ/m²

WebCode	Data Flag	Sample M61			Sample M62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
16W6Z3		20.74	-1.98	-1.52	23.13	0.99	0.96	CE
1K7EHM		22.58	-0.14	-0.11	20.20	-1.95	-1.88	PO
1U1LTR		21.95	-0.76	-0.59	21.27	-0.87	-0.84	TO
41KKCM		23.42	0.70	0.54	23.49	1.34	1.30	TM
51M4RW		22.64	-0.08	-0.06	21.42	-0.73	-0.70	TM
59TRXB		22.77	0.05	0.04	19.94	-2.20	-2.12	CE
8D1W1S		23.03	0.32	0.24	21.94	-0.20	-0.19	TO
8XZAAX		22.06	-0.66	-0.50	21.47	-0.67	-0.65	TM
ATYCMX		22.28	-0.43	-0.33	22.84	0.70	0.67	SA
C5HJTX		19.62	-3.09	-2.37	21.43	-0.71	-0.69	TO
DSGJYD		22.64	-0.08	-0.06	21.96	-0.19	-0.18	CE
F26KSU	X	16.51	-6.21	-4.76	16.46	-5.69	-5.49	CE
F7AYGW		21.14	-1.57	-1.21	22.30	0.16	0.15	TO
G8WXYZ		24.93	2.21	1.70	23.47	1.33	1.28	TM
GJFPQC		25.45	2.73	2.10	23.40	1.25	1.21	XX
HL148J	X	18.87	-3.84	-2.95	17.15	-4.99	-4.82	TM
HVP4W8		23.96	1.25	0.96	22.65	0.50	0.49	XX
J79B21		22.11	-0.60	-0.46	21.40	-0.74	-0.71	TM
JLQY6M		22.14	-0.57	-0.44	22.91	0.76	0.74	TM
JMGMEM		23.45	0.74	0.57	21.43	-0.72	-0.69	CE
KFEHFH		21.43	-1.28	-0.98	21.71	-0.44	-0.42	TM
LLPMWP		24.20	1.48	1.14	21.87	-0.27	-0.26	CE
LLYMM4		22.48	-0.23	-0.18	22.46	0.32	0.31	TM
MAE137		21.37	-1.34	-1.03	21.28	-0.86	-0.83	WZ
MCRVPZ		23.12	0.41	0.31	22.98	0.84	0.81	TY
N8K7EX		22.02	-0.69	-0.53	22.17	0.03	0.03	TO
PHP2JV	X	18.71	-4.00	-3.07	17.83	-4.31	-4.17	TM
RL6LFF		25.08	2.37	1.82	24.47	2.33	2.25	CE
RZ5KDK		22.30	-0.41	-0.32	21.12	-1.02	-0.99	CE
S6YAYT		23.50	0.79	0.60	24.54	2.40	2.32	TM
SK6QPW		24.30	1.59	1.22	20.78	-1.37	-1.32	CE
TPMNR		22.30	-0.41	-0.32	21.74	-0.41	-0.39	TM

**Plastics Interlaboratory Testing Program
Analysis 792**

Notched Charpy Impact - kJ/m²

WebCode	Data Flag	Sample M61			Sample M62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
TUBDDU		22.11	-0.61	-0.46	21.99	-0.15	-0.15	TO
TVYNZ9	*	19.48	-3.23	-2.48	22.99	0.85	0.82	TO
TWG8PK		23.02	0.30	0.23	21.98	-0.17	-0.16	GR
V6DA9M		23.66	0.95	0.73	23.14	1.00	0.96	WZ
WBVKKX		23.97	1.26	0.97	22.05	-0.10	-0.09	TM
WUV75Z		22.52	-0.19	-0.15	21.17	-0.97	-0.94	XX
Y2HEKC		23.89	1.18	0.91	20.94	-1.20	-1.16	KF
Y33W5X		22.11	-0.60	-0.46	22.04	-0.10	-0.10	CE
YTYJV3		23.66	0.95	0.73	23.13	0.99	0.95	TM
YYPGGR		22.42	-0.30	-0.23	22.40	0.26	0.25	TO

Summary Statistics

Grand Means

22.714 kJ/m²

22.144 kJ/m²

Std Dev Btwn Labs

1.303 kJ/m²

1.035 kJ/m²

Statistics based on 39 of 42 reporting participants

Sample M61: HIPS & Sample M62: HIPS

Comments on assigned Data Flags for Test #792

F26KSU (X) - Low data for all samples.

HL148J (X) - Low data for all samples.

PHP2JV (X) - Low data for all samples.

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

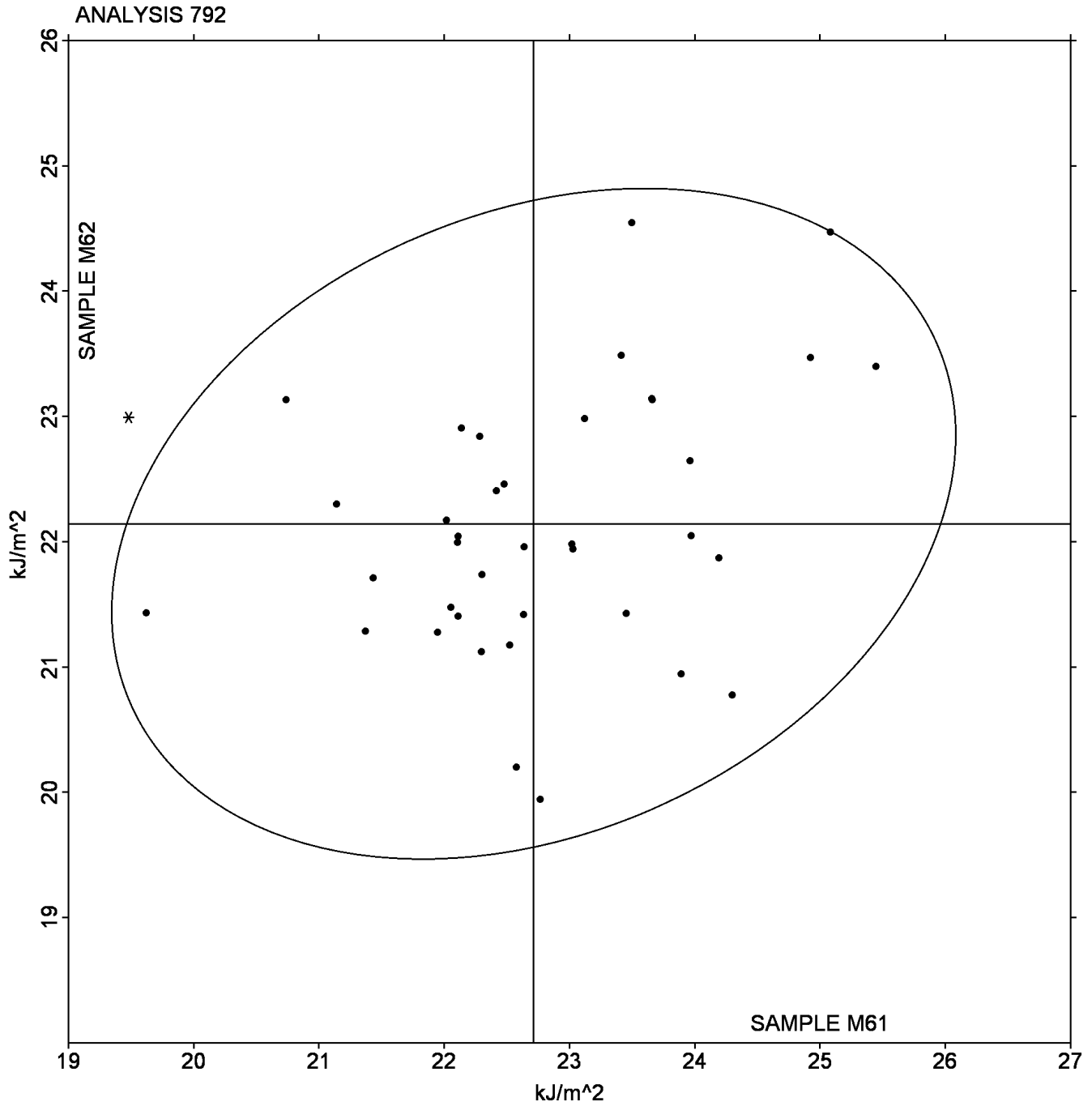
(TY) - Toyoseiki

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample M61: 22.714 kJ/m^2 Grand Mean Sample M62: 22.144 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 E61			Sample E62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2UGL8T		74.80	-1.55	-1.65	87.45	-1.45	-1.35	CE
3X8Q6K	X	81.25	4.90	5.20	94.82	5.92	5.49	TO
5AM5CT		78.25	1.90	2.02	91.18	2.27	2.11	CE
5EE74M	*	76.90	0.55	0.58	90.98	2.07	1.92	DN
7586WK		75.68	-0.68	-0.72	88.43	-0.48	-0.44	TO
AG3B2F		75.20	-1.15	-1.22	87.68	-1.23	-1.14	CE
B9VAYZ	M	75.78	-0.58	-0.61	No data reported for this sample			TO
DX8TGC		76.30	-0.05	-0.05	87.98	-0.93	-0.86	XX
DXAHQF		78.43	2.07	2.20	90.45	1.55	1.44	AT
E53SFK		76.45	0.10	0.10	89.65	0.75	0.69	AT
FPPEAY		76.83	0.47	0.50	89.40	0.50	0.46	CE
G8RA38		75.05	-1.30	-1.38	88.23	-0.68	-0.63	CE
GUSRJJ		76.05	-0.30	-0.32	88.38	-0.53	-0.49	XX
HL3Q86		75.58	-0.78	-0.82	88.48	-0.43	-0.40	XX
HPZZUK	X	80.98	4.62	4.91	91.95	3.05	2.83	TO
HZ3KL1		75.98	-0.38	-0.40	89.75	0.85	0.79	EM
J5RRET		77.80	1.45	1.54	90.45	1.55	1.44	AT
K8E68K		75.58	-0.78	-0.82	87.50	-1.40	-1.30	DN
KEK9CL	X	87.93	11.57	12.29	101.25	12.35	11.46	DN
KJPVL5		75.88	-0.48	-0.51	88.18	-0.73	-0.68	TO
KKPDYC		77.50	1.15	1.22	88.75	-0.15	-0.14	XX
L19GMS		75.43	-0.93	-0.98	88.25	-0.65	-0.61	EM
L66H5E		77.25	0.90	0.95	89.60	0.70	0.65	XX
LFD3H9		76.68	0.32	0.34	89.13	0.22	0.21	AT
N1U4L7		75.20	-1.15	-1.22	87.28	-1.63	-1.51	RO
PMSR9G		76.20	-0.15	-0.16	88.05	-0.85	-0.79	CE
Q14QE7		75.45	-0.90	-0.96	88.33	-0.58	-0.54	TO
QSY87F		75.73	-0.63	-0.66	87.40	-1.50	-1.39	AT
QZMTUV		76.08	-0.28	-0.29	89.20	0.30	0.28	TO
RDC9N7		77.13	0.77	0.82	90.00	1.10	1.02	XX
RJTHKX	X	76.50	0.15	0.16	86.63	-2.28	-2.11	TO
RPZQQL		75.80	-0.55	-0.59	88.48	-0.43	-0.40	CE

**Plastics Interlaboratory Testing Program
Analysis 710**

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

WebCode	Data Flag	Sample E61			Sample E62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
RRUNKS		76.73	0.37	0.40	89.48	0.57	0.53	WY
TMU91Z		77.78	1.42	1.51	90.15	1.25	1.16	EM
V3ZFL3		75.70	-0.65	-0.69	87.88	-1.03	-0.95	TO
VMSK69		76.13	-0.23	-0.24	88.60	-0.30	-0.28	XA
VNDWE8		75.65	-0.70	-0.74	88.10	-0.80	-0.75	TY
XTDEVQ		76.48	0.12	0.13	90.08	1.17	1.09	AT
Y7EDAZ		75.75	-0.60	-0.64	88.58	-0.33	-0.30	TO
YUSQAE		75.25	-1.10	-1.17	87.93	-0.98	-0.91	CE
YY75YL		77.00	0.65	0.69	89.63	0.72	0.67	TO
Z762M2		76.65	0.30	0.32	87.83	-1.08	-1.00	CE
ZTB1HM		77.78	1.42	1.51	89.68	0.77	0.72	XA
ZVFCFN		77.68	1.32	1.41	90.75	1.85	1.71	XX

Summary Statistics			
Grand Means	76.351	Degrees C	88.903
			Degrees C
Std Dev Btwn Labs	0.942	Degrees C	1.078
			Degrees C
Statistics based on 39 of 44 reporting participants			

Sample E61: ABS/PC & **Sample E62:** ABS/PC

Comments on assigned Data Flags for Test #710

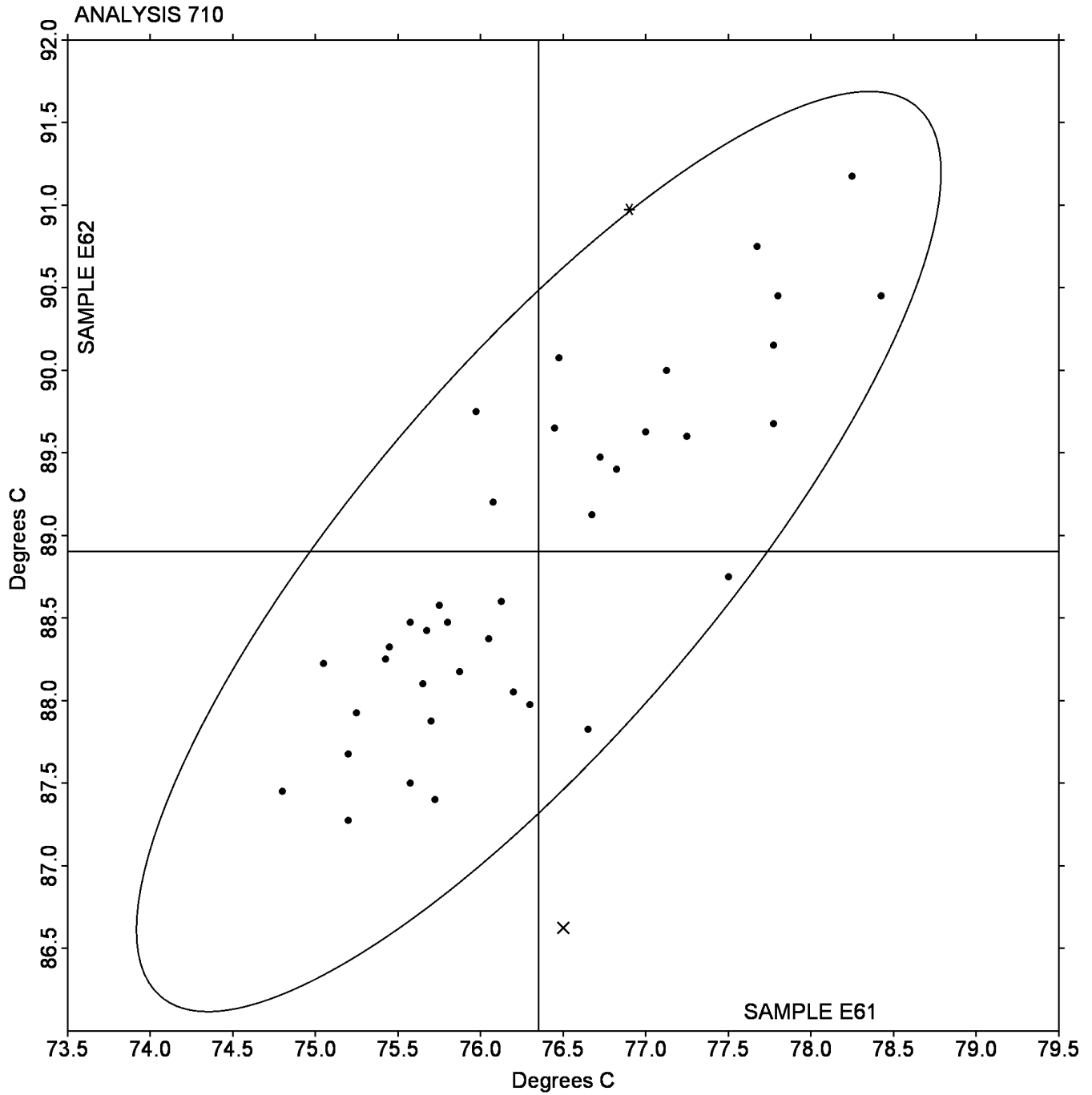
- 3X8Q6K (X) - High data for all samples.
- B9VAYZ (M) - Laboratory did not submit data for Sample E62.
- HPZZUK (X) - High data for all samples.
- KEK9CL (X) - High data for all samples.
- RJTHKX (X) - Inconsistent in testing between samples.

Instrument Code List as Reported by the Labs

- | | |
|------------------------------------|---|
| (AT) - Atlas | (CE) - Ceast |
| (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 E61: 76.351 Degrees C Grand Mean Sample E62: 88.903 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 G61			Sample G62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3CK6CM		84.6	-1.0	-0.40	96.8	0.6	0.20	TO
9UZBGK		91.5	6.0	2.46	102.5	6.3	2.09	EM
BY1Y2D		85.4	-0.1	-0.05	97.9	1.7	0.58	CE
ECT8EF		86.4	0.8	0.34	91.9	-4.2	-1.39	AT
FBNS5G		84.5	-1.1	-0.45	92.6	-3.6	-1.17	CE
NUGFHD		85.3	-0.2	-0.09	95.8	-0.3	-0.10	TO
QFGZE9		88.7	3.1	1.29	100.0	3.8	1.27	XX
QW48SS		85.7	0.2	0.07	96.6	0.4	0.15	AT
QY3HN2		83.4	-2.2	-0.89	92.0	-4.2	-1.37	TO
S42727		87.9	2.3	0.96	100.6	4.5	1.48	XX
SLZZJT		80.7	-4.9	-2.02	94.5	-1.6	-0.53	TO
TLM8HU		84.7	-0.8	-0.34	96.2	0.1	0.02	XX
VP1LFN		85.4	-0.2	-0.08	98.6	2.5	0.82	EM
VWRYR2		85.4	-0.2	-0.06	94.7	-1.5	-0.48	TO
XVH96F		83.7	-1.8	-0.75	94.0	-2.2	-0.71	CE
YC8YBF		85.1	-0.5	-0.20	96.1	-0.1	-0.03	CE
YP1HS6		84.9	-0.7	-0.27	93.9	-2.2	-0.73	CE
Z3HMRP	X	74.5	-11.1	-4.56	95.8	-0.4	-0.13	EM
ZLU9CW		89.2	3.6	1.49	99.1	2.9	0.96	XX
ZY4CQY		83.2	-2.4	-0.99	93.0	-3.2	-1.05	TO

Summary Statistics			
Grand Means	85.56	Degrees C	96.13
			Degrees C
Std Dev Btwn Labs	2.43	Degrees C	3.03
			Degrees C
Statistics based on 19 of 20 reporting participants			

Sample G61: PP & Sample G62: PP

Comments on assigned Data Flags for Test #711

Z3HMRP (X) - Low data for Sample G61 .

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

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

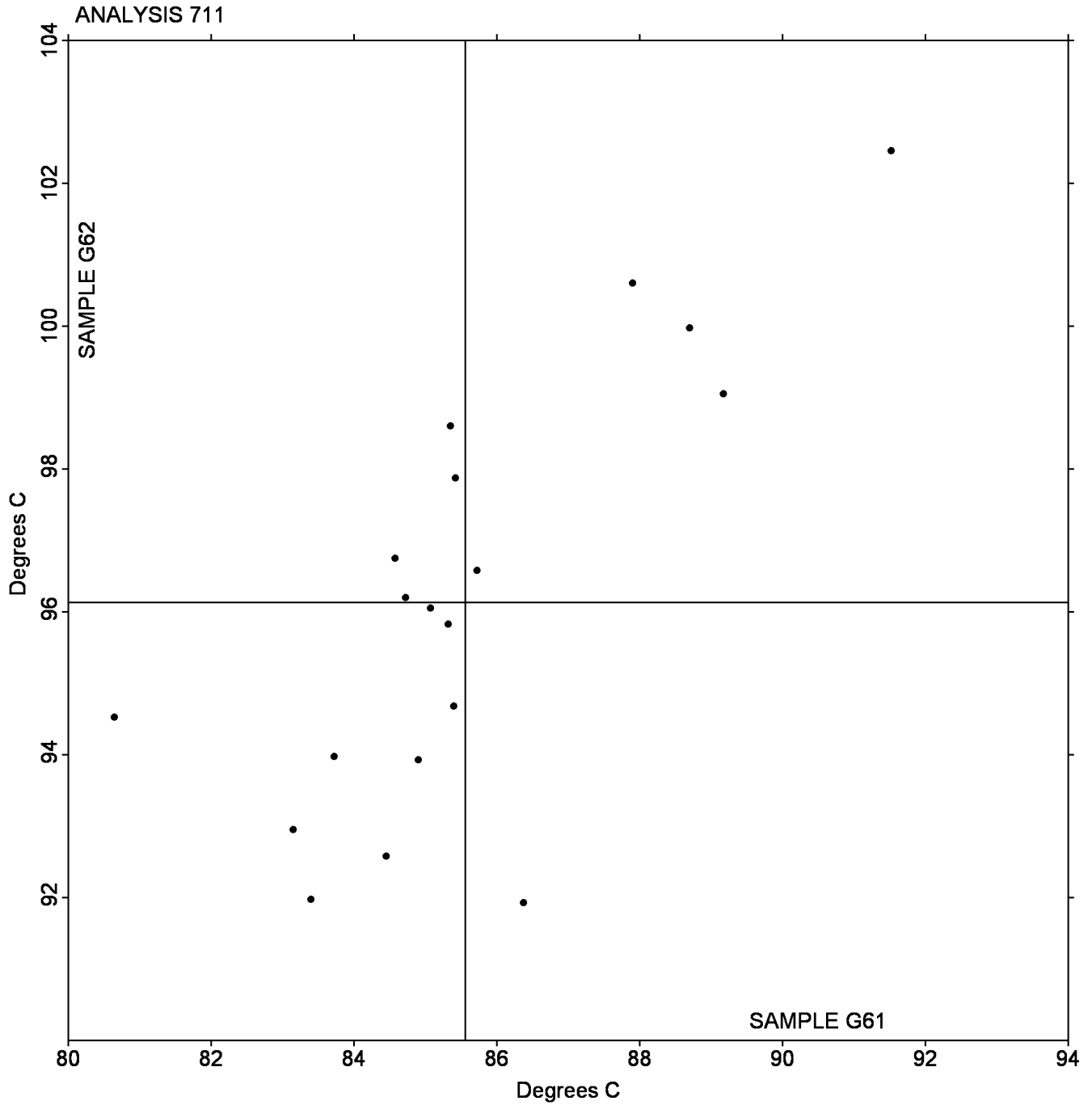
(EM) - Empire-Vortex

(TO) - Tinius Olsen

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample G61: 85.555 Degrees C Grand Mean Sample G62: 96.130 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 N61			Sample N62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
372BRW		77.33	-1.00	-0.64	88.33	-1.26	-1.00	XX
3GZTRS		75.78	-2.55	-1.63	87.40	-2.19	-1.73	XX
59U5FH		76.35	-1.97	-1.26	87.83	-1.76	-1.39	TO
5A1SDV		76.83	-1.50	-0.96	89.45	-0.14	-0.11	CE
7RU85L	*	82.88	4.55	2.92	91.20	1.61	1.28	CE
7VEK9N		77.20	-1.12	-0.72	88.40	-1.19	-0.94	CE
7VL75E		77.40	-0.92	-0.59	89.28	-0.31	-0.25	AT
8CMRNH		77.63	-0.70	-0.45	90.08	0.49	0.39	XX
8QYJJA		78.63	0.30	0.19	90.60	1.01	0.80	AT
9A251E		80.25	1.93	1.24	91.18	1.59	1.26	EM
AKP9VJ		79.68	1.35	0.87	90.95	1.36	1.08	EM
B8TJSR		77.25	-1.07	-0.69	88.58	-1.01	-0.80	CE
CFN39C		77.90	-0.42	-0.27	89.00	-0.59	-0.46	RO
CSBMGH		79.18	0.85	0.55	90.03	0.44	0.35	TO
EPYRWB		77.60	-0.72	-0.46	88.93	-0.66	-0.52	XX
F66F3F		78.98	0.65	0.42	89.28	-0.31	-0.25	AT
G8Q3NE		76.63	-1.70	-1.09	88.28	-1.31	-1.04	XX
GA9DMY	*	80.65	2.33	1.49	88.90	-0.69	-0.54	CE
GE2926		77.80	-0.52	-0.33	89.53	-0.06	-0.05	TO
H3JKEF		78.83	0.50	0.32	90.55	0.96	0.76	TO
H7V1VC		76.70	-1.62	-1.04	89.25	-0.34	-0.27	CE
JHV9BE		78.38	0.05	0.03	89.50	-0.09	-0.07	AT
KK2MDL		77.88	-0.45	-0.29	89.03	-0.56	-0.44	AT
KRTRRP		80.43	2.10	1.35	92.25	2.66	2.11	AD
KZ9B3Z		77.95	-0.37	-0.24	88.33	-1.26	-1.00	CS
M6NBHG		77.13	-1.20	-0.77	88.80	-0.79	-0.62	AT
NBSE5U		77.15	-1.17	-0.75	88.05	-1.54	-1.21	AT
QEGALD		77.58	-0.75	-0.48	89.30	-0.29	-0.23	TY
QLRSEU	*	81.20	2.88	1.85	92.90	3.31	2.62	CE
TLEZX1		78.18	-0.15	-0.09	88.75	-0.84	-0.66	DN
TPHXNF		78.90	0.58	0.37	90.53	0.94	0.74	XX
UJN1LQ		78.18	-0.15	-0.09	89.73	0.14	0.11	XX

**Plastics Interlaboratory Testing Program
Analysis 712**

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

WebCode	Data Flag	Sample N61			Sample N62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
USFCGJ		80.63	2.30	1.48	92.20	2.61	2.07	EM
V7X374		79.28	0.95	0.61	89.73	0.14	0.11	AT
VMKJ3V		76.65	-1.67	-1.07	90.35	0.76	0.60	CE
XP9GUR		76.98	-1.35	-0.86	88.63	-0.96	-0.76	XX
YRS1W7		80.03	1.70	1.09	89.65	0.06	0.05	CE

Summary Statistics

Grand Means

78.322 Degrees C

89.586 Degrees C

Std Dev Btwn Labs

1.559 Degrees C

1.265 Degrees C

Statistics based on 37 of 37 reporting participants

Sample N61: ABS/PC & **Sample N62:** ABS/PC

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

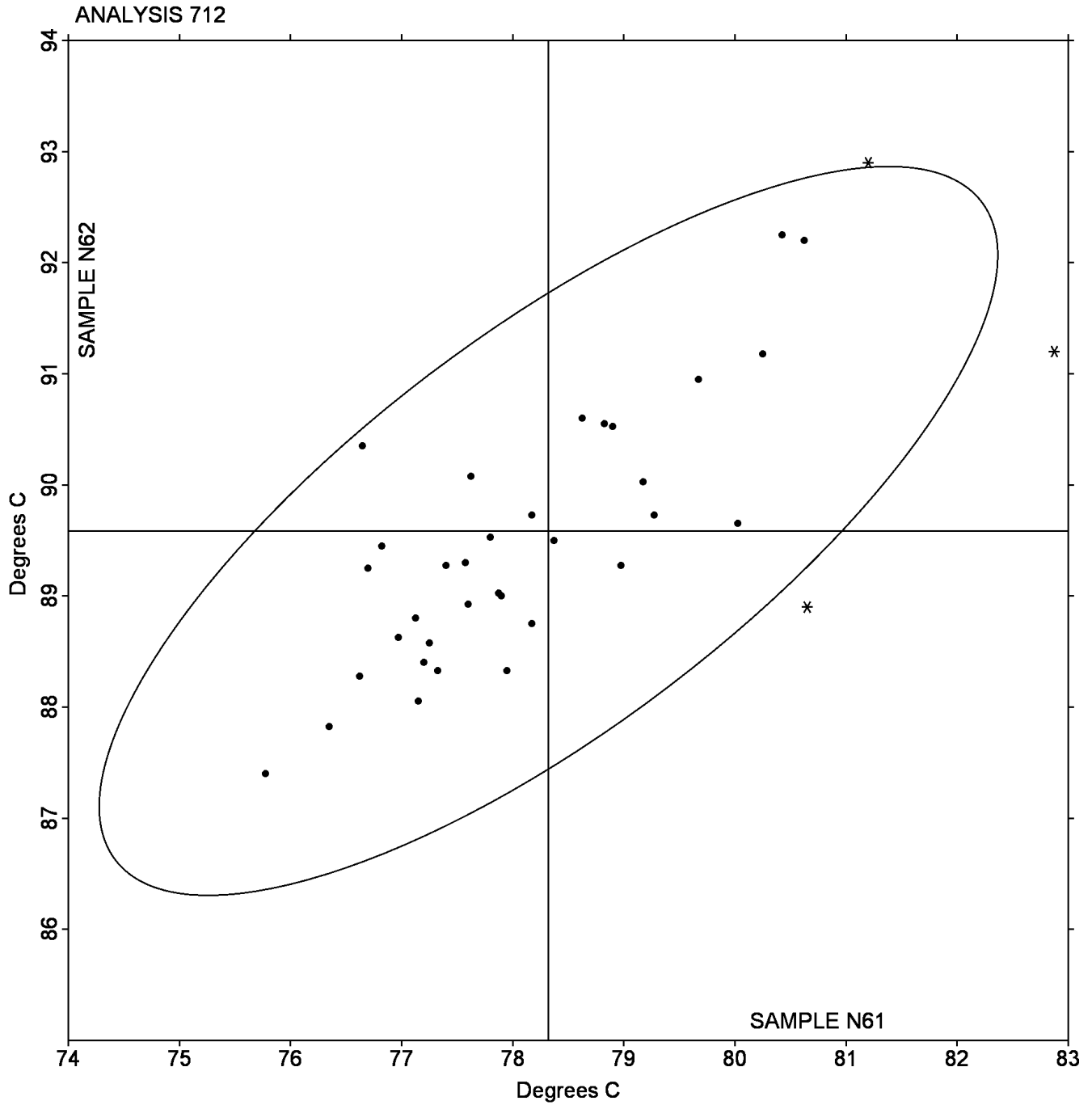
(TO) - Tinius Olsen

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample N61: 78.322 Degrees C Grand Mean Sample N62: 89.586 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 H61			Sample H62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2PTWUA		99.38	-1.38	-1.29	112.12	-1.32	-1.49	CE
2QDVLL		101.23	0.47	0.44	114.13	0.70	0.79	AT
34EBF1		100.47	-0.29	-0.27	112.97	-0.47	-0.53	TY
61RSA7		100.27	-0.49	-0.46	113.57	0.13	0.15	AT
77HLGS		100.00	-0.76	-0.71	113.10	-0.34	-0.38	AT
8UTHUY		101.53	0.77	0.72	114.23	0.80	0.90	CE
A69DPN	*	102.30	1.54	1.44	115.42	1.98	2.24	CE
CCPSDC		100.12	-0.64	-0.60	112.57	-0.87	-0.98	RO
DWPE91		100.05	-0.71	-0.66	113.23	-0.20	-0.23	CS
FBEY3U		99.97	-0.79	-0.74	112.78	-0.65	-0.74	CE
FEZQCB		100.33	-0.43	-0.40	113.42	-0.02	-0.02	DN
G1F1YD		100.43	-0.33	-0.31	113.58	0.15	0.16	XX
GV2WW7	*	104.02	3.26	3.05	115.63	2.20	2.48	EM
H2M3GJ		100.47	-0.29	-0.27	112.65	-0.79	-0.89	CE
HKZPYK	*	103.33	2.57	2.41	114.80	1.36	1.54	TO
KCNB9D	X	105.75	4.99	4.67	118.48	5.04	5.70	AT
L27P6X		101.27	0.51	0.47	114.40	0.96	1.09	XX
LWL2RE		100.00	-0.76	-0.71	112.80	-0.64	-0.72	CE
LYUVHD		101.42	0.66	0.61	113.40	-0.04	-0.04	XX
MCEK32		99.82	-0.94	-0.88	112.48	-0.95	-1.08	XX
N61CV3		99.97	-0.79	-0.74	112.70	-0.74	-0.83	CE
PUFZ2K		100.22	-0.54	-0.51	112.97	-0.47	-0.53	XX
PYGUAL		98.95	-1.81	-1.69	111.97	-1.47	-1.66	TO
QFXKK5		100.73	-0.03	-0.02	113.15	-0.29	-0.32	RO
TBSWYF		101.43	0.67	0.63	113.80	0.36	0.41	RO
VEDMPH		101.67	0.91	0.85	114.00	0.56	0.64	CE
VMAEXB		100.93	0.17	0.16	113.77	0.33	0.37	AT
VWT1QZ		100.07	-0.69	-0.65	113.27	-0.17	-0.19	CE
W8XQST		100.00	-0.76	-0.71	112.33	-1.10	-1.25	CE
WD85TJ		100.98	0.22	0.21	114.22	0.78	0.88	CS
WRCN74		101.35	0.59	0.55	113.82	0.38	0.43	EM
ZSG2KN		100.85	0.09	0.08	113.30	-0.14	-0.16	XX

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

Summary Statistics

Grand Means

100.760 Degrees C

113.438 Degrees C

Std Dev Btwn Labs

1.069 Degrees C

0.885 Degrees C

Statistics based on 31 of 32 reporting participants

Sample H61: ABS/PC & **Sample H62:** ABS/PC

Comments on assigned Data Flags for Test #715

KCNB9D (X) - High data for all samples. Also inconsistent in testing within both sample sets.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(DN) - DYNISCO

(EM) - Empire-Vortex

(RO) - Rosand

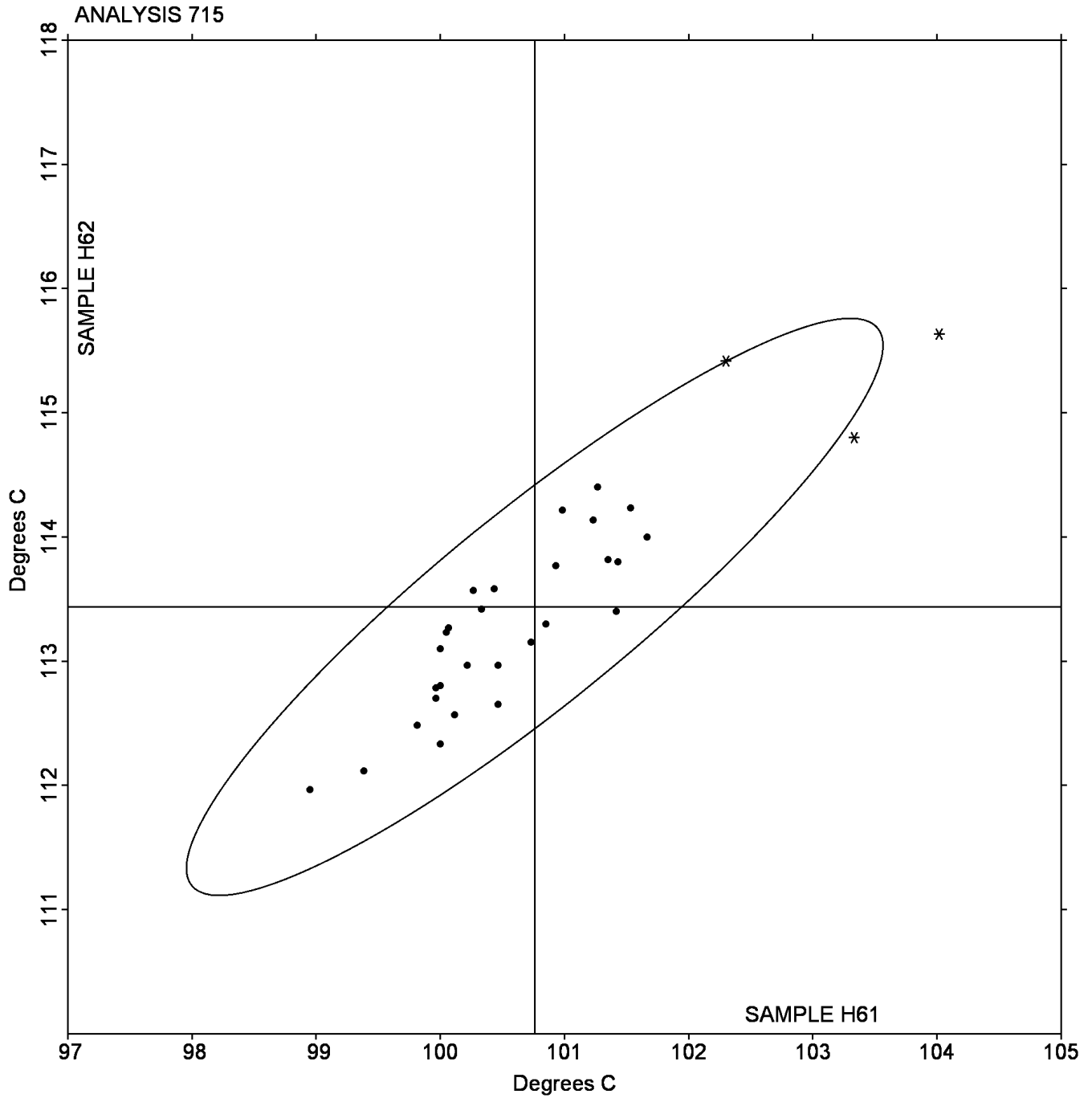
(TO) - Tinius Olsen

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample H61: 100.76 Degrees C Grand Mean Sample H62: 113.44 Degrees C



**Plastics Interlaboratory Testing Program
Analysis 716**

Vicat Softening Temperature (Rate B)

WebCode	Data Flag	Sample R61			Sample R62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
26XSK2		104.33	1.24	1.18	116.32	0.63	0.58	TO
4GK6A4		104.37	1.28	1.21	116.87	1.18	1.09	CE
6BS6JK		102.23	-0.86	-0.81	114.45	-1.23	-1.14	XX
7K2YGL		104.43	1.34	1.28	117.43	1.75	1.61	TO
88ZAUB		103.30	0.21	0.20	115.97	0.28	0.26	XX
ARBQGP	X	92.10	-10.99	-10.45	106.80	-8.88	-8.19	XX
BA5USP		102.70	-0.39	-0.37	115.67	-0.02	-0.02	AT
BDZCMM		103.18	0.09	0.09	114.97	-0.72	-0.66	XX
BZ17DQ		102.68	-0.41	-0.39	114.38	-1.30	-1.20	XX
DF6QPT		102.98	-0.11	-0.10	115.33	-0.35	-0.32	AT
DLQXNZ		101.98	-1.11	-1.05	114.23	-1.45	-1.34	CE
E5DBQA	*	106.03	2.94	2.80	118.10	2.42	2.23	EM
GNTM4S	X	104.00	0.91	0.87	103.00	-12.68	-11.70	CE
H58RXS		103.77	0.68	0.64	116.32	0.63	0.58	RO
HWBVFZ		101.80	-1.29	-1.23	114.33	-1.35	-1.25	TO
JBLDWL		103.77	0.68	0.64	115.90	0.22	0.20	XX
KHMYP7		103.23	0.14	0.14	116.03	0.35	0.32	DN
LKTH6F		104.70	1.61	1.53	116.82	1.13	1.04	EM
N2QFQM		102.55	-0.54	-0.51	114.97	-0.72	-0.66	CE
NTWE53		103.10	0.01	0.01	115.35	-0.33	-0.31	RO
NWSEWL		102.20	-0.89	-0.85	114.82	-0.87	-0.80	XX
QHURLX		103.78	0.69	0.66	116.90	1.22	1.12	AT
RJYLMM		102.87	-0.22	-0.21	115.97	0.28	0.26	AT
T4F5JW		101.78	-1.31	-1.24	115.23	-0.45	-0.42	CE
UE8Q2S		103.02	-0.07	-0.07	115.72	0.03	0.03	XX
UMDMPK		104.17	1.08	1.02	116.92	1.23	1.14	EM
VPSBWE		101.08	-2.01	-1.91	114.00	-1.68	-1.55	TO
W7W3T2	X	109.65	6.56	6.24	122.23	6.54	6.03	AT
WA9TXJ		103.43	0.34	0.33	116.97	1.28	1.18	XX
XHASCM		102.38	-0.71	-0.67	114.32	-1.37	-1.26	XX
XK8ZBH		102.90	-0.19	-0.18	116.05	0.37	0.34	CS
XU9FU7	X	97.00	-6.09	-5.79	111.22	-4.47	-4.12	CF

**Plastics Interlaboratory Testing Program
Analysis 716**

Vicat Softening Temperature (Rate B)

WebCode	Data Flag	Sample R61			Sample R62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
ZF7CV1		101.95	-1.14	-1.08	114.65	-1.03	-0.95	CE
ZUACQV		103.20	0.11	0.11	116.78	1.10	1.01	XX
ZYWAKY		101.85	-1.24	-1.18	114.48	-1.20	-1.11	TY

Summary Statistics

Grand Means

103.089 Degrees C

115.685 Degrees C

Std Dev Btwn Labs

1.052 Degrees C

1.084 Degrees C

Statistics based on 31 of 35 reporting participants

Sample R61: ABS/PC & **Sample R62:** ABS/PC

Comments on assigned Data Flags for Test #716

ARBQGP (X) - Low data for all samples. Also inconsistent in testing within Sample R61.

GNTM4S (X) - Inconsistent in testing between samples, data for Sample R62 are low.

W7W3T2 (X) - High data for all samples. Also inconsistent in testing within both sample sets.

XU9FU7 (X) - Low data for all samples.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(CF) - Coesfeld

(CS) - CSI

(DN) - DYNISCO

(EM) - Empire-Vortex

(RO) - Rosand

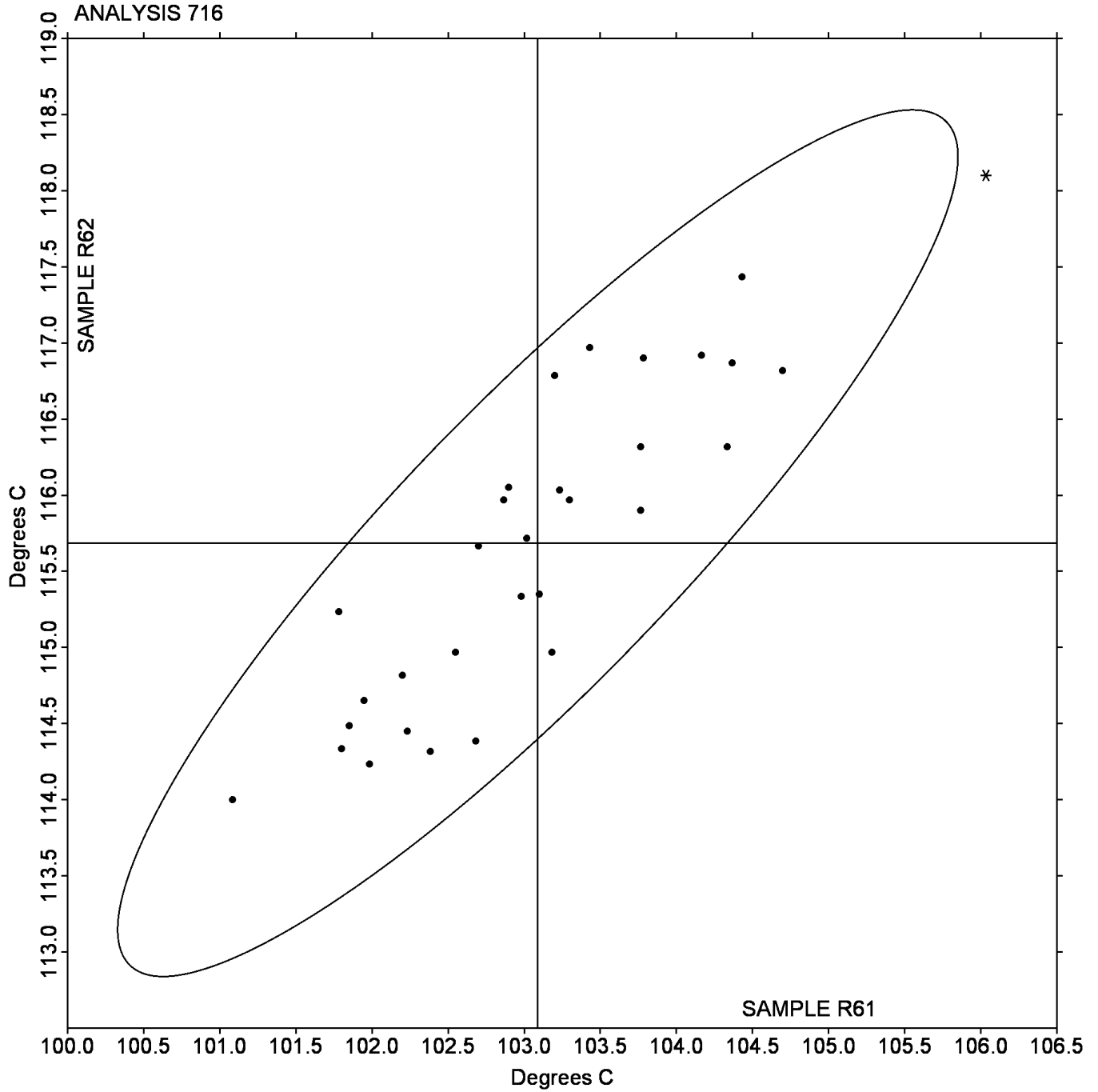
(TO) - Tinius Olsen

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample R61: 103.09 Degrees C Grand Mean Sample R62: 115.68 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 X61			Sample X62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
18NMS4		13.75	1.80	2.26	13.80	0.40	0.70	TO
1FLXPF		11.97	0.02	0.02	13.42	0.01	0.02	WZ
1S56RF		12.12	0.17	0.21	13.70	0.29	0.52	XX
1VYL1B		12.90	0.95	1.19	14.45	1.05	1.84	XX
2N7G57		10.75	-1.20	-1.51	12.65	-0.75	-1.32	TO
32NNTS		12.05	0.10	0.12	12.65	-0.75	-1.32	TO
32Q3A6		11.30	-0.65	-0.82	12.15	-1.25	-2.20	KA
33X95U		11.55	-0.40	-0.51	12.70	-0.70	-1.24	XX
3D294L		12.45	0.50	0.63	13.75	0.35	0.61	CS
3TL7U1		12.07	0.12	0.15	13.09	-0.32	-0.56	KA
3UYH8C	*	11.96	0.00	0.00	14.81	1.40	2.46	XX
3XR5LS		12.30	0.35	0.44	13.60	0.20	0.35	TY
41EDRS		10.68	-1.27	-1.60	13.58	0.17	0.30	DY
4E441W	X	13.30	1.35	1.69	15.50	2.10	3.69	XX
4LL7UY		10.70	-1.25	-1.57	12.55	-0.85	-1.50	AT
4LZ8GD		12.40	0.45	0.56	14.30	0.90	1.58	TO
52E1D5		11.54	-0.41	-0.52	13.61	0.21	0.36	WZ
594RJJ	*	11.73	-0.22	-0.28	14.59	1.19	2.09	CE
5993FF		11.67	-0.28	-0.35	13.44	0.04	0.06	CS
5DXHDE		11.40	-0.55	-0.69	13.25	-0.15	-0.27	TO
5RBWWN	X	13.55	1.60	2.01	15.60	2.20	3.86	TO
64B2KS	X	4.80	-7.16	-9.00	5.63	-7.77	-13.66	TO
6B6RVG		10.60	-1.35	-1.70	12.95	-0.45	-0.80	XX
7HCLNG		11.80	-0.15	-0.19	13.75	0.35	0.61	TO
7NXQBB		11.25	-0.71	-0.89	13.08	-0.33	-0.58	XX
7UZRH7		11.30	-0.65	-0.82	12.90	-0.50	-0.88	DA
8AP7DG		11.70	-0.26	-0.32	13.92	0.52	0.91	QT
8CN9FS		11.88	-0.08	-0.10	13.88	0.48	0.84	TO
8JDNFK		12.25	0.30	0.37	13.75	0.35	0.61	TO
9M1JZX		11.77	-0.18	-0.23	13.20	-0.20	-0.36	WZ
9SMGJD		11.46	-0.49	-0.62	13.14	-0.26	-0.46	GO
AC5QEK		13.04	1.08	1.36	13.82	0.41	0.72	TO

Plastics Interlaboratory Testing Program
Analysis 750

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

WebCode	Data Flag	Sample X61			Sample X62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
AG52AK		13.15	1.20	1.50	13.53	0.13	0.22	TO
AKMWXP		13.79	1.83	2.30	14.46	1.06	1.86	KA
AT3L4X		12.22	0.26	0.33	13.18	-0.23	-0.40	KA
AUEXRL		12.51	0.56	0.70	13.57	0.17	0.29	TO
AV8QKL		12.74	0.79	0.99	13.16	-0.24	-0.43	TO
BAG4AF		11.65	-0.30	-0.38	13.45	0.05	0.08	TO
BHUZAF		11.34	-0.61	-0.77	12.87	-0.53	-0.94	TO
BPGU6T		11.55	-0.40	-0.51	13.65	0.25	0.43	TO
BWWJUT		12.25	0.30	0.37	13.40	0.00	0.00	TO
CGM137		11.95	0.00	0.00	13.25	-0.15	-0.27	TO
CPY93U		11.51	-0.45	-0.56	12.86	-0.54	-0.95	DY
D3SEFW		12.10	0.15	0.19	13.25	-0.15	-0.27	TO
D6F3KR	*	13.14	1.18	1.49	12.76	-0.65	-1.14	TO
DLD7TN	X	5.59	-6.36	-8.00	9.07	-4.34	-7.62	TO
DVJ3ZZ	X	1.25	-10.70	-13.45	1.35	-12.05	-21.18	TO
DW4SKR		10.80	-1.15	-1.45	12.38	-1.03	-1.81	GO
DYGAW9		12.44	0.49	0.62	13.37	-0.03	-0.06	DY
EL4JGE		13.03	1.08	1.35	13.88	0.48	0.84	GO
F5LXFA		12.15	0.20	0.25	13.30	-0.10	-0.18	GO
FP3F2M		11.95	0.00	0.00	13.43	0.03	0.04	TO
FPTT16		12.24	0.28	0.35	14.03	0.62	1.09	TO
FRLPME		11.80	-0.15	-0.19	13.10	-0.30	-0.53	HA
FRQRK5		10.69	-1.26	-1.59	12.63	-0.77	-1.36	XX
FWAWU9		11.70	-0.25	-0.32	12.75	-0.65	-1.15	GO
G2NTLU		13.05	1.10	1.38	14.40	1.00	1.75	TO
GSQC4B		11.01	-0.94	-1.18	12.96	-0.45	-0.79	KA
H5PP6N		12.25	0.30	0.37	13.65	0.25	0.43	KA
HKQ3ML		11.29	-0.67	-0.84	13.04	-0.36	-0.64	HA
HREBY9		11.35	-0.61	-0.76	12.06	-1.34	-2.36	DY
J45788		12.83	0.88	1.10	13.72	0.31	0.55	TO
JJ3VEL		12.17	0.21	0.27	13.88	0.48	0.84	XX
JJWGN		10.60	-1.35	-1.70	13.15	-0.25	-0.44	TM

Plastics Interlaboratory Testing Program
Analysis 750

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

WebCode	Data Flag	Sample X61			Sample X62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
JYLH3B		13.35	1.40	1.76	14.10	0.70	1.23	TO
K93EN9	*	14.10	2.14	2.69	13.59	0.19	0.34	KA
KHT1K7	X	8.99	-2.96	-3.72	13.74	0.34	0.60	DY
KN2S3Z		10.85	-1.10	-1.39	12.95	-0.45	-0.80	TO
LGBQJ1		11.86	-0.10	-0.12	12.74	-0.67	-1.17	DY
LV8E8Y		11.11	-0.85	-1.07	13.15	-0.25	-0.44	TO
LYETYC		11.70	-0.25	-0.32	13.75	0.35	0.61	TO
MA1MJ5		11.02	-0.94	-1.18	13.04	-0.37	-0.65	KA
MJDZ3G		11.32	-0.64	-0.80	13.13	-0.28	-0.49	CE
MMBPW9		11.90	-0.05	-0.07	13.05	-0.35	-0.62	TO
MSFM8U		13.00	1.05	1.32	13.50	0.10	0.17	TO
MYH5MF		11.24	-0.71	-0.90	12.55	-0.86	-1.51	TO
N7W9HX	X	7.86	-4.10	-5.15	10.58	-2.82	-4.96	KA
NMMT1L	*	11.65	-0.30	-0.38	14.75	1.35	2.37	XX
P2D6KL		13.01	1.06	1.33	13.34	-0.07	-0.12	CE
P54MFV		12.25	0.30	0.37	13.50	0.10	0.17	XX
P631BM		11.75	-0.20	-0.25	13.30	-0.10	-0.18	TO
PVH29H		11.58	-0.38	-0.47	13.30	-0.11	-0.19	TO
PXKJ9T		11.20	-0.75	-0.95	13.55	0.15	0.26	TO
Q3B88V		12.55	0.60	0.75	14.60	1.20	2.10	TO
QHVV1R		11.56	-0.40	-0.50	13.67	0.26	0.46	TO
QRSDK9		12.65	0.70	0.88	13.70	0.30	0.52	TO
QUPEQS		11.10	-0.86	-1.08	12.71	-0.69	-1.22	WZ
QUWD77	X	10.35	-1.60	-2.01	14.15	0.75	1.31	DY
QYY5PM		13.15	1.20	1.50	14.05	0.65	1.14	TO
R1GVYQ		11.70	-0.25	-0.32	12.55	-0.85	-1.50	TO
R3BTVG		11.45	-0.51	-0.64	12.60	-0.80	-1.41	TO
R7A6S7		10.86	-1.09	-1.37	13.25	-0.16	-0.28	TO
RA6Z6A		12.30	0.35	0.44	13.30	-0.10	-0.18	TO
RFFNWD	*	14.30	2.35	2.95	14.65	1.25	2.19	GO
RGR3AS		12.90	0.95	1.19	13.75	0.35	0.61	TO

Plastics Interlaboratory Testing Program
Analysis 750

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

WebCode	Data Flag	Sample X61			Sample X62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
RK7CH4		12.90	0.95	1.19	13.90	0.50	0.87	TO
S5PW1Z	X	12.83	0.88	1.10	15.34	1.94	3.40	TO
S7F7J6		10.90	-1.05	-1.32	12.95	-0.45	-0.80	TO
SH7CL6		12.85	0.90	1.13	13.75	0.35	0.61	TO
SHM6V9		12.70	0.75	0.94	14.05	0.65	1.14	XX
SRMGP5		11.95	0.00	0.00	13.70	0.30	0.52	KA
SWMNKT		12.25	0.30	0.37	12.80	-0.60	-1.06	TO
TCW8WW		12.00	0.05	0.06	13.04	-0.37	-0.65	TO
TJPRS6		11.45	-0.50	-0.63	13.10	-0.30	-0.53	TO
TKCQNA		12.20	0.25	0.31	13.70	0.30	0.52	CS
TUABEW		11.45	-0.50	-0.63	12.70	-0.70	-1.24	CS
U5B2PA		13.00	1.05	1.32	13.05	-0.35	-0.62	TO
U9K879		11.55	-0.40	-0.51	13.35	-0.05	-0.09	KA
UTW82W		11.10	-0.85	-1.07	12.98	-0.42	-0.74	TO
V4N4RA		11.69	-0.26	-0.33	13.54	0.14	0.25	DY
V5F3QG		12.40	0.45	0.56	14.00	0.60	1.05	TO
V6Z9HY		11.15	-0.80	-1.01	12.95	-0.45	-0.80	TO
VMPB39	X	12.02	0.06	0.08	11.46	-1.94	-3.41	TO
W6WF7R		13.45	1.50	1.88	13.55	0.15	0.26	TO
WE7QKB		11.75	-0.20	-0.25	12.90	-0.50	-0.88	GO
WEZVNJ	X	12.15	0.20	0.25	11.29	-2.12	-3.72	KA
X3KUHW		10.97	-0.99	-1.24	13.54	0.13	0.23	TO
YPCPTJ		12.14	0.19	0.24	14.48	1.08	1.89	KA
YS2FAL		12.05	0.10	0.12	13.40	0.00	0.00	CE
YZVQGA		10.45	-1.50	-1.89	12.50	-0.90	-1.59	TO
Z5PV4C		12.55	0.60	0.75	13.55	0.15	0.26	TO
Z7U1K2		11.85	-0.10	-0.13	13.60	0.20	0.35	TO
ZE754L		11.72	-0.24	-0.30	14.43	1.03	1.80	TO
ZGVZ19		11.15	-0.80	-1.01	13.55	0.15	0.26	TO
ZM5ULQ		12.10	0.15	0.19	13.25	-0.15	-0.27	TO

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

Summary Statistics

Grand Means

11.953 grams/10 mins

13.403 grams/10 mins

Std Dev Btwn Labs

0.796 grams/10 mins

0.569 grams/10 mins

Statistics based on 114 of 125 reporting participants

Sample X61: PP & Sample X62: PP

Comments on assigned Data Flags for Test #750

4E441W (X) - Inconsistent in testing between samples, data for Sample X62 are high.

5RBWWN (X) - Inconsistent in testing between samples, data for Sample X62 are high.

64B2KS (X) - Low data for all samples.

DLD7TN (X) - Low data for all samples.

DVJ3ZZ (X) - Extreme data. Data appear to be off by a factor of 10.

KHT1K7 (X) - Inconsistent in testing between samples, data for Sample X61 are low.

N7W9HX (X) - Low data for all samples.

QUWD77 (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.

S5PW1Z (X) - Inconsistent in testing between samples, data for Sample X62 are high.

VMPB39 (X) - Inconsistent in testing between samples, data for Sample X62 are low. Also inconsistent in testing within both sample sets.

WEZVNJ (X) - Inconsistent in testing between samples, data for Sample X62 are low.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(DA) - Davenport

(DY) - Dynisco

(GO) - Gottfert

(HA) - Haake

(KA) - Kayeness

(QT) - Qualitest

(TM) - TMI

(TO) - Tinius Olsen

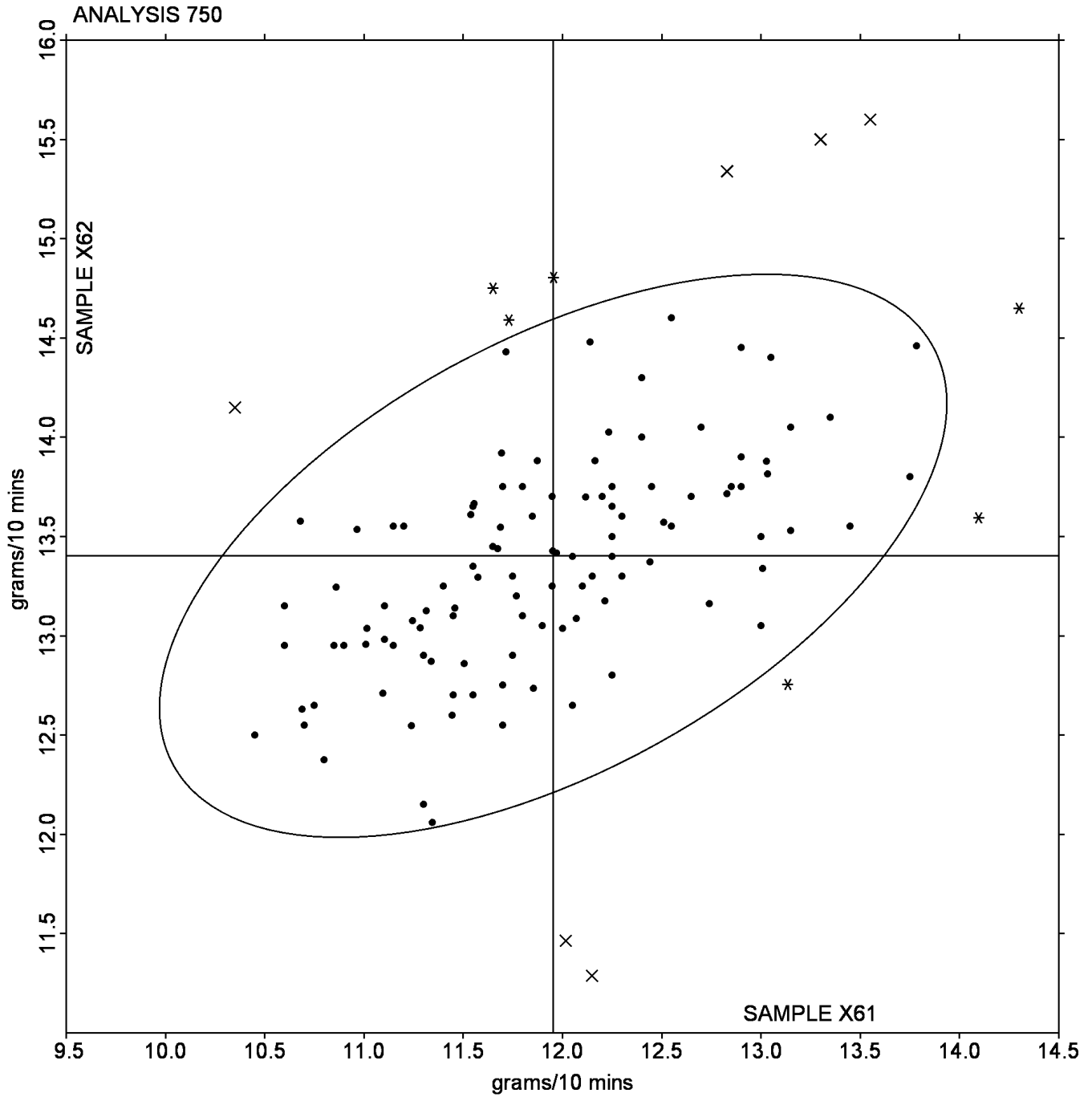
(TY) - Toyoseiki Seisakusho

(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 X61: 11.953 grams/10 mins Grand Mean Sample X62: 13.403 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 T61			Sample T62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
169RNS		1.18643	0.00337	1.67	1.19237	0.00167	0.85	XX
17JAFG		1.18200	-0.00106	-0.53	1.18987	-0.00083	-0.42	XX
18PU6C		1.18520	0.00214	1.06	1.19330	0.00260	1.32	XX
1GKVG P	X	1.18530	0.00224	1.11	1.18947	-0.00123	-0.63	XX
1JQRYZ	X	1.17477	-0.00830	-4.11	1.18293	-0.00776	-3.94	XX
1KTHFT		1.18333	0.00027	0.13	1.19067	-0.00003	-0.02	XX
1QALM4		1.18463	0.00157	0.78	1.19353	0.00284	1.44	XX
1RPGGP		1.18447	0.00140	0.69	1.19223	0.00154	0.78	XX
1U44VU		1.18260	-0.00046	-0.23	1.18997	-0.00073	-0.37	XX
1XAY2Y		1.17910	-0.00396	-1.96	1.18787	-0.00283	-1.44	XX
221L3Y	*	1.18407	0.00100	0.50	1.18903	-0.00166	-0.85	XX
22UZ6B	X	1.17830	-0.00476	-2.36	1.19107	0.00037	0.19	XX
2HF4DS		1.18240	-0.00066	-0.33	1.18917	-0.00153	-0.78	XX
2LRDRW		1.18383	0.00077	0.38	1.19040	-0.00030	-0.15	XX
2MJTZZ		1.18510	0.00204	1.01	1.19240	0.00170	0.86	XX
3FC37Y		1.18500	0.00194	0.96	1.19267	0.00197	1.00	XX
3GAP4J	*	1.18463	0.00157	0.78	1.19473	0.00404	2.05	XX
4RQPRJ		1.18313	0.00007	0.03	1.19170	0.00100	0.51	XX
56295J		1.18517	0.00210	1.04	1.19273	0.00204	1.03	XX
5FDVJK		1.18693	0.00387	1.92	1.19400	0.00330	1.68	XX
5GK2EE		1.18207	-0.00100	-0.49	1.19013	-0.00056	-0.29	XX
5JCPFF		1.18380	0.00074	0.36	1.19153	0.00084	0.42	XX
5JRQ74		1.18410	0.00104	0.51	1.19153	0.00084	0.42	XX
6AEKN6		1.18387	0.00080	0.40	1.19200	0.00130	0.66	XX
6DVXCT		1.18383	0.00077	0.38	1.19183	0.00114	0.58	XX
6NFT97		1.18370	0.00064	0.32	1.19043	-0.00026	-0.13	XX
6U4G4C		1.18410	0.00104	0.51	1.19213	0.00144	0.73	XX
6WHQRJ		1.18367	0.00060	0.30	1.19167	0.00097	0.49	XX
6Y4899		1.18360	0.00054	0.27	1.19273	0.00204	1.03	XX
73BA1Q		1.18093	-0.00213	-1.06	1.19003	-0.00066	-0.34	XX
7UZ8NC		1.18493	0.00187	0.93	1.19160	0.00090	0.46	XX
8725BW		1.18233	-0.00073	-0.36	1.19133	0.00064	0.32	XX

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

WebCode	Data Flag	Sample T61			Sample T62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
8JQDCH		1.18233	-0.00073	-0.36	1.18933	-0.00136	-0.69	XX
96S3XH		1.18433	0.00127	0.63	1.19280	0.00210	1.07	XX
9NSFM6		1.18100	-0.00206	-1.02	1.18900	-0.00170	-0.86	XX
A34TMX	*	1.18483	0.00177	0.88	1.18953	-0.00116	-0.59	XX
A68T69		1.18257	-0.00050	-0.25	1.18953	-0.00116	-0.59	XX
A7HG6S		1.18553	0.00247	1.22	1.19183	0.00114	0.58	XX
ABLPVJ		1.18333	0.00027	0.13	1.19087	0.00017	0.09	XX
AEVSK8		1.18330	0.00024	0.12	1.18993	-0.00076	-0.39	XX
AL1TFV		1.18357	0.00050	0.25	1.19203	0.00134	0.68	XX
AR5Z7E		1.18180	-0.00126	-0.63	1.18887	-0.00183	-0.93	XX
ATXXJQ		1.18283	-0.00023	-0.11	1.19170	0.00100	0.51	XX
BSS76F		1.17937	-0.00370	-1.83	1.18847	-0.00223	-1.13	XX
C5PA1L	X	1.17920	-0.00386	-1.91	1.19190	0.00120	0.61	XX
CK6ESV		1.18453	0.00147	0.73	1.19153	0.00084	0.42	XX
CT9DMG		1.18151	-0.00155	-0.77	1.18951	-0.00118	-0.60	XX
E1MZWX		1.18367	0.00060	0.30	1.19140	0.00070	0.36	XX
E8GNLV		1.18093	-0.00213	-1.06	1.18903	-0.00166	-0.85	XX
F5ZHTS		1.18490	0.00184	0.91	1.19240	0.00170	0.86	XX
FGCPW7	X	1.18700	0.00394	1.95	1.18933	-0.00136	-0.69	XX
FH3NLK		1.18303	-0.00003	-0.02	1.19187	0.00117	0.59	XX
FJAUWY		1.18193	-0.00113	-0.56	1.18920	-0.00150	-0.76	XX
FQJ2PN		1.18223	-0.00083	-0.41	1.18930	-0.00140	-0.71	XX
G4GYGT		1.18327	0.00020	0.10	1.19117	0.00047	0.24	XX
GAM4GB		1.18390	0.00084	0.41	1.19170	0.00100	0.51	XX
H17FEQ		1.18353	0.00047	0.23	1.19150	0.00080	0.41	XX
HHBCZG		1.18203	-0.00103	-0.51	1.19063	-0.00006	-0.03	XX
HQL9K7	*	1.17760	-0.00546	-2.71	1.18567	-0.00503	-2.55	XX
K2ABAL	*	1.18243	-0.00063	-0.31	1.18713	-0.00356	-1.81	XX
K2GKBJ		1.18500	0.00194	0.96	1.19200	0.00130	0.66	XX
KF8VG4		1.18453	0.00147	0.73	1.19217	0.00147	0.75	XX
KGDM8R		1.18243	-0.00063	-0.31	1.18960	-0.00110	-0.56	XX
L7LQMF		1.17980	-0.00326	-1.62	1.18880	-0.00190	-0.96	XX

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

WebCode	Data Flag	Sample T61			Sample T62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
LBDBCC		1.18577	0.00270	1.34	1.19290	0.00220	1.12	XX
LD1VDA		1.18407	0.00100	0.50	1.19190	0.00120	0.61	XX
M3X6TR		1.18343	0.00037	0.18	1.19130	0.00060	0.31	XX
N8T7TX		1.18267	-0.00040	-0.20	1.18900	-0.00170	-0.86	XX
NHKXYJ		1.18393	0.00087	0.43	1.19330	0.00260	1.32	XX
PAB84R		1.17881	-0.00425	-2.11	1.18770	-0.00299	-1.52	XX
PU26RR		1.17900	-0.00406	-2.01	1.18747	-0.00323	-1.64	XX
Q278YN		1.17900	-0.00406	-2.01	1.18700	-0.00370	-1.88	XX
QR7CK8		1.18190	-0.00116	-0.58	1.18940	-0.00130	-0.66	XX
QU3US7		1.18333	0.00027	0.13	1.19250	0.00180	0.92	XX
REDKXN		1.18477	0.00170	0.84	1.19240	0.00170	0.86	XX
RTJR2K		1.18500	0.00194	0.96	1.19170	0.00100	0.51	XX
RU282L		1.18313	0.00007	0.03	1.19060	-0.00010	-0.05	XX
RYQ3CZ		1.18407	0.00100	0.50	1.19057	-0.00013	-0.07	XX
S3ABEY		1.18467	0.00160	0.79	1.19200	0.00130	0.66	XX
S99E59		1.18360	0.00054	0.27	1.19193	0.00124	0.63	XX
SCKVC7		1.18477	0.00170	0.84	1.19440	0.00370	1.88	XX
TEHLD8		1.18187	-0.00120	-0.59	1.18987	-0.00083	-0.42	XX
TQXKZ3		1.18110	-0.00196	-0.97	1.18927	-0.00143	-0.73	XX
TVBFG5		1.18260	-0.00046	-0.23	1.19030	-0.00040	-0.20	XX
TX4ELV	*	1.17770	-0.00536	-2.66	1.18507	-0.00563	-2.86	XX
UC4XBZ		1.18300	-0.00006	-0.03	1.19000	-0.00070	-0.35	XX
UME5GU		1.18467	0.00160	0.79	1.19300	0.00230	1.17	XX
UPG2LJ		1.18533	0.00227	1.12	1.19267	0.00197	1.00	XX
UU63YW		1.18533	0.00227	1.12	1.19307	0.00237	1.20	XX
UXXGZY		1.18497	0.00190	0.94	1.19277	0.00207	1.05	XX
V2CBCA		1.18233	-0.00073	-0.36	1.19027	-0.00043	-0.22	XX
W6AL8G	*	1.18607	0.00300	1.49	1.19113	0.00044	0.22	XX
X5CGJY	X	6.42647	5.24340	2,596.61	6.25670	5.06600	2,572.70	XX
X77SLZ	X	1.18253	-0.00053	-0.26	1.18577	-0.00493	-2.50	XX
XWHG1Z		1.18623	0.00317	1.57	1.19163	0.00094	0.48	XX

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

WebCode	Data Flag	Sample T61			Sample T62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
YALNQB		1.18153	-0.00153	-0.76	1.18897	-0.00173	-0.88	XX
YB73GZ	X	1.17580	-0.00726	-3.60	1.18470	-0.00600	-3.05	XX
YBBG5M	X	1.18347	0.00040	0.20	1.90200	0.71130	361.22	XX
YEX8GA		1.18073	-0.00233	-1.15	1.18830	-0.00240	-1.22	XX
YH5SY4		1.18103	-0.00203	-1.01	1.18687	-0.00383	-1.95	XX
YTJ3U9		1.18067	-0.00240	-1.19	1.18933	-0.00136	-0.69	XX
YYB1UX	*	1.17700	-0.00606	-3.00	1.18533	-0.00536	-2.72	XX
ZDWMGN		1.18160	-0.00146	-0.72	1.18857	-0.00213	-1.08	XX
ZK96AG		1.18433	0.00127	0.63	1.19167	0.00097	0.49	XX

Summary Statistics			
Grand Means	1.183064	sp gr 23/23 C	1.190697
			sp gr 23/23 C
Std Dev Btwn Labs	0.002019	sp gr 23/23 C	0.001969
			sp gr 23/23 C
Statistics based on 95 of 104 reporting participants			

Sample T61: ABS/PC & Sample T62: ABS/PC

Comments on assigned Data Flags for Test #718

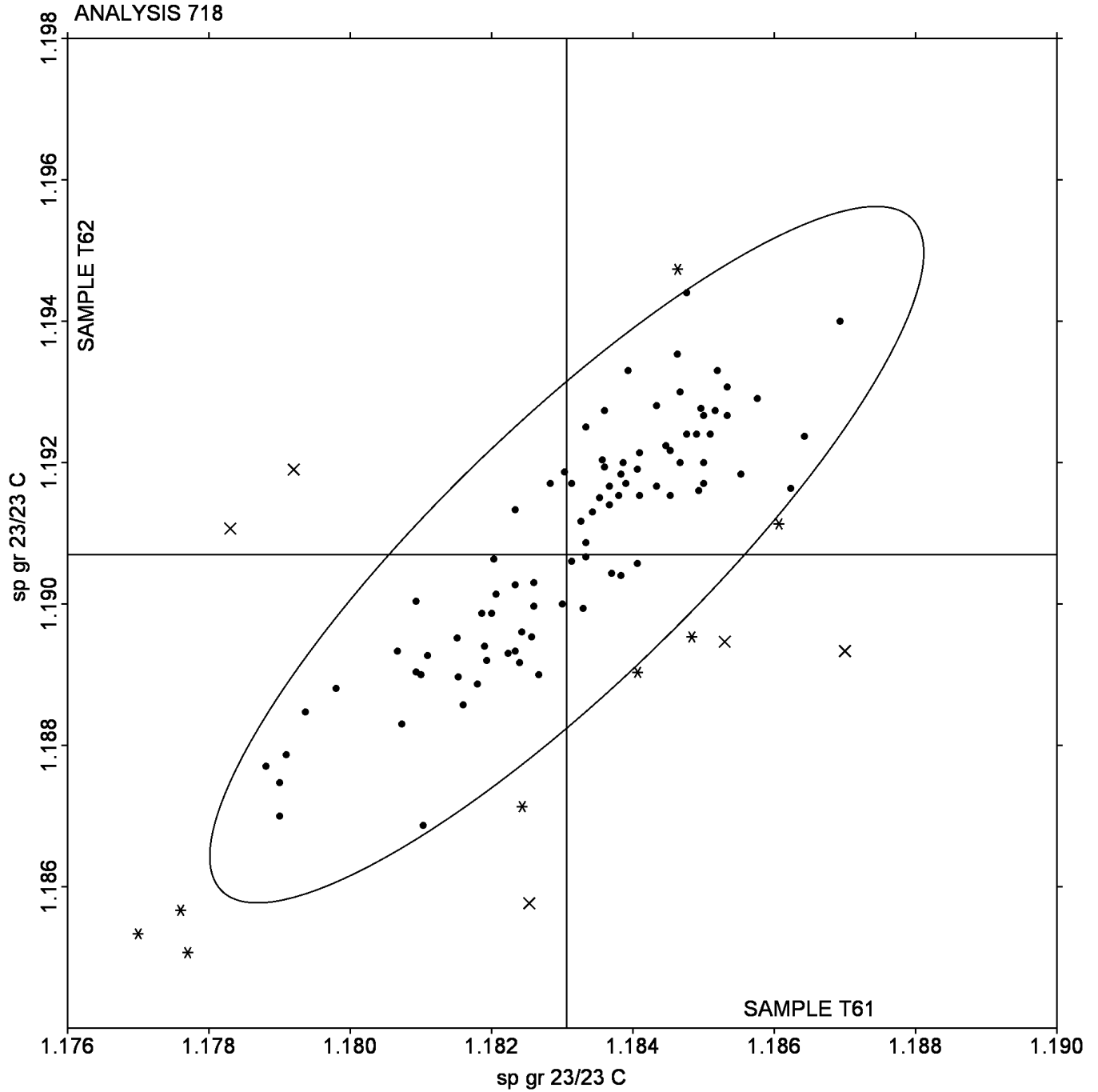
- 1GKVG (X) - Inconsistent in testing between samples.
- 1JQRYZ (X) - Low data for all samples. Possible Systematic Error.
- 22UZ6B (X) - Inconsistent in testing between samples. Also inconsistent in testing within both sample sets.
- C5PA1L (X) - Inconsistent in testing between samples.
- FGCPW7 (X) - Inconsistent in testing between samples.
- X5CGJY (X) - Extreme data.
- X77SLZ (X) - Inconsistent in testing between samples.
- YB73GZ (X) - Low data for all samples. Possible Systematic Error.
- YBBG5M (X) - Inconsistent in testing between samples, data for Sample T62 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 718
Specific Gravity - sp gr 23/23 C

Grand Mean Sample T61: 1.1831 sp gr 23/23 C Grand Mean Sample T62: 1.1907 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 L61			Sample L62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2ZCK63		31.325	-0.087	-0.40	39.980	0.166	0.97	XX
3JWN5U		31.546	0.134	0.62	39.794	-0.019	-0.11	XX
3L2QXX		31.315	-0.097	-0.44	39.540	-0.274	-1.59	XX
3UEJ9T		31.050	-0.362	-1.66	39.850	0.036	0.21	XX
4LKWXN		31.180	-0.232	-1.06	40.025	0.211	1.23	XX
5J761B		31.740	0.328	1.51	39.690	-0.124	-0.72	XX
6218C6	*	31.750	0.338	1.55	40.135	0.321	1.87	XX
6KKHCS		31.260	-0.152	-0.70	39.975	0.161	0.94	XX
7XTJ6P		31.570	0.158	0.73	39.945	0.131	0.76	XX
88RZEL		31.350	-0.062	-0.28	39.800	-0.014	-0.08	XX
9937G5		31.310	-0.102	-0.47	39.700	-0.114	-0.66	XX
9TLSTH		31.480	0.068	0.31	40.140	0.326	1.90	XX
A133J9		31.710	0.298	1.37	39.645	-0.169	-0.98	XX
A4Z7A9		31.425	0.013	0.06	39.835	0.021	0.12	XX
BAG6XZ		31.455	0.043	0.20	39.590	-0.224	-1.30	XX
BGDM5D		31.150	-0.262	-1.20	39.965	0.151	0.88	XX
BWAQWJ		31.240	-0.172	-0.79	39.805	-0.009	-0.05	XX
BYFBC4		31.535	0.123	0.57	39.715	-0.099	-0.58	XX
DA69LR		31.505	0.093	0.43	39.735	-0.079	-0.46	XX
ERGD4K		31.190	-0.222	-1.02	40.030	0.216	1.26	XX
F5Q1FL		31.630	0.218	1.00	39.850	0.036	0.21	XX
G28F5W		31.295	-0.117	-0.54	39.785	-0.029	-0.17	XX
GAPUL8		31.125	-0.287	-1.32	39.955	0.141	0.82	XX
GN77EP		31.580	0.168	0.77	40.010	0.196	1.14	XX
H42JR4		31.450	0.038	0.18	40.020	0.206	1.20	XX
H9XW8Z		31.240	-0.172	-0.79	39.910	0.096	0.56	XX
HMARPQ		31.265	-0.147	-0.67	40.085	0.271	1.58	XX
J8ZAQT		31.175	-0.237	-1.09	39.980	0.166	0.97	XX
JBLU6J		31.485	0.073	0.34	39.760	-0.054	-0.31	XX
JPCVUZ		31.075	-0.337	-1.55	39.710	-0.104	-0.60	XX
K14EWP	X	29.910	-1.502	-6.90	38.470	-1.344	-7.83	XX
K2YK8U		31.370	-0.042	-0.19	40.210	0.396	2.31	XX

**Plastics Interlaboratory Testing Program
Analysis 757**

Ash Content in Thermoplastics - Percent

WebCode	Data Flag	Sample L61			Sample L62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
LT2KF2		31.190	-0.222	-1.02	39.715	-0.099	-0.58	XX
LWG8L6		31.585	0.173	0.80	39.845	0.031	0.18	XX
LWKD2N	X	31.040	-0.372	-1.71	39.280	-0.534	-3.11	XX
M7D3H7		31.370	-0.042	-0.19	39.715	-0.099	-0.58	XX
M7TFVH		31.671	0.259	1.19	40.024	0.210	1.22	XX
MNBKNS		31.590	0.178	0.82	39.800	-0.014	-0.08	XX
N2MXNK		31.926	0.514	2.36	39.738	-0.076	-0.44	XX
N6ZSB4		31.370	-0.042	-0.19	39.705	-0.109	-0.63	XX
Q5GK3S		31.210	-0.202	-0.93	39.755	-0.059	-0.34	XX
QWRHYF		31.342	-0.069	-0.32	39.720	-0.094	-0.55	XX
RAKFAB		31.730	0.318	1.46	39.825	0.011	0.07	XX
RL4HLW		31.325	-0.087	-0.40	39.540	-0.274	-1.59	XX
RVE445		31.475	0.063	0.29	39.850	0.036	0.21	XX
SEEZ7M		31.255	-0.157	-0.72	39.480	-0.334	-1.94	XX
SM7U3C		31.570	0.158	0.73	39.755	-0.059	-0.34	XX
SNHXFA	X	32.400	0.988	4.54	40.000	0.186	1.08	XX
TF9G1G		31.755	0.343	1.58	39.785	-0.029	-0.17	XX
UAB2PR		31.575	0.163	0.75	39.910	0.096	0.56	XX
UADP65		31.384	-0.028	-0.13	39.751	-0.063	-0.37	XX
UHHVFM		31.305	-0.107	-0.49	39.455	-0.359	-2.09	XX
UWXPHS		31.375	-0.037	-0.17	39.860	0.046	0.27	XX
VA798Q		31.915	0.503	2.31	39.685	-0.129	-0.75	XX
WL9E75		31.725	0.313	1.44	39.585	-0.229	-1.33	XX
WLQTBS		31.570	0.158	0.73	39.775	-0.039	-0.23	XX
WW7VT6		31.070	-0.342	-1.57	39.720	-0.094	-0.55	XX
X2REGD		31.580	0.168	0.77	39.830	0.016	0.09	XX
XH7S7X		30.975	-0.437	-2.01	40.090	0.276	1.61	XX
XS5EHW		31.365	-0.047	-0.21	39.435	-0.379	-2.21	XX
Z373GY		31.160	-0.252	-1.16	39.815	0.001	0.01	XX
Z6AY11		31.300	-0.112	-0.51	39.645	-0.169	-0.98	XX
ZDLNES		31.265	-0.147	-0.67	39.850	0.036	0.21	XX

Ash Content in Thermoplastics - Percent

Summary Statistics**Grand Means**

31.4117 Percent

39.8138 Percent

Std Dev Btwn Labs

0.2176 Percent

0.1717 Percent

Statistics based on 60 of 63 reporting participants

Sample L61: PP & Sample L62: PP

Comments on assigned Data Flags for Test #757

K14EWP (X) - Low data for all samples. Also inconsistent in testing within both samples.

LWKD2N (X) - Low data for Sample L62 .

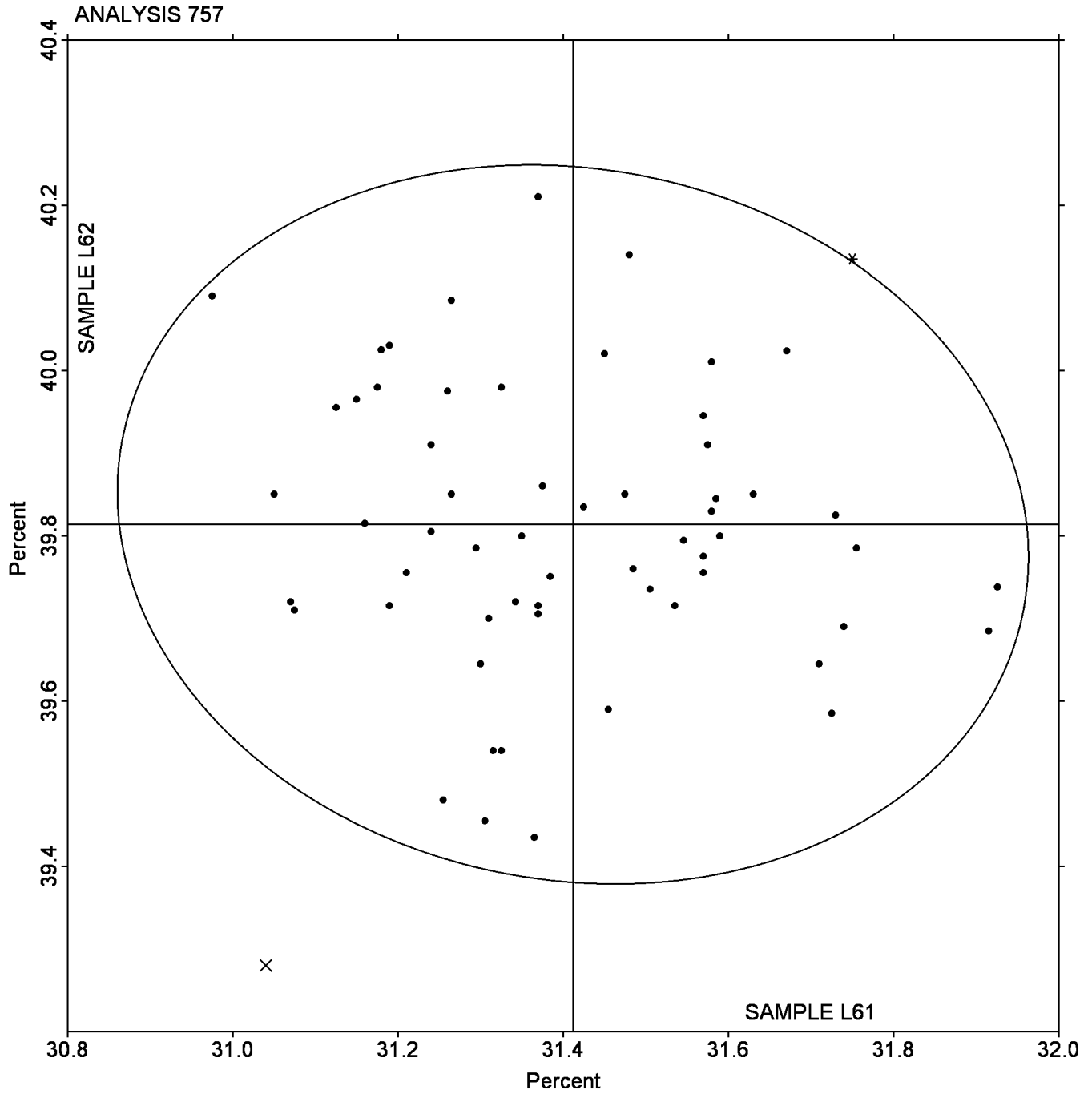
SNHXFA (X) - High data for Sample L61.

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 L61: 31.412 Percent Grand Mean Sample L62: 39.814 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

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

(IR) - Instron with retrofit

(MT) - MTS/Sintech

(TH) - Thwing Albert

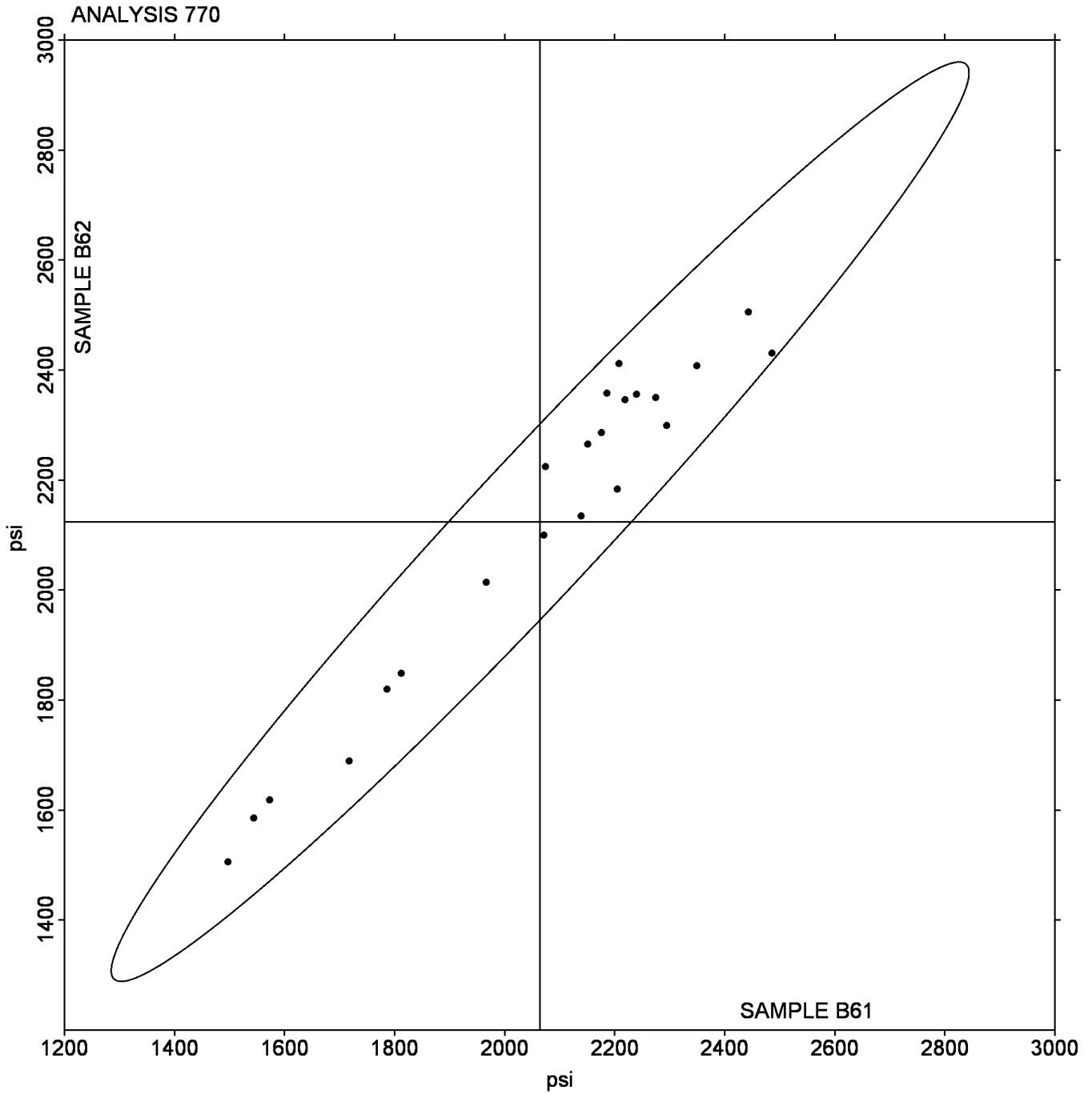
(TY) - Toyoseiki

(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 B61: 2,064.50 psi Grand Mean Sample B62: 2,124.23 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 B61			Sample B62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1DXC6R		3,579	-140	-0.43	3,732	-10	-0.03	IM
2ZL92U		3,663	-57	-0.17	3,186	-556	-1.52	SH
4EWNHH		3,957	237	0.72	3,899	157	0.43	IN
4JDFMC	*	3,615	-104	-0.32	4,261	518	1.42	IR
4LG6TT		3,757	37	0.11	3,757	14	0.04	XX
4SFXT9		3,954	234	0.71	3,890	148	0.40	XX
881X2W	X	2,040	-1,680	-5.11	2,061	-1,682	-4.60	MT
8DAETR		4,051	331	1.01	3,996	254	0.70	HO
ABQ5AV		2,970	-750	-2.28	3,027	-715	-1.96	UC
AT9HLU		3,560	-160	-0.49	3,729	-13	-0.03	IN
BTWCBG		4,019	299	0.91	4,262	520	1.42	IN
CFJGQS		3,161	-559	-1.70	3,046	-696	-1.91	IN
CFMZSV		4,040	320	0.97	3,829	87	0.24	TH
CYYUFV		3,804	84	0.26	3,691	-51	-0.14	IN
EH4LB1		3,185	-534	-1.63	3,236	-506	-1.38	IN
FCKW8Q		3,800	81	0.25	3,862	120	0.33	IN
HQ16LZ		4,064	345	1.05	4,090	348	0.95	IN
HYGLXU		4,234	514	1.56	4,229	487	1.33	IN
M3AAWB		4,112	392	1.19	4,166	424	1.16	TY
NQST4J		3,234	-485	-1.48	3,137	-605	-1.66	XX
PGST5G		3,376	-343	-1.04	3,711	-31	-0.08	IN
QU1PBR		3,780	60	0.18	3,713	-29	-0.08	UC
SDQ6SC		3,622	-98	-0.30	3,685	-57	-0.16	IN
UQMA5F		3,772	52	0.16	3,722	-20	-0.06	IN
WMKTKJ		3,916	196	0.60	3,976	234	0.64	IM
ZQX1Q4		3,771	51	0.15	3,721	-21	-0.06	TH

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

Summary Statistics	
Grand Means	
3,719.8 psi	3,742.1 psi
Std Dev Btwn Labs	
328.9 psi	365.3 psi
Statistics based on 25 of 26 reporting participants	

Sample B61: LDPE & **Sample B62:** LDPE

Comments on assigned Data Flags for Test #771

881X2W (X) - Low data for all samples.

Instrument Code List as Reported by the Labs

(HO) - Hounsfield Instruments

(IM) - Instru-Met Instruments

(IN) - Instron

(IR) - Instron with retrofit

(MT) - MTS/Sintech

(SH) - Shimadzu

(TH) - Thwing Albert

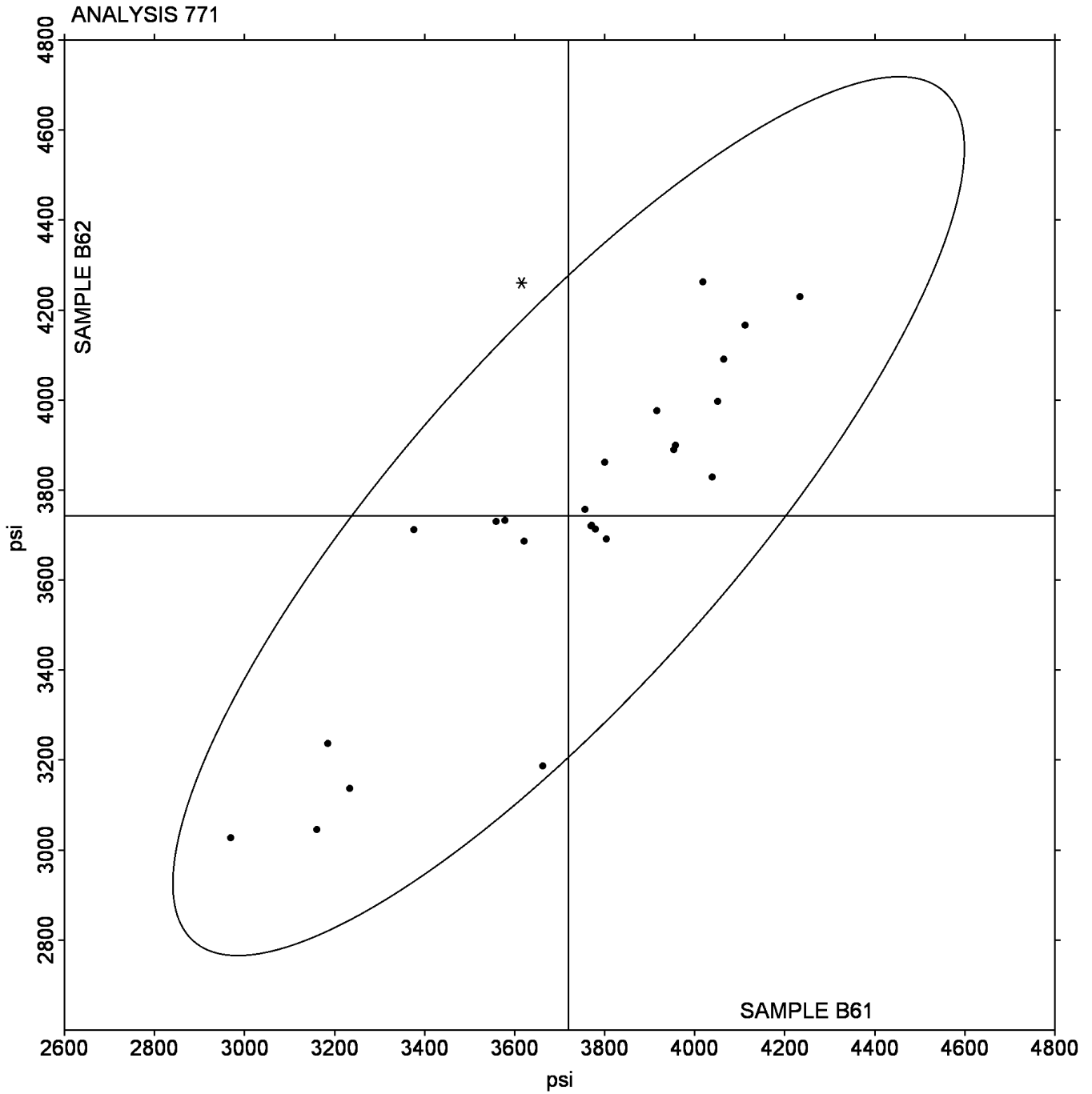
(TY) - Toyoseiki

(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 B61: 3,719.80 psi Grand Mean Sample B62: 3,742.07 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 B61			Sample B62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1DKRMG		75.90	2.43	0.05	77.28	2.82	0.06	IN
2EXSR9		105.93	32.46	0.65	108.19	33.73	0.68	IN
3ME2W4		108.60	35.13	0.70	114.10	39.64	0.80	XX
46LLWH		70.93	-2.54	-0.05	76.17	1.71	0.03	IN
4VM68J		17.11	-56.36	-1.13	17.20	-57.26	-1.16	IN
57VDGR		111.79	38.32	0.77	116.63	42.17	0.85	XX
6JN4V1		85.82	12.35	0.25	87.20	12.74	0.26	XX
7LV89W		9.96	-63.51	-1.27	9.98	-64.48	-1.30	IN
7MNQ74		89.18	15.71	0.31	86.49	12.03	0.24	IN
841M6W		6.22	-67.25	-1.35	6.30	-68.16	-1.38	MT
CPWYCC		23.92	-49.55	-0.99	23.06	-51.40	-1.04	IM
HB37XV	*	182.90	109.43	2.19	173.80	99.34	2.01	XX
KJGM3W		12.25	-61.22	-1.22	13.70	-60.76	-1.23	UC
L875KJ		126.49	53.02	1.06	121.35	46.89	0.95	IN
M7HCPL		98.78	25.31	0.51	101.54	27.08	0.55	XX
N2L9XT		95.26	21.79	0.44	100.40	25.94	0.52	IR
QJYWSL		92.10	18.62	0.37	98.17	23.71	0.48	IM
TLTSQC		9.36	-64.11	-1.28	8.69	-65.77	-1.33	IN

Summary Statistics	
Grand Means	
73.472 Percent	74.459 Percent
Std Dev Btwn Labs	
49.978 Percent	49.457 Percent
Statistics based on 18 of 18 reporting participants	

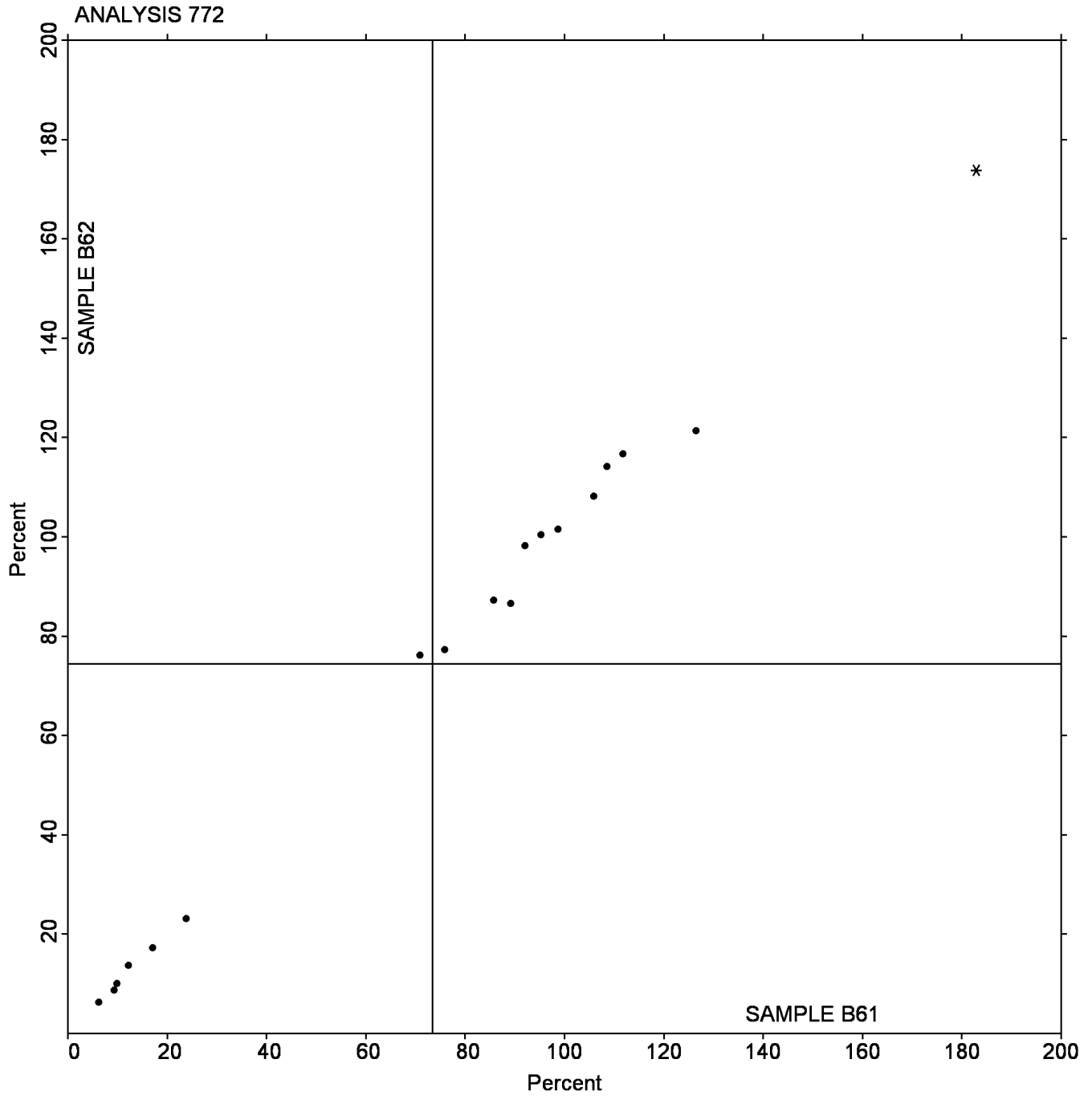
Sample B61: LDPE & Sample B62: LDPE

Instrument Code List as Reported by the Labs

- | | |
|-------------------------------|---|
| (IM) - Instru-Met Instruments | (IN) - Instron |
| (IR) - Instron with retrofit | (MT) - MTS/Sintech |
| (UC) - United | (XX) - Instrument manufacturer not specified by lab |

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

Grand Mean Sample B61: 73.472 Percent Grand Mean Sample B62: 74.459 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 B61			Sample B62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1MHPY5		850.4	160.5	1.01	807.8	137.6	0.86	IN
2441C4	*	214.0	-475.9	-2.99	198.0	-472.2	-2.94	MT
3YXYBE		550.2	-139.7	-0.88	546.5	-123.6	-0.77	IN
53HHV2		667.6	-22.3	-0.14	609.5	-60.7	-0.38	XX
68MP1X		622.1	-67.8	-0.43	594.5	-75.7	-0.47	TH
714LM1		718.5	28.6	0.18	692.2	22.0	0.14	TH
79C2A1		366.6	-323.3	-2.03	339.3	-330.9	-2.06	XX
8BK6NW		796.7	106.8	0.67	760.8	90.6	0.56	IN
96MQB7		861.9	172.0	1.08	842.9	172.7	1.08	XX
98HGT2		756.9	67.0	0.42	722.8	52.7	0.33	IM
9NPCVV		508.6	-181.4	-1.14	455.7	-214.5	-1.34	XX
AAHLTM		810.0	120.1	0.75	770.4	100.2	0.62	XX
DFGNKX		711.2	21.2	0.13	684.8	14.6	0.09	XX
LGXV1K		626.8	-63.2	-0.40	628.7	-41.5	-0.26	IN
MPHHZ1		866.5	176.6	1.11	872.5	202.3	1.26	IN
NF5UDD		733.2	43.3	0.27	750.2	80.0	0.50	XX
PFENQM		879.3	189.4	1.19	883.1	212.9	1.33	IN
PL7XSY		613.5	-76.4	-0.48	578.2	-92.0	-0.57	IN
QQYB67	*	866.6	176.7	1.11	756.6	86.4	0.54	SH
R1JX89		585.3	-104.7	-0.66	591.8	-78.4	-0.49	HO
URH3LD		683.7	-6.3	-0.04	691.0	20.8	0.13	IN
X96S7K		768.5	78.6	0.49	805.2	135.0	0.84	IR
YVPK1R		719.5	29.6	0.19	726.0	55.8	0.35	IM
ZDXJNE		764.2	74.3	0.47	746.1	75.9	0.47	XX
ZR2V3C		707.0	17.1	0.11	699.4	29.2	0.18	XX

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

Summary Statistics**Grand Means**

689.95 Percent

670.16 Percent

Std Dev Btwn Labs

159.33 Percent

160.53 Percent

Statistics based on 25 of 25 reporting participants**Sample B61: LDPE & Sample B62: LDPE****Instrument Code List as Reported by the Labs**

(HO) - Hounsfield Instruments

(IM) - Instru-Met Instruments

(IN) - Instron

(IR) - Instron with retrofit

(MT) - MTS/Sintech

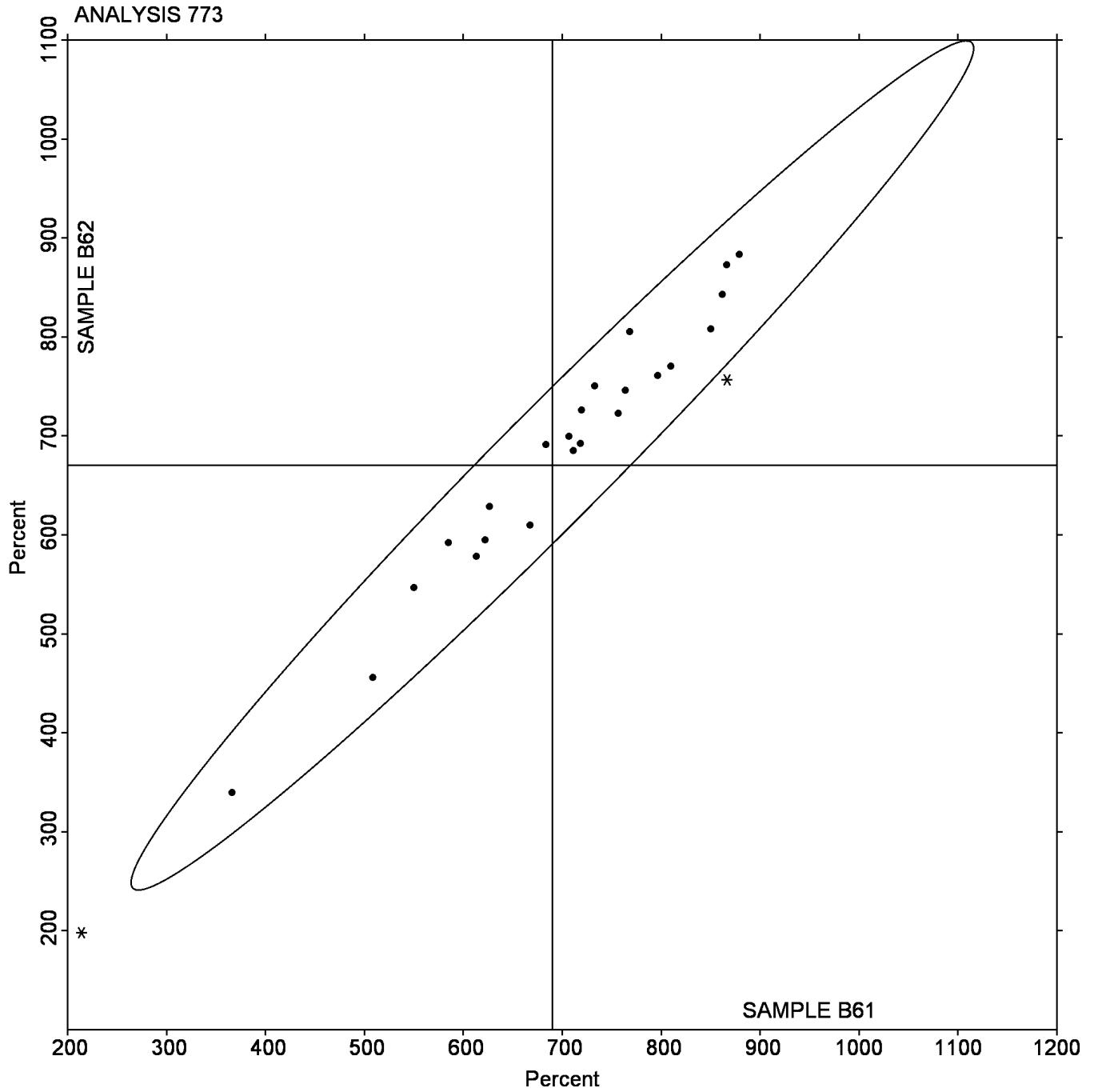
(SH) - Shimadzu

(TH) - Thwing Albert

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B61: 689.95 Percent Grand Mean Sample B62: 670.16 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 B61			Sample B62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2B1V8E		2.8500	-0.0171	-0.15	2.8000	-0.0307	-0.41	XX
2XKPKU		2.9900	0.1229	1.09	2.8590	0.0283	0.38	XX
5U6J3B		2.8000	-0.0671	-0.59	2.8300	-0.0007	-0.01	XX
73K7NB		2.6400	-0.2271	-2.01	2.6760	-0.1547	-2.08	XX
82574L		2.9331	0.0660	0.58	2.8858	0.0552	0.74	XX
8DHW8N	X	2.7480	-0.1191	-1.05	3.0433	0.2126	2.87	XX
8G2TUT		2.9550	0.0879	0.78	2.8950	0.0643	0.87	XX
ADH2X4		2.7205	-0.1466	-1.30	2.7598	-0.0708	-0.95	XX
AJA1BX	X	3.1900	0.3229	2.86	3.3300	0.4993	6.73	XX
C49XCR		2.9100	0.0429	0.38	2.8750	0.0443	0.60	XX
CFZWWZ		2.9100	0.0429	0.38	2.8200	-0.0107	-0.14	XX
CLJ5PT		2.9804	0.1132	1.00	2.8504	0.0198	0.27	XX
DDNTR9		2.9690	0.1019	0.90	2.8720	0.0413	0.56	XX
GLFBSF		2.8000	-0.0671	-0.59	2.8250	-0.0057	-0.08	XX
HB9TUH		2.7560	-0.1112	-0.98	2.7599	-0.0708	-0.95	XX
HDWDC7		2.9210	0.0539	0.48	2.9470	0.1163	1.57	XX
HLDQST		2.9840	0.1169	1.03	2.8590	0.0283	0.38	XX
J7H2WS	X	3.0000	0.1329	1.18	3.1500	0.3193	4.30	XX
K5RHAK		2.9020	0.0349	0.31	2.8520	0.0213	0.29	XX
KB4VWS		2.8350	-0.0321	-0.28	2.8350	0.0043	0.06	XX
KWMR5H		2.9250	0.0579	0.51	2.8450	0.0143	0.19	XX
LTH633		2.9070	0.0399	0.35	2.8580	0.0273	0.37	XX
M2NKCK		3.0000	0.1329	1.18	2.8500	0.0193	0.26	XX
MFBMYJ		2.8000	-0.0671	-0.59	2.7380	-0.0927	-1.25	XX
Q3WM2F	*	3.0000	0.1329	1.18	3.0000	0.1693	2.28	XX
UNJSPD	*	2.5500	-0.3171	-2.81	2.6500	-0.1807	-2.44	XX
VULFLC		2.8800	0.0129	0.11	2.8700	0.0393	0.53	XX
Z64AFT		2.8320	-0.0351	-0.31	2.7900	-0.0407	-0.55	XX
ZXNQ2X		2.7953	-0.0718	-0.64	2.7953	-0.0354	-0.48	XX

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

Summary Statistics	
Grand Means	
2.86712 mils	2.83066 mils
Std Dev Btwn Labs	
0.11305 mils	0.07418 mils
Statistics based on 26 of 29 reporting participants	

Sample B61: LDPE & **Sample B62:** LDPE

Comments on assigned Data Flags for Test #774

8DHW8N (X) - Low data for Sample B62 .

AJA1BX (X) - High data for all samples.

J7H2WS (X) - High data for Sample B62.

Instrument Code List as Reported by the Labs

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

**Plastics Interlaboratory Testing Program
Analysis 775**

Secant Modulus at 1% Strain - psi

WebCode	Data Flag	Sample B61			Sample B62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
64WMGB		37,713	6,801	1.22	39,057	7,457	1.25	IN
7B3XNF		32,604	1,692	0.30	33,499	1,899	0.32	IN
ALYYZA		30,435	-478	-0.09	30,138	-1,462	-0.25	IM
BA8VUV		17,570	-13,342	-2.39	17,500	-14,100	-2.37	IN
CDS2XP		30,752	-161	-0.03	30,804	-795	-0.13	IN
KBZZ6N		33,073	2,160	0.39	32,007	407	0.07	UC
PBP7EM		34,312	3,400	0.61	34,553	2,954	0.50	IM
PL8KED		29,262	-1,651	-0.30	31,614	14	0.00	IN
VAU7PG		32,490	1,578	0.28	35,224	3,625	0.61	IN

Summary Statistics

Grand Means

30,912.2 psi

31,599.3 psi

Std Dev Btwn Labs

5,577.0 psi

5,945.8 psi

Statistics based on 9 of 9 reporting participants

Sample B61: LDPE & Sample B62: LDPE

Instrument Code List as Reported by the Labs

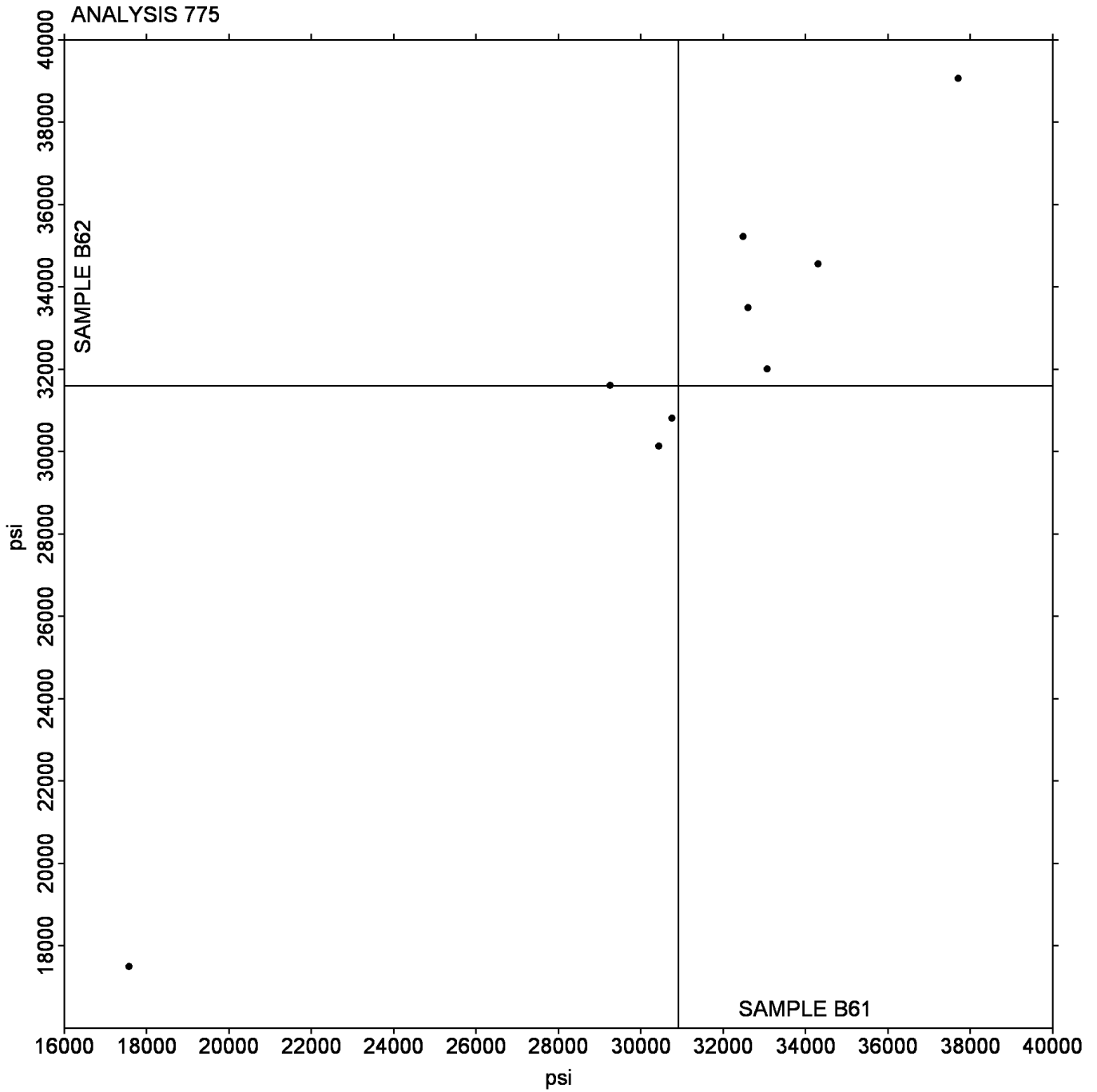
(IM) - Instru-Met Instruments

(IN) - Instron

(UC) - United

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

Grand Mean Sample B61: 30,912.21 psi Grand Mean Sample B62: 31,599.33 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 B61			Sample B62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
6DTTKW		25,603	-801	-0.18	27,501	516	0.11	IN
8Q55GY	X	130,349	103,945	23.86	127,364	100,379	21.42	MT
DYVBNX		29,187	2,783	0.64	29,496	2,511	0.54	IM
FXSNMS		28,123	1,719	0.39	27,388	403	0.09	UC
H6YPV3		26,156	-248	-0.06	25,357	-1,628	-0.35	IM
KYSTUF		26,399	-5	0.00	26,556	-429	-0.09	IN
U436LC		16,586	-9,818	-2.25	16,824	-10,161	-2.17	IN
UEUWSJ		28,044	1,640	0.38	30,298	3,313	0.71	IN
Y9ARCK		31,133	4,729	1.09	32,461	5,476	1.17	IN

Summary Statistics

Grand Means

26,404.0 psi

26,985.3 psi

Std Dev Btwn Labs

4,356.3 psi

4,687.1 psi

Statistics based on 8 of 9 reporting participants

Sample B61: LDPE & **Sample B62:** LDPE

Comments on assigned Data Flags for Test #776

8Q55GY (X) - High data for all samples.

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

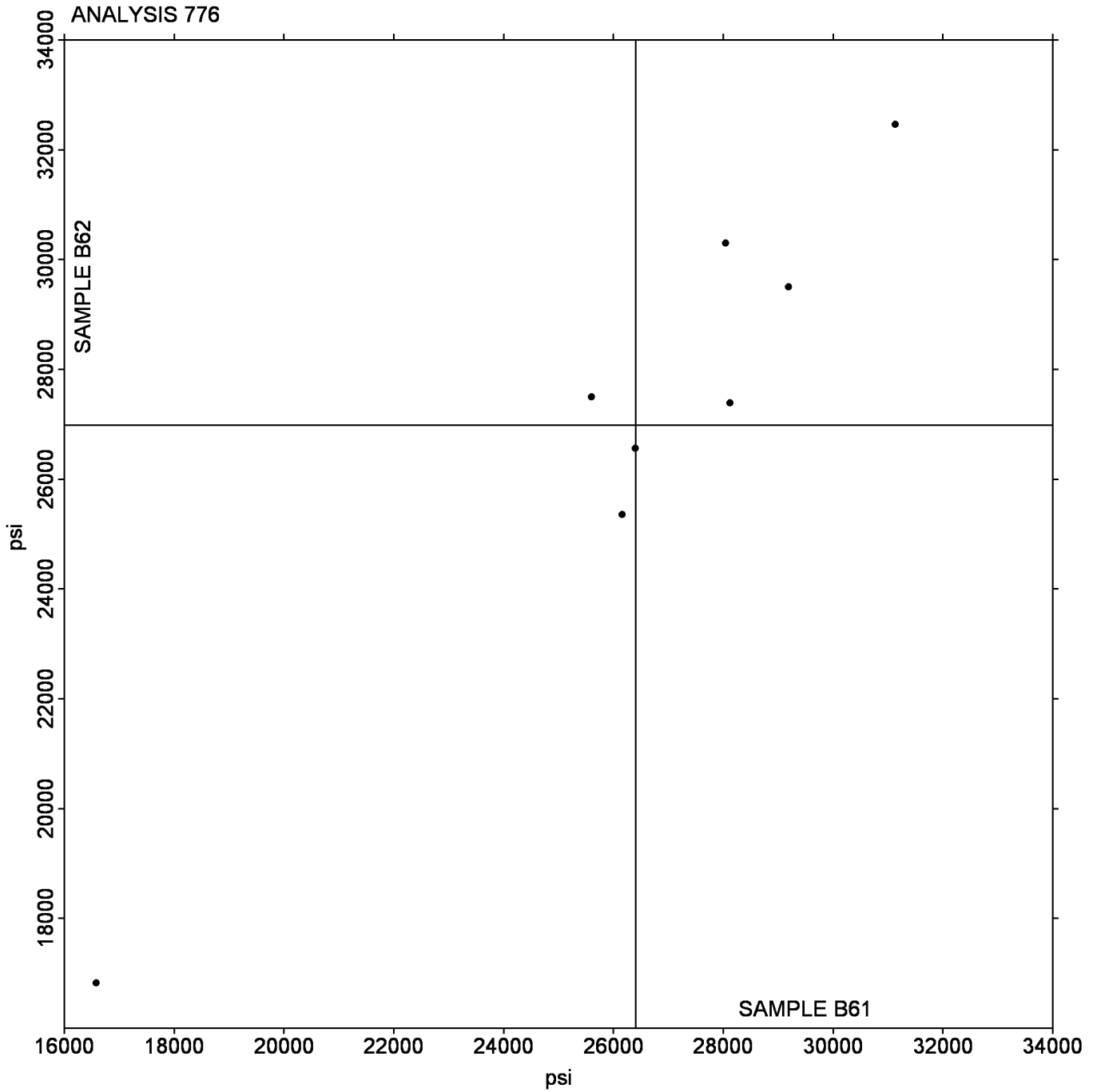
(IN) - Instron

(MT) - MTS/Sintech

(UC) - United

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

Grand Mean Sample B61: 26,404.01 psi Grand Mean Sample B62: 26,985.28 psi



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

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

WebCode	Data Flag	Sample P61			Sample P62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
4RPFGT		0.1920	-0.0001	0.00	0.1760	-0.0218	-0.40	SA
6468F5		0.1642	-0.0279	-0.55	0.2008	0.0030	0.05	CH
649GJ5		0.1420	-0.0501	-0.99	0.1340	-0.0638	-1.16	XX
6DZ8HB		0.1916	-0.0005	-0.01	0.1908	-0.0070	-0.13	UT
BY8S77		0.1290	-0.0631	-1.24	0.1300	-0.0678	-1.23	TM
CU299Q		0.1424	-0.0497	-0.98	0.1702	-0.0276	-0.50	TH
H3ZDZ3		0.1772	-0.0149	-0.29	0.1520	-0.0458	-0.83	TH
JZ1BUS		0.1634	-0.0287	-0.57	0.2330	0.0352	0.64	TN
MJQAGT		0.2546	0.0625	1.23	0.2438	0.0460	0.84	UT
MX95PD	*	0.2980	0.1059	2.09	0.3580	0.1602	2.91	KA
P4M7TY		0.2510	0.0589	1.16	0.2008	0.0030	0.05	TH
PJ1W2D		0.1570	-0.0351	-0.69	0.1638	-0.0340	-0.62	DY
QGGZGU		0.1526	-0.0396	-0.78	0.1573	-0.0405	-0.74	IG
QZLAXC		0.2512	0.0591	1.16	0.2704	0.0726	1.32	IS
T84VPE		0.2486	0.0565	1.11	0.2562	0.0584	1.06	TN
U1FLL9		0.1584	-0.0337	-0.66	0.1976	-0.0002	0.00	IP
VNH4W9		0.1760	-0.0161	-0.32	0.1834	-0.0144	-0.26	TH
WVN746		0.1766	-0.0155	-0.31	0.1664	-0.0314	-0.57	TN
Y7S45B		0.1204	-0.0717	-1.41	0.1304	-0.0674	-1.23	TH
Z9G44D		0.2302	0.0381	0.75	0.2442	0.0464	0.84	IG
ZYL1X1		0.2582	0.0661	1.30	0.1952	-0.0026	-0.05	MS

Summary Statistics			
Grand Means	0.19212	COF	0.19782
			COF
Std Dev Btwn Labs	0.05072	COF	0.05498
			COF
Statistics based on 21 of 21 reporting participants			

Sample P61: LDPE & Sample P62: LDPE

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.

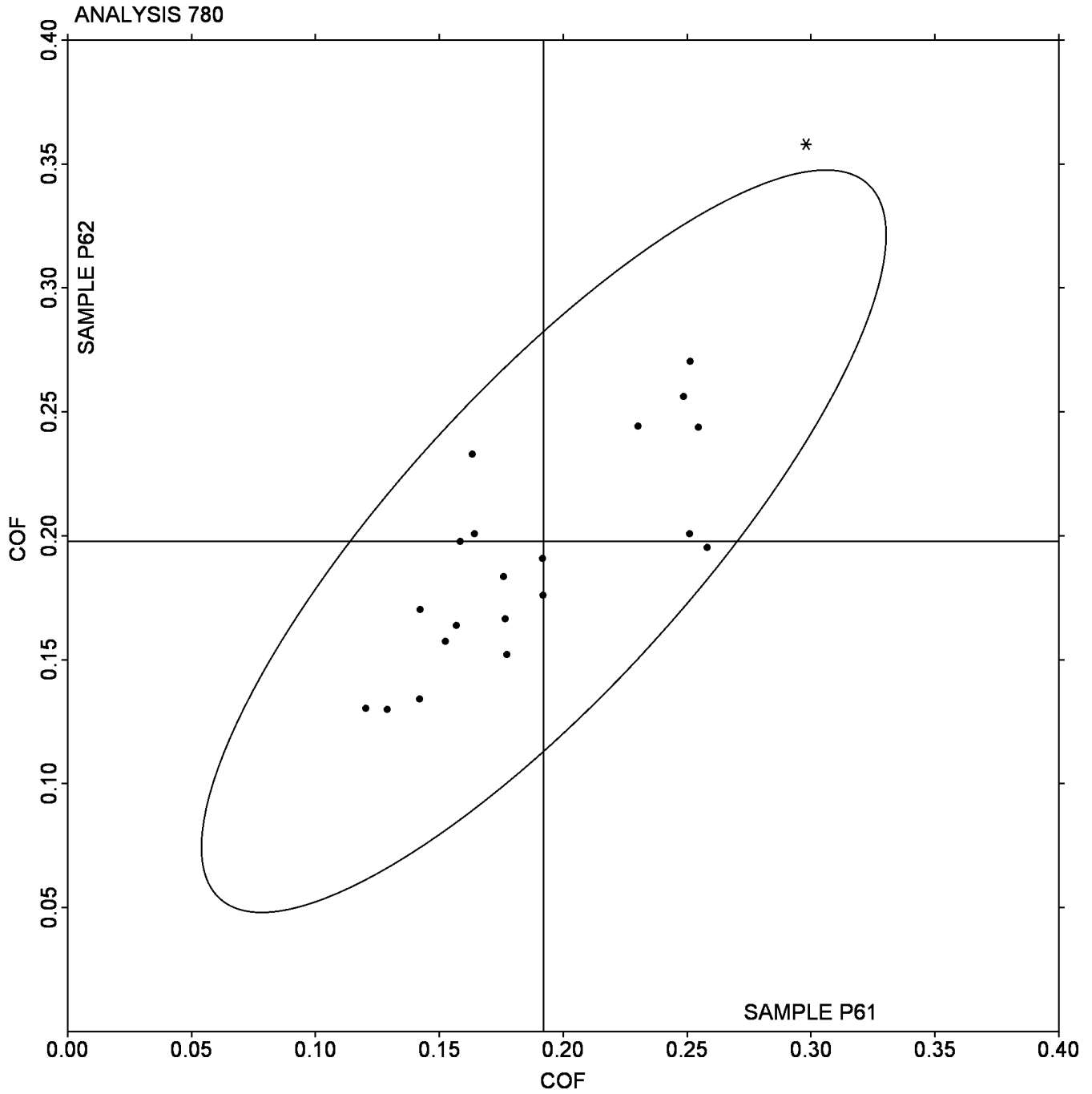
(SA) - Shimadzu Autograph AG 2000 A

(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 P61: 0.19212 COF Grand Mean Sample P62: 0.19782 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 P61			Sample P62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
19NNTU		0.1318	0.0057	0.22	0.1182	-0.0114	-0.43	TN
4FRS65		0.1326	0.0065	0.25	0.1366	0.0070	0.26	IG
689VH9		0.1930	0.0669	2.57	0.1962	0.0666	2.49	UT
7ZG7T6		0.1386	0.0125	0.48	0.1652	0.0356	1.33	TN
96WW25		0.1148	-0.0113	-0.43	0.1076	-0.0220	-0.82	TM
B32S6A		0.1012	-0.0249	-0.96	0.0884	-0.0412	-1.54	TH
CUHQ2X	*	0.0830	-0.0431	-1.66	0.1294	-0.0002	-0.01	CH
FYBC14		0.1455	0.0194	0.75	0.1500	0.0204	0.76	IG
GXS3EJ		0.1562	0.0301	1.16	0.1548	0.0252	0.94	MS
H89XBV		0.1048	-0.0213	-0.82	0.1158	-0.0138	-0.52	UT
HSCRVL		0.1196	-0.0065	-0.25	0.1160	-0.0136	-0.51	TH
HTXFKL		0.1318	0.0057	0.22	0.1392	0.0096	0.36	IP
JT7HDS		0.1100	-0.0161	-0.62	0.1080	-0.0216	-0.81	XX
LMDYDG		0.1538	0.0277	1.07	0.1560	0.0264	0.99	IS
MTCBVG		0.1116	-0.0145	-0.56	0.1164	-0.0132	-0.49	DY
PQKSFH		0.1560	0.0299	1.15	0.1574	0.0278	1.04	TN
Q4LJ48		0.1080	-0.0181	-0.70	0.1140	-0.0156	-0.58	SA
S1HYF7		0.1028	-0.0233	-0.90	0.1028	-0.0268	-1.00	TH
VP82WF		0.0992	-0.0269	-1.03	0.1016	-0.0280	-1.05	TH
WT5Y7S		0.1274	0.0013	0.05	0.1186	-0.0110	-0.41	TH

Summary Statistics			
Grand Means	0.12609	COF	0.12961
			COF
Std Dev Btwn Labs	0.02601	COF	0.02672
			COF
Statistics based on 20 of 20 reporting participants			

Sample P61: LDPE & Sample P62: 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

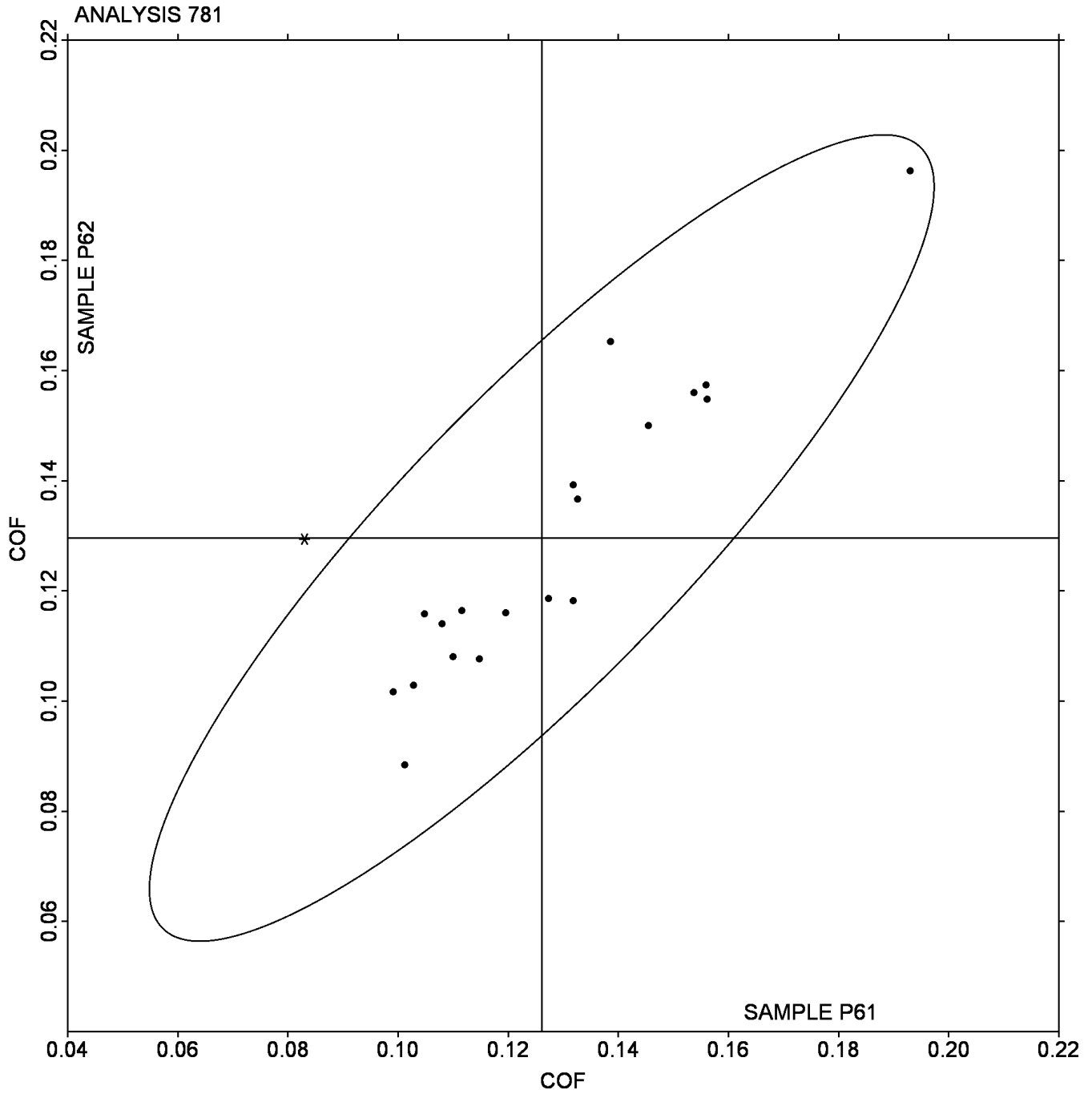
(TH) - Thwing Albert Friction/Peel Tester Model 225-1

(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 P61: 0.12609 COF Grand Mean Sample P62: 0.12961 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 Q61			Sample Q62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
AWLUF4		171.8	13.9	0.26	204.2	31.3	0.61	TF
B7PVHL		91.4	-66.5	-1.26	122.4	-50.5	-0.98	LO
C49DMN		252.8	94.9	1.79	295.4	122.5	2.38	AL
DYLPNG		81.8	-76.0	-1.44	166.7	-6.2	-0.12	XX
EFGM3S	X	1,775.5	1,617.6	30.54	1,166.7	993.8	19.29	CD
HF5ZBL		143.2	-14.7	-0.28	141.6	-31.3	-0.61	TE
NYZLHK		193.6	35.7	0.67	186.8	13.9	0.27	EM
SEWLPW		107.2	-50.7	-0.96	134.4	-38.5	-0.75	TH
Y1UDVM		165.9	8.0	0.15	122.3	-50.6	-0.98	TE
Y6Z8H3		175.7	17.8	0.34	172.5	-0.4	-0.01	TE
ZZCKUC		195.4	37.5	0.71	182.6	9.8	0.19	TE

Summary Statistics	
Grand Means	
157.88 grams-force	172.89 grams-force
Std Dev Btwn Labs	
52.98 grams-force	51.52 grams-force
Statistics based on 10 of 11 reporting participants	

Sample Q61: LDPE & Sample Q62: LDPE

Comments on assigned Data Flags for Test #782

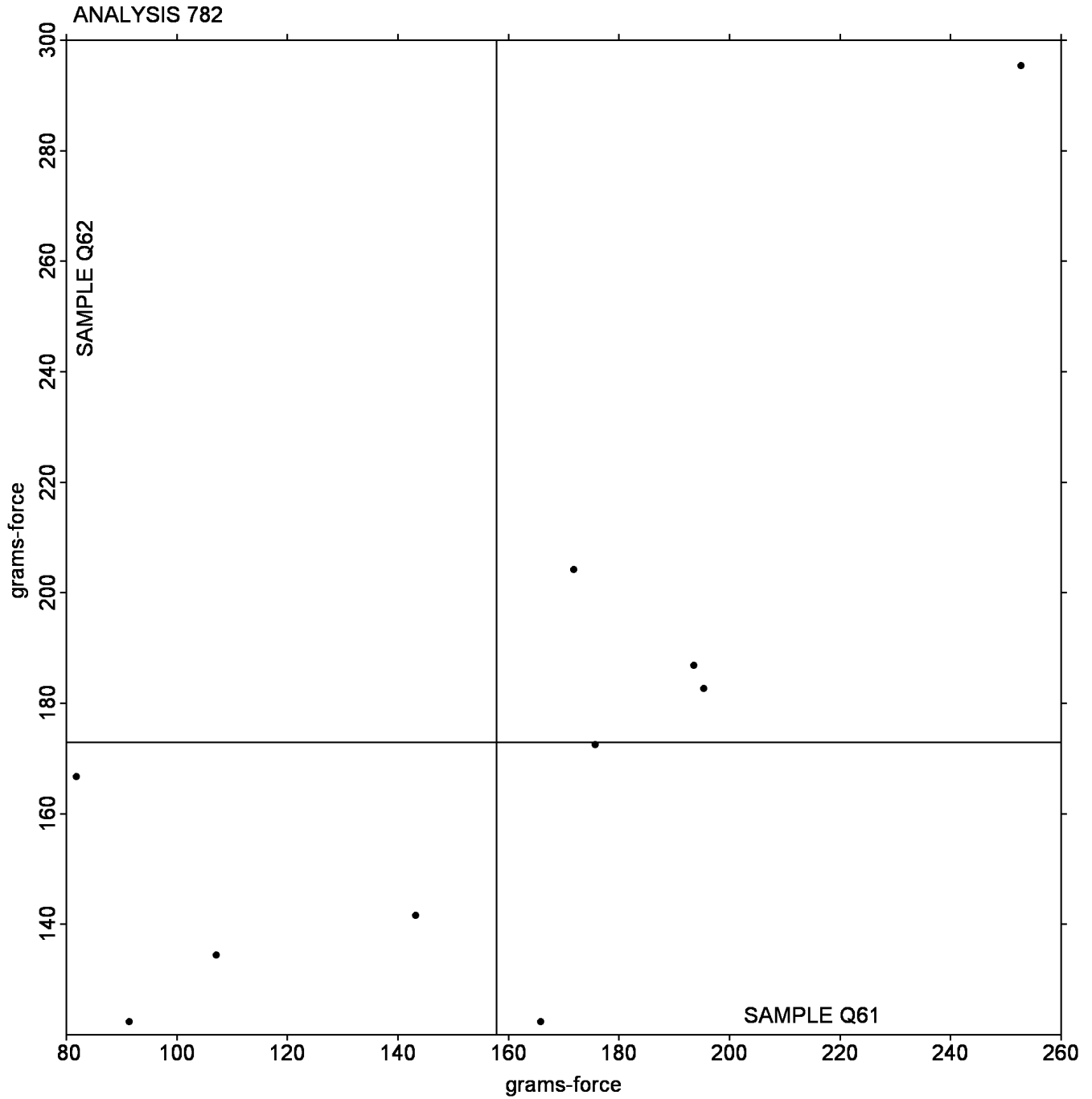
EFGM3S (X) - Extreme data. Lab indicated reporting in gf, but data appear to be in mN.

Instrument Code List as Reported by the Labs

- | | |
|----------------------------------|---|
| (AL) - Adamel Lhomargy ED20 | (CD) - Ceast ED-30 |
| (EM) - Elmendorf Tear Tester | (LO) - Lorentzen & Wettre Model II |
| (TE) - Thwing-Albert Pro Tear | (TF) - Thwing-Albert Model 60-1500 |
| (TH) - Thwing-Albert Model 60-16 | (XX) - Instrument make/model not specified by lab |

Plastics Interlaboratory Testing Program
Analysis 782
Tear Resistance of Films

Grand Mean Sample Q61: 157.88 grams-force Grand Mean Sample Q62: 172.89 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 D61			Sample D62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1R3H8C		19.038	-0.273	-0.23	18.513	-0.011	-0.01	MA
2SKLZB		19.650	0.339	0.28	19.025	0.501	0.50	BJ
5RDHWA		19.750	0.439	0.37	19.663	1.139	1.13	BJ
5SKJCU		19.936	0.625	0.53	19.273	0.749	0.75	MA
5TRH13		18.163	-1.148	-0.96	18.125	-0.399	-0.40	BH
6MP53S		19.813	0.502	0.42	17.700	-0.824	-0.82	BJ
7D6T5X		17.938	-1.373	-1.15	17.288	-1.236	-1.23	BH
8HT2FP		19.138	-0.173	-0.15	18.725	0.201	0.20	BJ
BHDUZX		17.063	-2.248	-1.89	16.556	-1.968	-1.96	HC
BX5CA8	*	20.500	1.189	1.00	17.400	-1.124	-1.12	BJ
C1DMFC		17.845	-1.466	-1.23	17.743	-0.781	-0.78	HL
F2QPL6		19.588	0.277	0.23	18.384	-0.140	-0.14	XX
HUJTKK		21.116	1.805	1.52	19.663	1.139	1.13	BT
KP94HF		20.125	0.814	0.68	19.638	1.114	1.11	BJ
L8ZRD4		19.563	0.252	0.21	18.925	0.401	0.40	BJ
LHVWZW		19.538	0.227	0.19	19.138	0.614	0.61	BJ
P56BMB		19.025	-0.286	-0.24	18.863	0.339	0.34	BJ
PDE24G		19.750	0.439	0.37	19.838	1.314	1.31	BJ
QRE2GK		20.450	1.139	0.96	18.188	-0.336	-0.34	BJ
SKJQ2T		20.000	0.689	0.58	19.063	0.539	0.54	BJ
X7NC8B	*	16.066	-3.245	-2.72	16.156	-2.368	-2.36	HL
Y1XKDN		19.525	0.214	0.18	18.700	0.176	0.18	BG
ZJRDQL		20.575	1.264	1.06	19.488	0.964	0.96	BJ

Summary Statistics			
Grand Means	19.3109	Percent	18.5239
Std Dev Btwn Labs	1.1911	Percent	1.0037
Statistics based on 23 of 23 reporting participants			

Sample D61: LDPE & Sample D62: LDPE

Plastics Interlaboratory Testing Program
Analysis 785
Percent Haze of Film

Instrument Code List as Reported by the Labs

(BG) - BYK-Gardner/Pacific Scientific

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

(BJ) - BYK-Gardner Haze-Gard Plus

(BT) - BYK Gardner TCS Plus Spectrophotometer

(HC) - Hunterlab ColorQuest

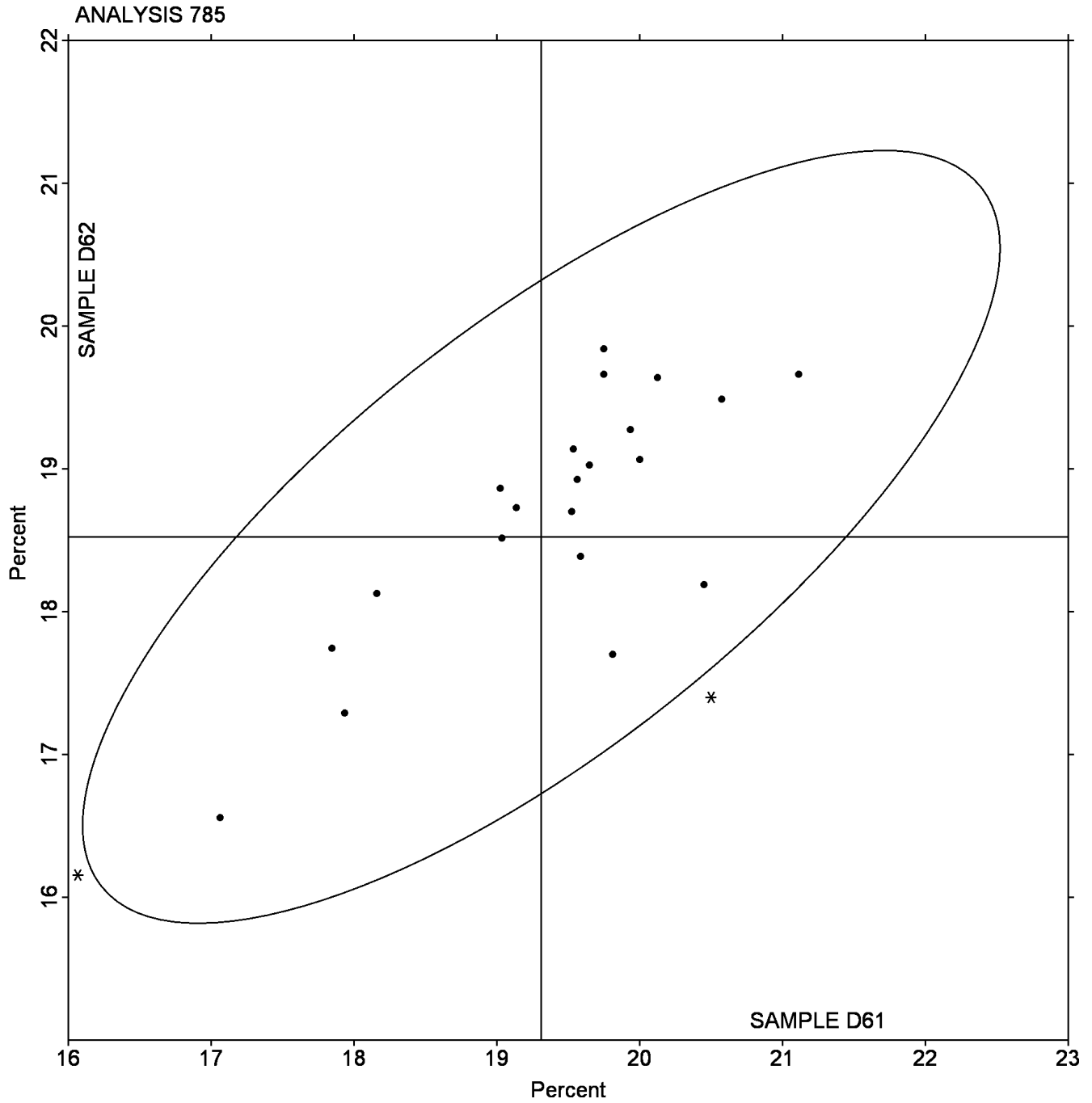
(HL) - Hunterlab Ultrascan XE

(MA) - Macbeth 7000A

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

Plastics Interlaboratory Testing Program
Analysis 785
Percent Haze of Film

Grand Mean Sample D61: 19.311 Percent Grand Mean Sample D62: 18.524 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 D61			Sample D62			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2YX7H8		93.76	0.80	0.67	93.94	1.00	0.85	BJ
3SQCRH		93.25	0.28	0.24	93.10	0.17	0.14	BJ
51V8XE		93.65	0.68	0.57	93.64	0.70	0.60	BJ
779CVY		93.35	0.38	0.32	93.21	0.28	0.24	BJ
7CKJHW		90.59	-2.37	-1.99	90.58	-2.36	-2.00	HL
7NYMH3		93.51	0.55	0.46	93.48	0.54	0.46	BJ
9ABSZ8		91.38	-1.59	-1.33	91.36	-1.57	-1.34	BJ
CWEBKC		90.86	-2.10	-1.76	90.76	-2.17	-1.84	HL
CXN7LN		93.90	0.93	0.78	93.80	0.87	0.73	BJ
EGHMUY		93.46	0.50	0.42	93.50	0.57	0.48	BJ
GNZAKR		91.70	-1.27	-1.06	91.71	-1.22	-1.04	BH
HGHK6G		91.85	-1.11	-0.93	91.97	-0.97	-0.82	MA
HYLKBJ		91.79	-1.18	-0.99	91.79	-1.15	-0.97	BJ
MZHHNL		93.38	0.41	0.34	93.46	0.53	0.45	MA
NQSU59		94.55	1.58	1.33	94.40	1.47	1.24	BJ
Q2Z44J		94.90	1.94	1.62	94.85	1.91	1.62	HC
R297VV		92.80	-0.17	-0.14	92.91	-0.02	-0.02	XX
TKUCVM		93.45	0.48	0.40	93.48	0.54	0.46	BJ
TU3BT8		93.80	0.83	0.70	93.63	0.69	0.59	BT
Y38Z7P		93.39	0.42	0.35	93.15	0.22	0.18	BG

Summary Statistics

Grand Means

92.966 Percent

92.935 Percent

Std Dev Btwn Labs

1.195 Percent

1.178 Percent

Statistics based on 20 of 20 reporting participants

Sample D61: LDPE & Sample D62: 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

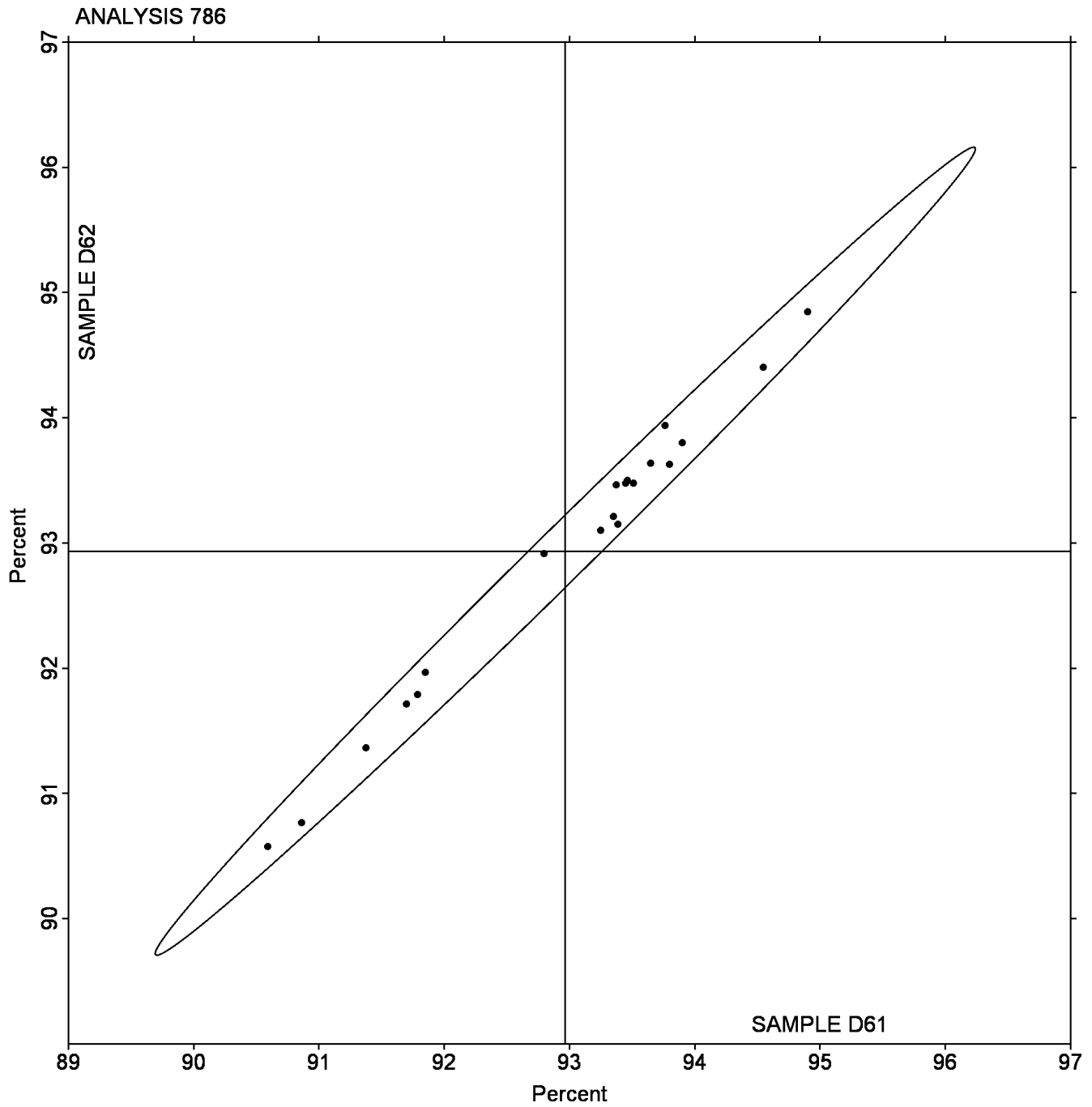
(BT) - BYK Gardner TCS Plus Spectrophotometer

(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 D61: 92.966 Percent Grand Mean Sample D62: 92.935 Percent



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