

Plastics Interlaboratory Testing Program

Web Summary Report #57, 1st Qtr 2006

[About CTS and the Plastics Interlaboratory Program](#)

[Key for Web Summary Report](#)

[Results Summary for this Report](#)

Analysis	Analysis Name	Analysis	Analysis Name
704	Tensile Stress at Yield, Plastic Samples	718	Specific Gravity
705	Tensile Stress at Break, Plastic Samples	757	Ash Content in Thermoplastics
706	Percent Elongation at Yield, Plastic Samples	770	Tensile Stress at Yield, Film Samples
708	Modulus of Elasticity, Plastic Samples	771	Tensile Stress at Break, Film Samples
730	Tensile Stress at Yield, ISO Plastic Samples	772	Percent Elongation at Yield, Film Samples
731	Tensile Stress at Break, ISO Plastic Samples	773	Percent Elongation at Break, Film Samples
732	Percent Strain at Yield, ISO Plastic Samples	774	Thickness of Film Tensile Samples
734	Modulus of Elasticity, ISO Plastic Samples	780	Coefficient of Friction: Static
720	Flexural Modulus	781	Coefficient of Friction: Kinetic
721	Flexural Stress at 5% Strain	782	Tear Resistance of Films
722	Flexural Stress at Yield	785	Optical Properties of Films - Percent Haze
736	Flexural Modulus, ISO Plastic Samples	786	Optical Properties of Films: % Transmittance
737	Flexural Stress at 3.5% Strain		
738	Flexural Stress at Yield		
790	Notched Izod Impact		
792	Notched Charpy Impact, ISO Plastic Samples		
710	Deflection Temp. Under Flexural Load (1.82 MPa)		
711	Deflection Temp. Under Flexural Load (0.455 MPa)		
712	Temp. of Deflection Under Flexural Load 1.80 MPa		
715	Vicat Softening Temperature (Rate A)		
716	Vicat Softening Temperature (Rate B)		
750	Flow Rates of Thermoplastics (2.16 kg load)		

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 #57

Plastics Interlaboratory Testing Program

Analysis 704 - Tensile Stress at Yield

Material: ABS	Sample F51	7,077.07	psi	1.83% COV
	Sample F52	6,738.23	psi	1.80% COV

Analysis 705 - Tensile Stress at Break

Material: ABS	Sample F51	5,097.57	psi	5.60% COV
	Sample F52	4,893.64	psi	4.32% COV

Analysis 706 - Percent Elongation at Yield

Material: ABS	Sample F51	2.7121	Percent	4.59% COV
	Sample F52	2.3667	Percent	5.76% COV

Analysis 708 - Modulus of Elasticity

Material: ABS	Sample F51	348.69	ksi	6.24% COV
	Sample F52	360.03	ksi	5.95% COV

Analysis 730 - Tensile Stress at Yield, ISO Method

Material: ABS	Sample C51	47.890	MPa	2.13% COV
	Sample C52	45.070	MPa	2.16% COV

Analysis 731 - Tensile Stress at Break, ISO Method

Material: ABS	Sample C51	34.799	MPa	5.36% COV
	Sample C52	33.785	MPa	3.49% COV

Analysis 732 - Strain at Yield, ISO Method

Material: ABS	Sample C51	2.5813	Percent	4.36% COV
	Sample C52	2.2566	Percent	3.98% COV

Analysis 734 - Modulus of Elasticity, ISO Method

Material: ABS	Sample C51	2,340.85	MPa	6.41% COV
	Sample C52	2,433.17	MPa	6.51% COV

Analysis 720 - Flexural Modulus

Material: ABS	Sample J51	375.79	ksi	4.61% COV
	Sample J52	365.34	ksi	4.75% COV

Analysis 721 - Flexural Stress at 5% Strain

Material: ABS	Sample J51	10,638.51	psi	3.37% COV
	Sample J52	10,965.78	psi	3.49% COV

Analysis 722 - Flexural Stress at Yield

Material: ABS	Sample J51	10,668.67	psi	2.70% COV
	Sample J52	10,988.92	psi	2.73% COV

Analysis 736 - Flexural Modulus

Material: ABS	Sample K51	2,486.73	MPa	3.82% COV
	Sample K52	2,418.57	MPa	3.84% COV

Analysis 737 - Flexural Stress at 3.5% Strain

Material: ABS	Sample K51	71.898	MPa	2.36% COV
	Sample K52	72.999	MPa	2.26% COV

Analysis 738 - Flexural Stress at Yield

Material: ABS	Sample K51	72.212	MPa	2.65% COV
	Sample K52	74.735	MPa	2.63% COV

Results Summary for Web Summary Report #57

Plastics Interlaboratory Testing Program

Analysis 790 - Notched Izod Impact

Material: ABS	Sample S51	6.6006	ft.lbf/in	5.97% COV
	Sample S52	6.5556	ft.lbf/in	6.26% COV

Analysis 792 - Notched Charpy Impact

Material: ABS	Sample M51	24.510	kJ/m ²	8.60% COV
	Sample M52	21.312	kJ/m ²	7.62% COV

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

Material: PC	Sample E51	121.75	Degrees C	1.60% COV
	Sample E52	123.65	Degrees C	1.19% COV

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

Material: PP	Sample G51	85.490	Degrees C	3.31% COV
	Sample G52	114.71	Degrees C	2.68% COV

Analysis 712 - Temperature of Deflection (1.80 MPa)

Material: ABS	Sample N51	79.727	Degrees C	1.19% COV
	Sample N52	79.065	Degrees C	1.39% COV

Analysis 715 - Vicat Temperature (Rate A)

Material: ABS	Sample H51	105.09	Degrees C	1.11% COV
	Sample H52	105.00	Degrees C	1.17% COV

Analysis 716 - Vicat Temperature (Rate B)

Material: ABS	Sample R51	106.76	Degrees C	1.46% COV
	Sample R52	106.64	Degrees C	1.42% COV

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

Material: LDPE	Sample X51	7.1803	grams/10 mins	3.41% COV
	Sample X52	7.1819	grams/10 mins	3.38% COV

Analysis 718 - Specific Gravity

Material: ABS	Sample T51	1.0445	sp gr 23/23 C	0.183% COV
	Sample T52	1.0464	sp gr 23/23 C	0.181% COV

Analysis 757 - Ash Content

Material: PBT	Sample L51	17.902	Percent	0.940% COV
	Sample L52	15.168	Percent	0.685% COV

Analysis 770 - Tensile Stress at Yield, Films

Material: LDPE	Sample B51	2,215.79	psi	20.6% COV
	Sample B52	1,856.16	psi	24.4% COV

Analysis 771 - Tensile Stress at Break, Films

Material: LDPE	Sample B51	4,187.14	psi	19.1% COV
	Sample B52	3,071.72	psi	15.4% COV

Analysis 772 - Elongation at Yield, Films

Material: LDPE	Sample B51	39.783	Percent	83.7% COV
	Sample B52	21.909	Percent	99.3% COV

Analysis 773 - Elongation at Break, Films

Material: LDPE	Sample B51	584.75	Percent	17.1% COV
	Sample B52	371.69	Percent	22.4% COV

Results Summary for Web Summary Report #57

Plastics Interlaboratory Testing Program

Analysis 774 - Thickness of Film Specimens

Material: LDPE	Sample B51	1.9345	mils	4.21% COV
	Sample B52	2.8775	mils	3.04% COV

Analysis 780 - Static Friction

Material: LDPE	Sample P51	0.19977	COF	17.5% COV
	Sample P52	0.16534	COF	30.8% COV

Analysis 781 - Kinetic Friction

Material: LDPE	Sample P51	0.14549	COF	17.0% COV
	Sample P52	0.11711	COF	29.2% COV

Analysis 782 - Tear Resistance of Film

Material: LDPE	Sample Q51	49.498	grams-force	31.2% COV
	Sample Q52	663.49	grams-force	14.9% COV

Analysis 785 - Percent Haze

Material: PVC	Sample D51	5.3937	Percent	10.3% COV
	Sample D52	5.3864	Percent	9.03% COV

Analysis 786 - Total Transmittance

Material: PVC	Sample D51	93.244	Percent	1.05% COV
	Sample D52	93.210	Percent	1.08% COV

Analysis 704

Tensile Stress at Yield - psi

WebCode	Data Flag	Sample F51			Sample F52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
13V FY7	X	6,998.6	-78.5	-0.61	6,442.2	-296.0	-2.44
1458K4		7,185.5	108.5	0.84	6,898.1	159.8	1.32
1MYV3L		7,159.0	81.9	0.63	6,849.4	111.2	0.92
1XATFE		6,853.2	-223.9	-1.73	6,591.3	-146.9	-1.21
28UWQB		7,013.1	-64.0	-0.49	6,784.8	46.6	0.38
2CY63F		7,135.0	57.9	0.45	6,762.4	24.2	0.20
3AQSC6		7,237.0	159.9	1.24	6,885.8	147.6	1.22
3UB5HV		7,204.8	127.7	0.99	6,883.4	145.2	1.20
41VFPJ		7,002.4	-74.7	-0.58	6,774.0	35.8	0.29
42GTJ5		6,943.8	-133.3	-1.03	6,722.2	-16.0	-0.13
4CZBAJ		7,191.3	114.3	0.88	6,800.3	62.1	0.51
4FNGWA		7,207.0	129.9	1.01	6,848.8	110.6	0.91
556QAH		7,350.8	273.7	2.12	6,943.6	205.4	1.69
5HG UJ6		7,106.8	29.7	0.23	6,878.8	140.6	1.16
5LW1UA		7,086.6	9.5	0.07	6,784.9	46.7	0.38
5Q3BGA		6,784.9	-292.1	-2.26	6,433.9	-304.3	-2.51
5VXFGH		7,025.4	-51.7	-0.40	6,626.0	-112.3	-0.92
7L9NNL	X	6,413.0	-664.1	-5.14	6,564.0	-174.2	-1.43
7ZEMV1		7,167.8	90.7	0.70	6,876.8	138.6	1.14
865RQV		7,124.8	47.7	0.37	6,792.4	54.2	0.45
8PU89J		7,032.8	-44.3	-0.34	6,728.6	-9.6	-0.08
8SXGPN		7,162.6	85.5	0.66	6,747.4	9.2	0.08
9929YE		6,838.0	-239.1	-1.85	6,570.0	-168.2	-1.39
AUU8C5		6,902.4	-174.7	-1.35	6,495.0	-243.2	-2.00
B4HE6E		6,870.0	-207.1	-1.60	6,574.4	-163.8	-1.35
BSGQR7		7,022.8	-54.3	-0.42	6,657.3	-80.9	-0.67
BTTTJ5		7,201.6	124.5	0.96	6,777.4	39.2	0.32
C2B8FM		7,358.2	281.1	2.17	6,935.0	196.8	1.62
C5CB9U		7,166.6	89.5	0.69	6,805.8	67.6	0.56
C79MPV	X	7,586.4	509.3	3.94	7,247.6	509.4	4.19
C89237		7,273.7	196.6	1.52	6,885.6	147.3	1.21
C8B8L9		7,065.0	-12.1	-0.09	6,673.0	-65.2	-0.54

Plastics Interlaboratory Testing Program

Analysis 704

Tensile Stress at Yield - psi

WebCode	Data Flag	Sample F51			Sample F52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
CAPTT4	*	6,967.7	-109.4	-0.85	6,512.3	-226.0	-1.86
DESBU7		7,035.6	-41.5	-0.32	6,649.8	-88.4	-0.73
DLHKPB		7,112.8	35.7	0.28	6,750.8	12.6	0.10
E8GNLT		7,148.0	70.9	0.55	6,758.0	19.8	0.16
EDNPR8		6,998.2	-78.9	-0.61	6,621.8	-116.4	-0.96
EQC9PS		7,146.8	69.7	0.54	6,869.6	131.4	1.08
F1EB1R		7,020.6	-56.5	-0.44	6,678.2	-60.0	-0.49
GR32TM		6,964.0	-113.1	-0.87	6,674.0	-64.2	-0.53
J2MXNL	*	7,092.6	15.5	0.12	6,610.6	-127.6	-1.05
JJW9JM		7,294.6	217.5	1.68	6,923.4	185.2	1.52
KKWBEZ		7,006.0	-71.1	-0.55	6,634.0	-104.2	-0.86
L2NANU		7,191.0	113.9	0.88	6,924.0	185.8	1.53
LPNGBU		6,864.7	-212.4	-1.64	6,519.8	-218.4	-1.80
LR8ZFA		7,246.1	169.1	1.31	6,915.5	177.2	1.46
MFDU9E		7,066.0	-11.1	-0.09	6,746.9	8.7	0.07
N3KB7Y		7,040.0	-37.1	-0.29	6,741.4	3.2	0.03
N933BZ		7,126.4	49.3	0.38	6,766.2	28.0	0.23
NMBEM1		6,975.2	-101.9	-0.79	6,528.6	-209.6	-1.73
NNGCRW		7,153.0	75.9	0.59	6,804.0	65.8	0.54
NR2DQ4		6,865.8	-211.3	-1.63	6,520.6	-217.6	-1.79
NS4X6T		7,136.8	59.7	0.46	6,762.4	24.2	0.20
P9B775		7,021.8	-55.3	-0.43	6,712.0	-26.2	-0.22
PW41RN		7,214.4	137.3	1.06	6,802.4	64.2	0.53
PWGL8B		7,288.9	211.8	1.64	6,869.4	131.2	1.08
PYVB6Z		7,036.2	-40.9	-0.32	6,757.4	19.2	0.16
Q1QRDV		7,058.2	-18.9	-0.15	6,724.8	-13.4	-0.11
Q7LADH		7,014.0	-63.1	-0.49	6,790.0	51.8	0.43
QVNZJ8		6,939.5	-137.5	-1.06	6,693.3	-45.0	-0.37
RQL4QH		7,207.9	130.8	1.01	6,852.6	114.4	0.94
SJDEWA	X	6,395.2	-681.9	-5.27	6,038.2	-700.0	-5.77
SQCBF2		7,135.9	58.9	0.46	6,816.8	78.6	0.65
U1GJMK		6,973.5	-103.6	-0.80	6,674.7	-63.5	-0.52

**Plastics Interlaboratory Testing Program
Analysis 704**

Tensile Stress at Yield - psi

WebCode	Data Flag	Sample F51			Sample F52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
U9ALB8	X	6,276.4	-800.7	-6.19	5,877.8	-860.4	-7.09
UHF65Q		6,908.0	-169.1	-1.31	6,616.0	-122.2	-1.01
VDWGW6		7,153.3	76.3	0.59	6,802.3	64.1	0.53
VLYA6G		6,840.0	-237.1	-1.83	6,540.0	-198.2	-1.63
VSBDPD		7,034.0	-43.1	-0.33	6,738.8	0.6	0.00
WD521J		6,904.8	-172.3	-1.33	6,574.6	-163.6	-1.35
WP2474		7,062.4	-14.7	-0.11	6,761.6	23.4	0.19
WSA915		7,051.8	-25.3	-0.20	6,717.8	-20.4	-0.17
WW79DL		6,931.9	-145.2	-1.12	6,593.7	-144.6	-1.19
X2ZU3Y	X	6,794.8	-282.3	-2.18	6,766.9	28.7	0.24
X9QENZ		7,252.8	175.8	1.36	6,891.7	153.4	1.26
YLDafa		6,964.4	-112.7	-0.87	6,689.8	-48.4	-0.40
YMU3CL		7,173.6	96.6	0.75	6,857.4	119.2	0.98
Z6ZSEE		7,130.1	53.0	0.41	6,716.8	-21.5	-0.18
ZANKYZ		7,091.4	14.3	0.11	6,780.0	41.8	0.34
ZXMANJ		7,189.3	112.2	0.87	6,757.1	18.8	0.16

Summary Statistics

Grand Means

7,077.07 psi

6,738.23 psi

Std Dev Btwn Labs

129.28 psi

121.43 psi

Statistics based on 74 of 80 reporting participants

Sample F51: ABS & Sample F52: ABS

Comments on assigned Data Flags for Test #704

13Vfy7 (X) - Inconsistent in testing between samples.

7L9NNL (X) - Inconsistent in testing between samples, data for Sample F51 are low.

C79MPV (X) - High data for all samples. Possible Systematic Error.

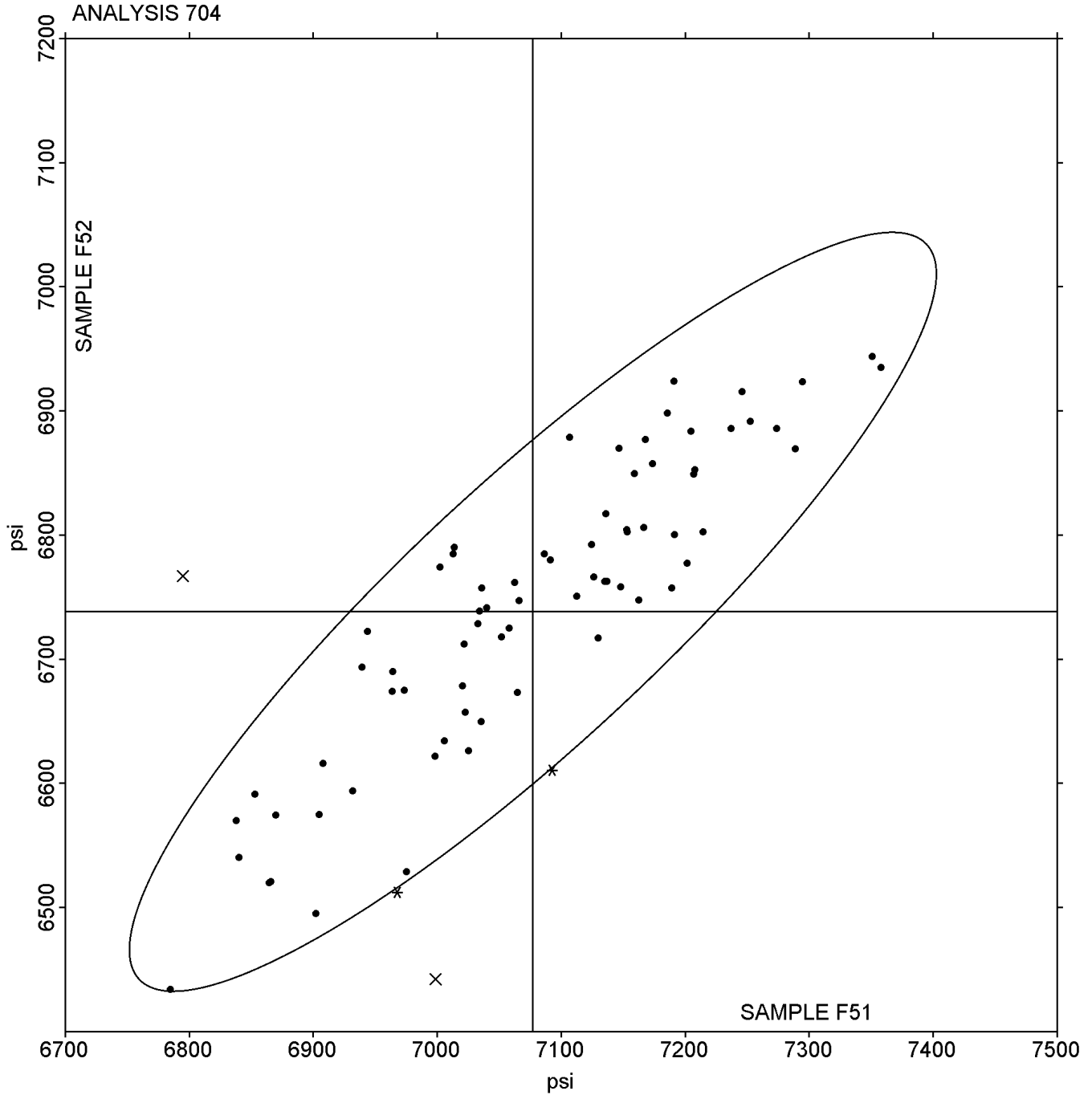
SJDEWA (X) - Low data for all samples.

U9ALB8 (X) - Low data for all samples.

X2ZU3Y (X) - Inconsistent in testing between samples.

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

Grand Mean Sample F51: 7,077.07 psi Grand Mean Sample F52: 6,738.23 psi



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

Plastics Interlaboratory Testing Program

Analysis 705

Tensile Stress at Break - psi

WebCode	Data Flag	Sample F51			Sample F52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2CPSHT		4,967.9	-129.7	-0.45	4,914.2	20.6	0.10
3DCSLB		4,824.0	-273.6	-0.96	4,858.8	-34.8	-0.16
3LNSJ4		5,136.6	39.0	0.14	4,797.0	-96.6	-0.46
4NWZT4		5,473.2	375.6	1.32	5,041.4	147.8	0.70
4WZLT4		5,651.2	553.6	1.94	4,908.2	14.6	0.07
598C1G		5,105.8	8.2	0.03	4,837.4	-56.2	-0.27
59XRX3		4,920.0	-177.6	-0.62	4,949.1	55.5	0.26
6JMPLZ		5,117.2	19.6	0.07	4,734.4	-159.2	-0.75
75231D		4,951.6	-145.9	-0.51	4,884.9	-8.7	-0.04
795DBT	*	4,575.4	-522.2	-1.83	4,299.0	-594.7	-2.81
7SV2C8		4,944.7	-152.9	-0.54	4,791.2	-102.4	-0.48
8S83KT		5,100.4	2.9	0.01	5,075.8	182.1	0.86
96CVCC		5,591.8	494.2	1.73	5,358.2	464.6	2.20
985CL6		5,740.0	642.4	2.25	5,100.0	206.4	0.98
9GY5TL		5,470.2	372.6	1.31	4,955.2	61.6	0.29
AZK58K		5,203.0	105.4	0.37	4,704.2	-189.4	-0.90
B1LBDE		5,097.4	-0.2	0.00	5,078.4	184.8	0.87
B3KWK1		5,241.9	144.3	0.51	5,098.4	204.8	0.97
C83G72		5,215.6	118.0	0.41	4,812.4	-81.3	-0.38
CBLYL4		4,802.4	-295.2	-1.03	4,629.6	-264.0	-1.25
CUNCZH	*	4,334.6	-763.0	-2.67	4,516.6	-377.0	-1.78
DLDN4B		4,755.6	-342.0	-1.20	4,733.8	-159.8	-0.76
DUFVYW		5,312.2	214.6	0.75	5,227.4	333.8	1.58
DZMAQM		4,786.3	-311.3	-1.09	4,748.6	-145.1	-0.69
EMX592		5,151.5	53.9	0.19	5,098.7	205.1	0.97
F5LP5X		5,610.6	513.0	1.80	5,080.2	186.5	0.88
FBSRHZ		4,934.4	-163.2	-0.57	4,596.2	-297.4	-1.41
H9R211	*	5,645.4	547.8	1.92	4,890.4	-3.3	-0.02
HHBKXY		5,202.2	104.6	0.37	4,968.8	75.2	0.36
HTNN3Z		5,040.8	-56.8	-0.20	4,684.4	-209.2	-0.99
JCDVVX		4,864.6	-233.0	-0.82	4,676.1	-217.6	-1.03
JFHBGA		4,563.2	-534.4	-1.87	4,412.8	-480.8	-2.28

Plastics Interlaboratory Testing Program

Analysis 705

Tensile Stress at Break - psi

WebCode	Data Flag	Sample F51			Sample F52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
JHPJG3		5,060.0	-37.6	-0.13	4,926.4	32.8	0.16
KLYKQP		4,975.7	-121.9	-0.43	4,898.5	4.9	0.02
KP18LF		5,381.0	283.4	0.99	5,204.6	311.0	1.47
KR51HZ		4,989.4	-108.2	-0.38	4,817.4	-76.2	-0.36
KU94G9		5,198.8	101.2	0.35	5,172.2	278.6	1.32
KXCTYX		4,795.0	-302.6	-1.06	4,409.2	-484.5	-2.29
L2R931		4,699.3	-398.3	-1.40	4,667.4	-226.3	-1.07
L4WJWC		5,671.3	573.7	2.01	5,022.4	128.8	0.61
LDHHP3		4,912.8	-184.8	-0.65	4,641.2	-252.4	-1.19
LMCQ1C		5,040.8	-56.8	-0.20	4,940.2	46.6	0.22
LV4L13		5,088.8	-8.8	-0.03	4,863.8	-29.8	-0.14
N1TR5W		5,031.7	-65.9	-0.23	4,895.4	1.7	0.01
N2BPQA		4,974.2	-123.4	-0.43	4,935.0	41.4	0.20
N73AY4		5,004.7	-92.9	-0.33	4,822.5	-71.1	-0.34
NAEV4Z		5,424.5	326.9	1.15	5,047.4	153.7	0.73
NC9EDT		5,146.8	49.2	0.17	5,210.2	316.6	1.50
NJ1QTW		5,020.7	-76.9	-0.27	5,009.3	115.7	0.55
NKE3NH		5,038.8	-58.8	-0.21	5,048.0	154.4	0.73
PJZNM9		5,575.3	477.7	1.67	5,076.1	182.4	0.86
RFBS69		4,828.0	-269.6	-0.94	4,766.4	-127.2	-0.60
RRZXUS		4,987.8	-109.7	-0.38	4,721.7	-171.9	-0.81
STHCRP		5,238.8	141.2	0.49	4,850.1	-43.5	-0.21
SVQAWY		5,177.8	80.2	0.28	4,982.4	88.8	0.42
TB391X	X	7,176.5	2,079.0	7.28	6,924.4	2,030.8	9.61
TBCYPT		5,077.8	-19.8	-0.07	5,271.4	377.8	1.79
TG55HR		4,848.0	-249.6	-0.87	4,704.0	-189.6	-0.90
TR8END		4,854.0	-243.6	-0.85	4,925.8	32.2	0.15
VR3RLB		5,101.8	4.2	0.01	4,926.8	33.2	0.16
WJUQF6		4,969.6	-128.0	-0.45	4,805.8	-87.8	-0.42
WQUUUP		4,984.2	-113.4	-0.40	4,738.2	-155.4	-0.74
X2L2LQ		5,656.8	559.2	1.96	4,928.6	35.0	0.17
XCVTS2		5,047.0	-50.6	-0.18	4,904.6	11.0	0.05

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

WebCode	Data Flag	Sample F51			Sample F52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
XX377B		5,109.8	12.2	0.04	5,081.8	188.2	0.89
YUDPQN		5,123.4	25.8	0.09	5,094.2	200.6	0.95
ZP9KS7		5,073.6	-24.0	-0.08	5,209.8	316.2	1.50

Summary Statistics

Grand Means

5,097.57 psi

4,893.64 psi

Std Dev Btwn Labs

285.48 psi

211.32 psi

Statistics based on 66 of 67 reporting participants

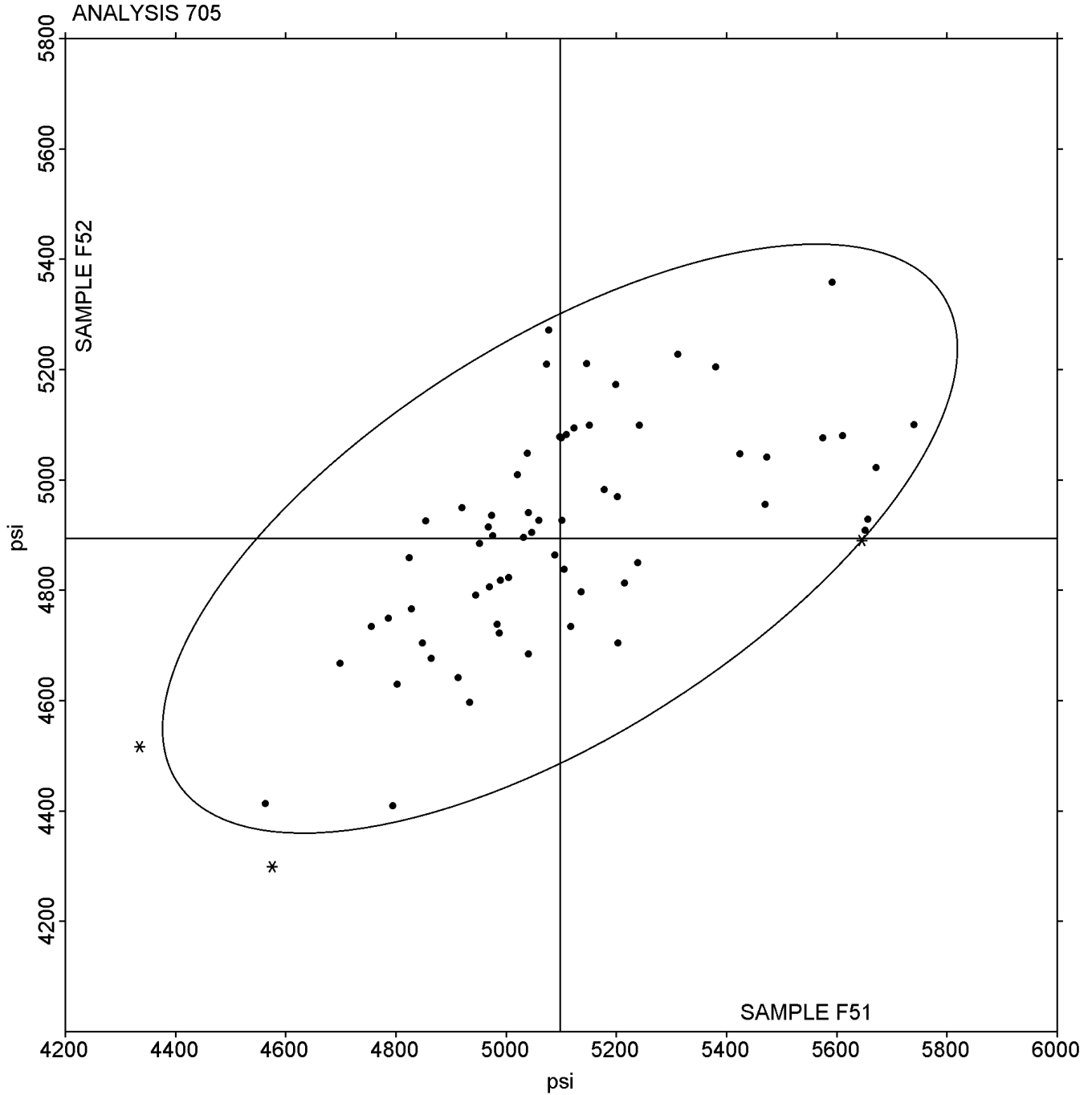
Sample F51: ABS & Sample F52: ABS

Comments on assigned Data Flags for Test #705

TB391X (X) - High data for all samples.

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

Grand Mean Sample F51: 5,097.57 psi Grand Mean Sample F52: 4,893.64 psi



Plastics Interlaboratory Testing Program
Analysis 706

Percent Elongation at Yield - Percent

WebCode	Data Flag	Sample F51			Sample F52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2TDJ1M		2.724	0.012	0.10	2.372	0.005	0.04
2U5R3G		2.768	0.056	0.45	2.498	0.131	0.96
3JREPE	X	3.492	0.780	6.27	2.974	0.607	4.45
3QEDHE	X	7.580	4.868	39.12	6.660	4.293	31.49
43B5AH		2.578	-0.134	-1.08	2.108	-0.259	-1.90
4C79Z4		2.609	-0.103	-0.83	2.283	-0.084	-0.62
4M9EE2	*	2.558	-0.154	-1.24	2.418	0.051	0.38
4Q3Y46	*	2.792	0.080	0.64	2.616	0.249	1.83
4S33R5		2.668	-0.044	-0.35	2.170	-0.197	-1.44
7CH4FA		2.902	0.190	1.53	2.528	0.161	1.18
7CUNQF		2.734	0.022	0.18	2.378	0.011	0.08
7VBYQF	X	2.186	-0.526	-4.23	2.156	-0.211	-1.55
7WN8F3		2.708	-0.004	-0.03	2.386	0.019	0.14
8LK4RT		2.638	-0.074	-0.60	2.166	-0.201	-1.47
8ZYLNN		2.860	0.148	1.19	2.460	0.093	0.68
92JWZ3		2.758	0.046	0.37	2.416	0.049	0.36
A4QPR6		2.756	0.044	0.35	2.408	0.041	0.30
A82J9Y		2.733	0.021	0.17	2.410	0.044	0.32
AA2LNT		2.544	-0.168	-1.35	2.216	-0.151	-1.11
B2Z72Y		2.662	-0.050	-0.40	2.326	-0.041	-0.30
B3YS8N		2.766	0.054	0.43	2.364	-0.003	-0.02
BGEY46		2.872	0.160	1.29	2.480	0.113	0.83
BXFBVD		2.856	0.144	1.16	2.504	0.137	1.01
C9M6YN		2.770	0.058	0.47	2.434	0.067	0.49
CDQUTN		2.986	0.274	2.20	2.596	0.229	1.68
CGEKJV	X	2.440	-0.272	-2.19	2.324	-0.043	-0.31
CPLQGR	X	3.198	0.486	3.91	2.727	0.361	2.65
CQ6JY4		2.734	0.022	0.18	2.396	0.029	0.21
CR7B7R		2.546	-0.166	-1.33	2.246	-0.121	-0.89
DVGH2U		2.676	-0.036	-0.29	2.350	-0.017	-0.12
DZ9K4X	*	3.052	0.340	2.73	2.758	0.391	2.87
EHBZET		2.834	0.122	0.98	2.480	0.113	0.83

Plastics Interlaboratory Testing Program
Analysis 706

Percent Elongation at Yield - Percent

WebCode	Data Flag	Sample F51			Sample F52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
F8X2QF		2.594	-0.118	-0.95	2.326	-0.041	-0.30
FV5GZD		2.719	0.007	0.06	2.387	0.020	0.15
G6J16F	X	6.440	3.728	29.96	7.492	5.125	37.60
GMDCY5	X	7.650	4.938	39.68	7.060	4.693	34.43
HUY55X		2.596	-0.116	-0.93	2.254	-0.113	-0.83
HVSTHH	X	3.914	1.202	9.66	3.544	1.177	8.64
JYAYRX	X	6.676	3.964	31.86	5.466	3.099	22.73
LB3GU2		2.742	0.030	0.24	2.400	0.033	0.24
LK6BM8		2.766	0.054	0.43	2.322	-0.045	-0.33
LVKWZV		2.550	-0.162	-1.30	2.286	-0.081	-0.59
LWXBBW		2.726	0.014	0.11	2.356	-0.011	-0.08
LZCWXS		2.730	0.018	0.14	2.462	0.095	0.70
M58N1Y		2.726	0.014	0.11	2.368	0.001	0.01
MJ65RS		2.808	0.096	0.77	2.432	0.065	0.48
N2D657	X	5.820	3.108	24.98	5.114	2.747	20.15
P2RTWV		2.428	-0.284	-2.28	2.062	-0.305	-2.24
PH59NA		2.736	0.024	0.19	2.402	0.035	0.26
PMYYLQ		2.686	-0.026	-0.21	2.414	0.047	0.35
RABN2P	X	2.020	-0.692	-5.56	1.920	-0.447	-3.28
RAJQ29		2.776	0.064	0.51	2.478	0.111	0.82
RWEB44	X	2.080	-0.632	-5.08	2.120	-0.247	-1.81
SANR3T		2.508	-0.204	-1.64	2.152	-0.215	-1.57
SNLJ2E	X	3.604	0.892	7.17	3.096	0.729	5.35
UB93ZN		2.734	0.022	0.18	2.382	0.015	0.11
ULTT4M		2.686	-0.026	-0.21	2.230	-0.137	-1.00
URSS7N		2.498	-0.214	-1.72	2.256	-0.111	-0.81
W5E1EM		2.652	-0.060	-0.48	2.330	-0.037	-0.27
WKMPCP		2.550	-0.162	-1.30	2.066	-0.301	-2.21
YWVYFM		2.742	0.030	0.24	2.410	0.043	0.32
ZQBLBF		2.854	0.142	1.14	2.426	0.059	0.44

Percent Elongation at Yield - Percent

Summary Statistics

Grand Means

2.7121 Percent

2.3667 Percent

Std Dev Btwn Labs

0.1244 Percent

0.1363 Percent

Statistics based on 49 of 62 reporting participants

Sample F51: ABS & Sample F52: ABS

Comments on assigned Data Flags for Test #706

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

3QEDHE (X) - Extreme data.

7VBYQF (X) - Inconsistent in testing between samples, data for Sample F51 are low.

CGEKJV (X) - Inconsistent in testing between samples.

CPLQGR (X) - Inconsistent in testing between samples, data for Sample F51 are high.

G6J16F (X) - Extreme data.

GMDCY5 (X) - Extreme data.

HVSTHH (X) - High data for all samples.

JYAYRX (X) - Extreme data.

N2D657 (X) - Extreme data.

RABN2P (X) - Low data for all samples.

RWEB44 (X) - Inconsistent in testing between samples, data for Sample F51 are low.

SNLJ2E (X) - High data for all samples.

Plastics Interlaboratory Testing Program
Analysis 708
Modulus of Elasticity - ksi

WebCode	Data Flag	Sample F51			Sample F52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1JQWGU	*	288.64	-60.05	-2.76	309.66	-50.37	-2.35
1NSEL7	X	158.84	-189.85	-8.72	162.60	-197.43	-9.21
44UTWJ		329.30	-19.39	-0.89	368.58	8.55	0.40
4MSQAC		334.92	-13.77	-0.63	361.88	1.85	0.09
4RPFKF		350.60	1.91	0.09	362.58	2.55	0.12
4VN2SA		344.12	-4.57	-0.21	355.29	-4.74	-0.22
5NM13E		360.37	11.68	0.54	351.01	-9.02	-0.42
5XEE8L		357.44	8.75	0.40	362.12	2.09	0.10
5XHBYBF		363.20	14.51	0.67	381.42	21.39	1.00
6VZY83		390.02	41.33	1.90	383.42	23.39	1.09
8GWAEE		345.80	-2.89	-0.13	353.20	-6.83	-0.32
8K3S3J		341.47	-7.22	-0.33	334.86	-25.17	-1.17
9H8NUC		398.20	49.51	2.27	388.00	27.97	1.30
A2LDQ5		349.02	0.33	0.02	367.30	7.27	0.34
AKP2D4		346.20	-2.49	-0.11	332.00	-28.03	-1.31
AR4APN		339.28	-9.41	-0.43	354.16	-5.87	-0.27
C1AYCW		358.86	10.17	0.47	376.96	16.93	0.79
CQ9CKE		353.95	5.26	0.24	342.13	-17.90	-0.83
CUX4B1		349.34	0.65	0.03	363.00	2.97	0.14
DTS3RH		331.00	-17.69	-0.81	345.20	-14.83	-0.69
DZ5NCT		363.66	14.97	0.69	369.60	9.57	0.45
EBQLFA		349.46	0.77	0.04	360.48	0.45	0.02
EYCJKU	*	341.42	-7.27	-0.33	392.58	32.55	1.52
F16UQZ		356.26	7.58	0.35	359.78	-0.25	-0.01
FJRNAR	*	284.26	-64.43	-2.96	303.28	-56.75	-2.65
GK8SA5	X	101.26	-247.43	-11.37	102.26	-257.77	-12.03
GU2CVK		345.52	-3.17	-0.15	353.04	-6.99	-0.33
HXRFED	*	393.65	44.96	2.07	420.27	60.24	2.81
KAD7U1		381.46	32.77	1.51	391.32	31.29	1.46
KHYSTQ		353.61	4.92	0.23	369.82	9.79	0.46
KLTQWD		331.54	-17.15	-0.79	343.84	-16.19	-0.76
KSAQAX		346.20	-2.49	-0.11	371.20	11.17	0.52

Plastics Interlaboratory Testing Program
Analysis 708
Modulus of Elasticity - ksi

WebCode	Data Flag	Sample F51			Sample F52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
L1DFW5		333.26	-15.43	-0.71	346.50	-13.52	-0.63
L7ZBX8		342.44	-6.25	-0.29	358.02	-2.01	-0.09
LULS5N		395.40	46.71	2.15	396.22	36.19	1.69
MIHKLM		354.00	5.31	0.24	367.20	7.17	0.33
MK1SAV		347.63	-1.06	-0.05	365.06	5.03	0.23
N6D1V1	X	337,091.00	336,742.31	15,469.26	347,327.60	346,967.57	16,187.39
NYMUPZ		344.38	-4.31	-0.20	358.22	-1.81	-0.08
P37DZV		334.73	-13.96	-0.64	348.53	-11.50	-0.54
Q1YLD9		335.85	-12.84	-0.59	347.98	-12.05	-0.56
QK147S		361.44	12.75	0.59	342.98	-17.05	-0.80
RCV6VJ		350.12	1.43	0.07	363.48	3.45	0.16
TEWBMH		331.30	-17.39	-0.80	326.54	-33.49	-1.56
TRAHJP		353.88	5.19	0.24	371.14	11.11	0.52
V95ULP		331.93	-16.76	-0.77	340.18	-19.85	-0.93
VQQ5SM		341.44	-7.25	-0.33	355.90	-4.13	-0.19
XAKNRY	X	457.11	108.42	4.98	379.89	19.86	0.93
YL3JTD		338.94	-9.75	-0.45	364.85	4.82	0.23
ZDWH2B		364.18	15.49	0.71	380.58	20.55	0.96

Summary Statistics

Grand Means

348.689 ksi

360.029 ksi

Std Dev Btwn Labs

21.768 ksi

21.434 ksi

Statistics based on 46 of 50 reporting participants

Sample F51: ABS & Sample F52: ABS

Comments on assigned Data Flags for Test #708

1NSEL7 (X) - Low data for all samples.

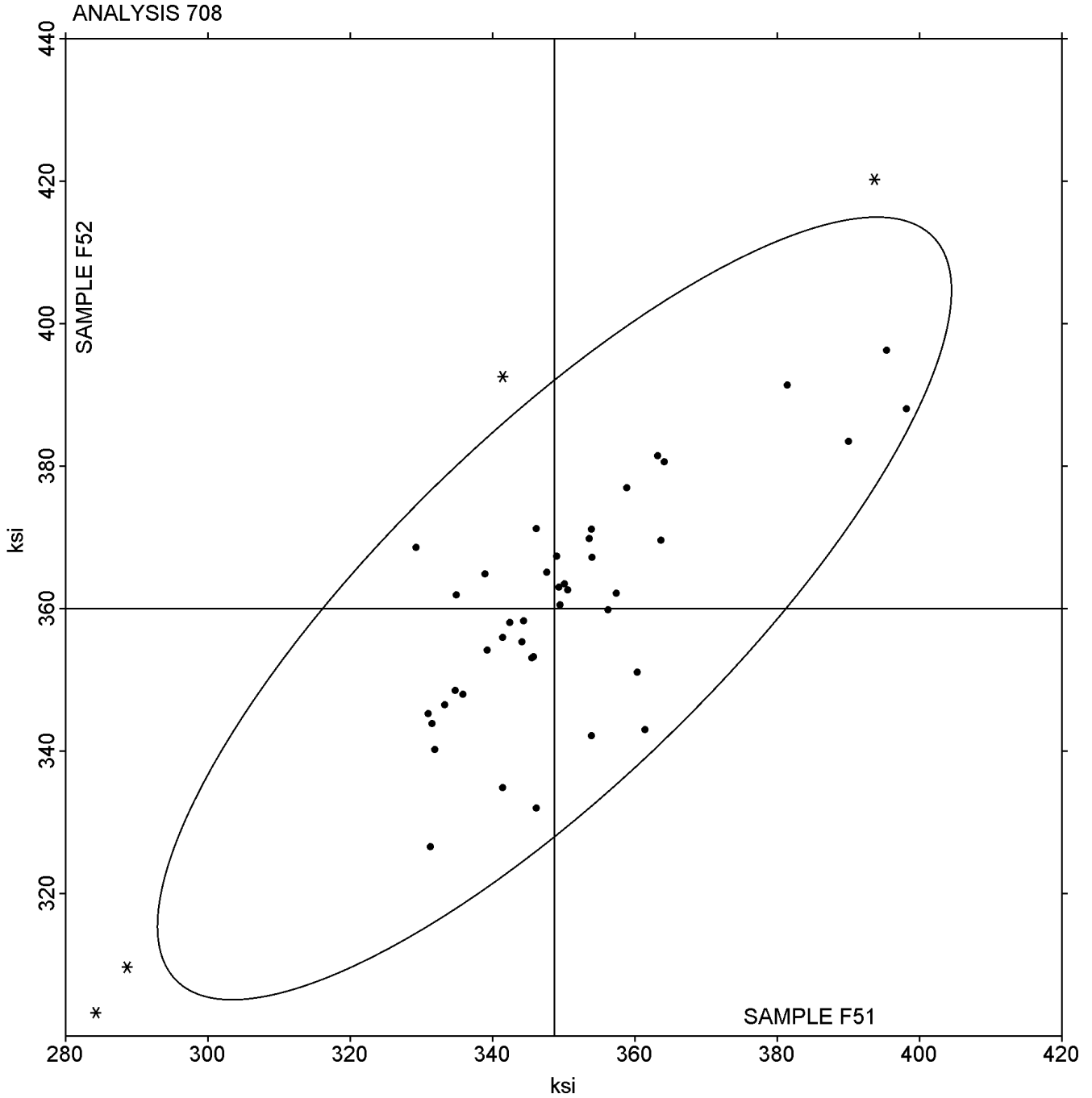
GK8SA5 (X) - Low data for all samples.

N6D1V1 (X) - Extreme data. Default unit (ksi) used, but data appear to be in psi.

XAKNRY (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F51.

Plastics Interlaboratory Testing Program
Analysis 708
Modulus of Elasticity - ksi

Grand Mean Sample F51: 348.69 ksi Grand Mean Sample F52: 360.03 ksi



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

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

WebCode	Data Flag	Sample C51			Sample C52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
19TAQE		47.51	-0.38	-0.37	44.91	-0.16	-0.17
1KHVDE		47.88	-0.01	-0.01	44.63	-0.44	-0.46
1RC1SQ		48.45	0.56	0.55	45.52	0.45	0.46
2HCYUN		47.44	-0.45	-0.44	44.22	-0.85	-0.88
3ST8M1		48.77	0.88	0.86	45.62	0.55	0.57
3VKMM4		47.09	-0.80	-0.79	45.03	-0.04	-0.04
4PUPAK		46.47	-1.42	-1.40	44.10	-0.97	-1.00
5HR27V	*	45.12	-2.77	-2.72	42.02	-3.05	-3.14
5UYF6F		48.21	0.32	0.31	45.25	0.18	0.18
658SRK		47.69	-0.20	-0.20	44.85	-0.22	-0.23
76HT93		48.40	0.51	0.50	45.96	0.89	0.91
7MF687		49.03	1.14	1.12	45.89	0.82	0.84
7Z3VUW		48.12	0.23	0.22	45.10	0.03	0.03
8MKBLE		48.36	0.47	0.46	45.77	0.70	0.72
8U3KY5		49.13	1.24	1.21	46.24	1.17	1.21
APXFYB		48.50	0.61	0.60	45.65	0.58	0.60
B51VF9		47.21	-0.68	-0.67	44.94	-0.13	-0.14
B877H3		47.27	-0.62	-0.61	44.58	-0.49	-0.51
BHQ742		49.97	2.08	2.04	47.28	2.21	2.27
CGFF2U		49.67	1.78	1.75	47.16	2.09	2.15
D5YVR7		48.01	0.12	0.11	44.80	-0.27	-0.28
E9P1WK		48.04	0.15	0.15	45.20	0.13	0.14
EAT5BB		46.81	-1.08	-1.06	44.16	-0.91	-0.93
ECWHKS		48.36	0.47	0.46	45.38	0.31	0.32
G6P515		49.30	1.41	1.39	46.36	1.29	1.32
GTL92D		47.88	-0.01	-0.01	45.14	0.07	0.07
J5WSWK		46.45	-1.44	-1.42	43.27	-1.80	-1.85
JELGXS		47.67	-0.22	-0.22	44.58	-0.49	-0.50
JX6JXA		50.00	2.11	2.07	46.69	1.62	1.67
LEG2QL		48.21	0.32	0.32	45.13	0.06	0.06
LLXVJG		47.24	-0.65	-0.64	44.53	-0.54	-0.56
LNQR8E		47.23	-0.66	-0.65	44.42	-0.65	-0.67

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

WebCode	Data Flag	Sample C51			Sample C52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
MMKXH9		47.33	-0.56	-0.55	44.89	-0.18	-0.19
PF767B		47.26	-0.63	-0.62	44.99	-0.08	-0.09
Q2GEPH		47.49	-0.40	-0.39	44.72	-0.35	-0.36
QREGXK		47.51	-0.38	-0.37	44.66	-0.41	-0.42
QTYNUC		47.95	0.06	0.06	44.37	-0.70	-0.72
RYE8US		48.78	0.89	0.87	45.88	0.81	0.83
TVYRGD	X	24.68	-23.21	-22.80	23.69	-21.38	-21.99
VBE97V		48.51	0.62	0.61	45.42	0.35	0.36
VBMPT2		47.03	-0.86	-0.85	44.32	-0.75	-0.78
VRMFW7		45.87	-2.02	-1.99	43.51	-1.56	-1.60
X2ZLD6		47.17	-0.72	-0.70	45.03	-0.04	-0.04
Z9PG7B		48.91	1.02	1.00	45.86	0.79	0.82

Summary Statistics

Grand Means

47.890 MPa

45.070 MPa

Std Dev Btwn Labs

1.018 MPa

0.972 MPa

Statistics based on 43 of 44 reporting participants

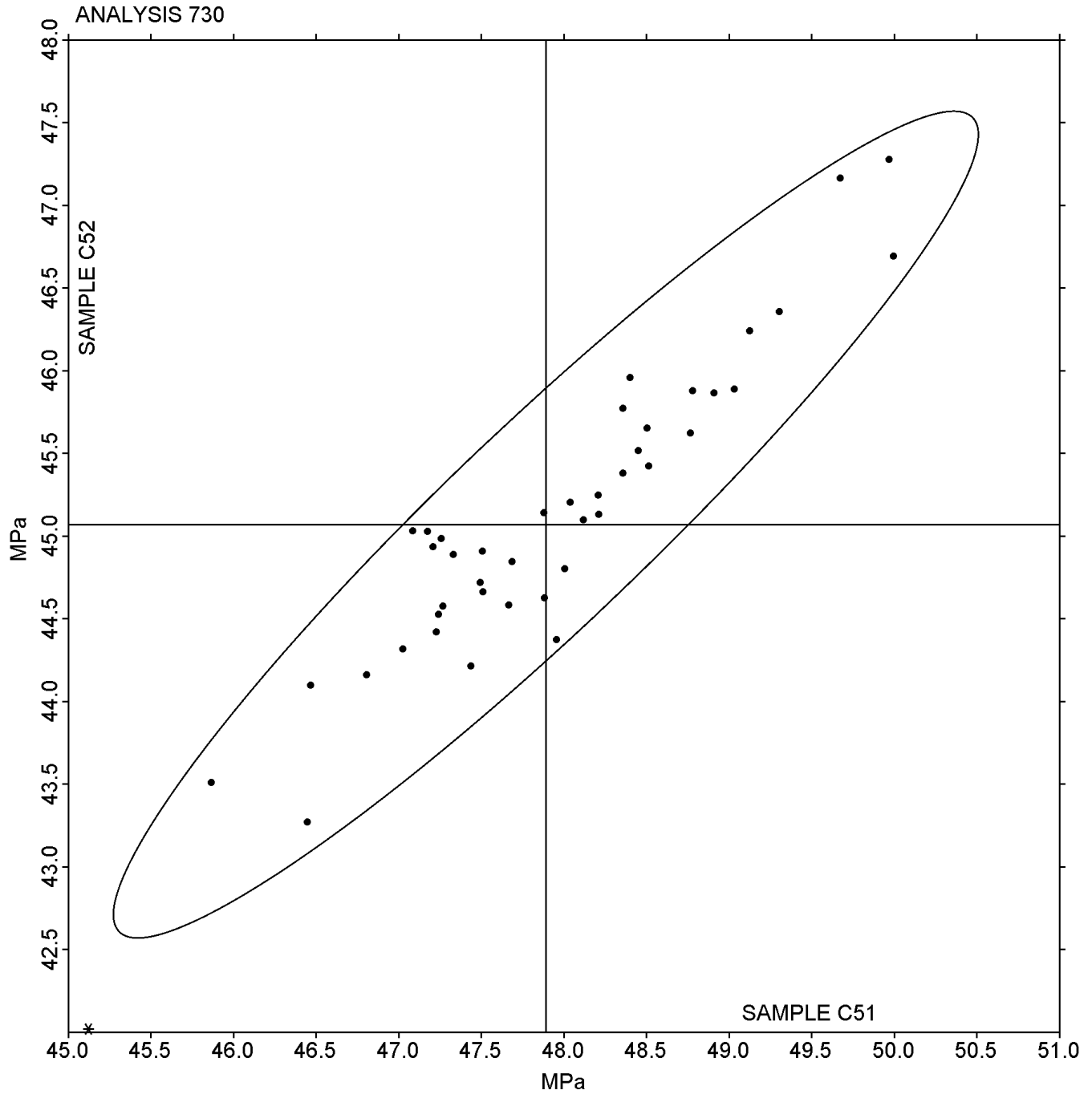
Sample C51: ABS & Sample C52: ABS

Comments on assigned Data Flags for Test #730

TVYRGD (X) - Low data for all samples. Data appear to be off by a factor of 2.

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

Grand Mean Sample C51: 47.890 MPa Grand Mean Sample C52: 45.070 MPa



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

Analysis 731

Tensile Stress at Break - MPa

WebCode	Data Flag	Sample C51			Sample C52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1FU5NP	X	16.96	-17.84	-9.56	16.93	-16.86	-14.29
2U7S64		33.99	-0.80	-0.43	33.27	-0.51	-0.44
3W84PC		37.39	2.59	1.39	33.61	-0.17	-0.15
5DAMT8		35.43	0.64	0.34	34.47	0.69	0.58
5RBXWK		35.06	0.26	0.14	33.64	-0.14	-0.12
6S2H2F		34.25	-0.55	-0.30	34.77	0.98	0.83
8QDMU8	*	30.73	-4.07	-2.18	30.48	-3.30	-2.80
913S9G		34.71	-0.09	-0.05	33.01	-0.77	-0.66
AGUF6E		31.85	-2.94	-1.58	32.50	-1.29	-1.09
AKQ6BU		32.78	-2.02	-1.08	34.61	0.83	0.70
AN2DX6		36.39	1.60	0.85	34.75	0.96	0.81
BJYD2S		36.10	1.30	0.70	34.69	0.91	0.77
CCXWQ3		34.71	-0.09	-0.05	34.68	0.89	0.76
CMKE23		38.02	3.23	1.73	34.86	1.08	0.91
CZ3PEX		34.36	-0.44	-0.24	33.56	-0.23	-0.19
F5RQPR		37.15	2.35	1.26	33.83	0.04	0.04
F5WNUX		34.12	-0.68	-0.37	33.55	-0.24	-0.20
H1XAHU		39.13	4.33	2.32	36.69	2.91	2.46
H5A1TM		35.06	0.26	0.14	33.87	0.09	0.07
LPAC6Q		33.94	-0.86	-0.46	34.44	0.66	0.56
QMP9B4	X	34.59	-0.21	-0.11	46.69	12.91	10.94
QRAHLM		33.97	-0.83	-0.44	33.93	0.15	0.12
REJDWZ		34.73	-0.07	-0.04	33.21	-0.58	-0.49
RSTFHS		38.06	3.26	1.75	35.16	1.38	1.17
RXLHLN		36.90	2.10	1.13	35.69	1.91	1.62
S4S3WA		33.64	-1.16	-0.62	33.35	-0.43	-0.37
T9K14J		36.22	1.42	0.76	32.93	-0.85	-0.72
UBN9SS		33.73	-1.07	-0.57	32.22	-1.57	-1.33
UKTTPS		32.66	-2.13	-1.14	32.45	-1.34	-1.13
US3VN8		33.50	-1.30	-0.70	33.13	-0.66	-0.56
UZXJA6		34.39	-0.41	-0.22	33.48	-0.30	-0.25
V81H8F		33.49	-1.31	-0.70	32.20	-1.59	-1.35

Plastics Interlaboratory Testing Program
Analysis 731

Tensile Stress at Break - MPa

WebCode	Data Flag	Sample C51			Sample C52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
WU64BF		32.96	-1.84	-0.98	32.10	-1.68	-1.43
XALGLC		33.06	-1.74	-0.93	33.74	-0.04	-0.04
XS236B		35.10	0.31	0.16	35.00	1.21	1.03
XSAM9Y		33.43	-1.36	-0.73	33.07	-0.71	-0.60
YDM7SF		34.29	-0.51	-0.27	34.69	0.91	0.77
YTBLN8		37.47	2.68	1.43	34.61	0.83	0.70

Summary Statistics

Grand Means

34.799 MPa

33.785 MPa

Std Dev Btwn Labs

1.867 MPa

1.180 MPa

Statistics based on 36 of 38 reporting participants

Sample C51: ABS & Sample C52: ABS

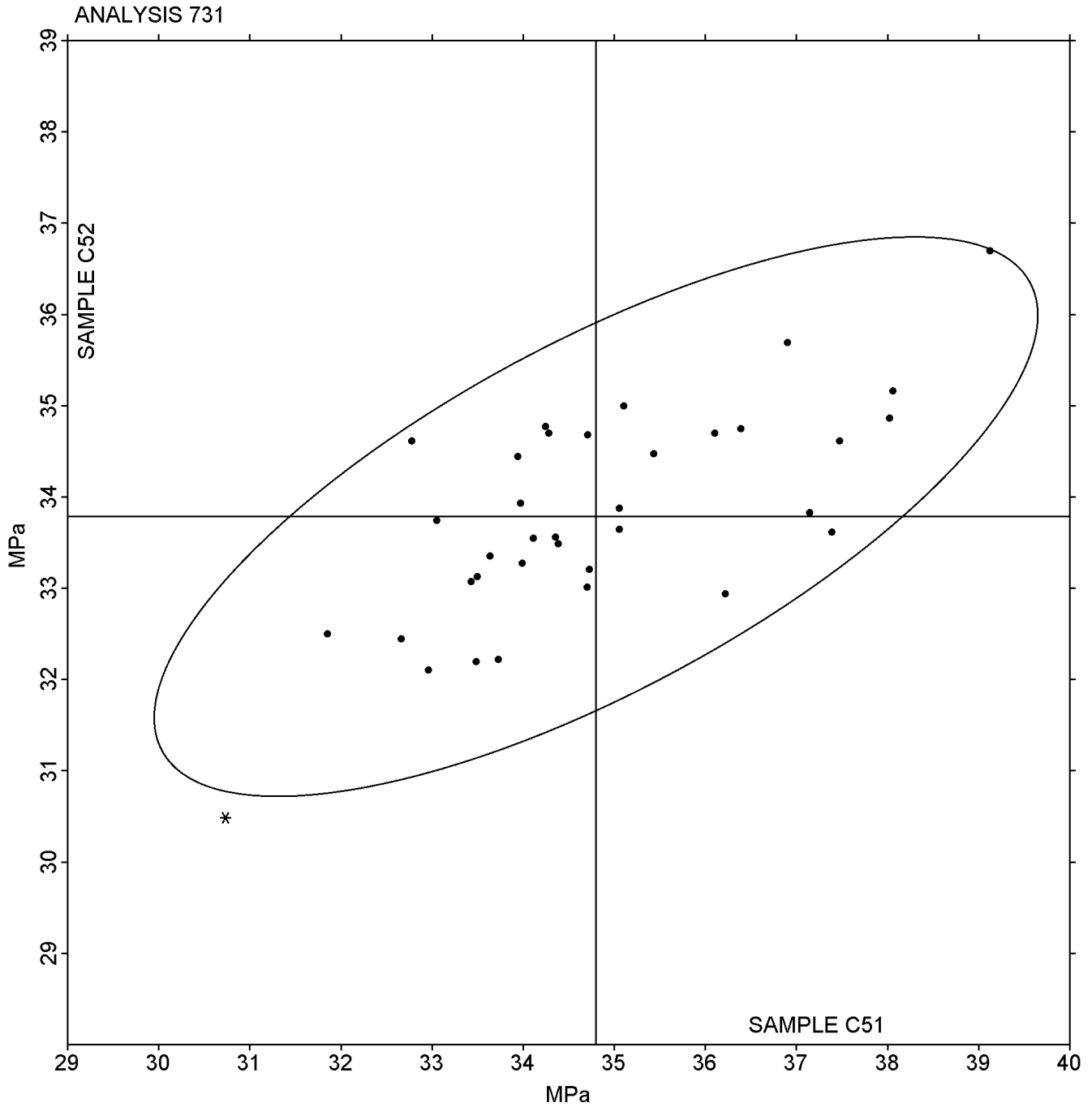
Comments on assigned Data Flags for Test #731

1FU5NP (X) - Low data for all samples. Data appear to be off by a factor of 2.

QMP9B4 (X) - High data for Sample C52.

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

Grand Mean Sample C51: 34.799 MPa Grand Mean Sample C52: 33.785 MPa



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

Plastics Interlaboratory Testing Program

Analysis 732

Percent Strain at Yield

WebCode	Data Flag	Sample C51			Sample C52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2S424C		2.538	-0.043	-0.38	2.256	-0.001	-0.01
2W6VG3		2.602	0.021	0.18	2.346	0.089	1.00
32946P		2.592	0.011	0.09	2.284	0.027	0.31
39F541		2.554	-0.027	-0.24	2.192	-0.065	-0.72
3HCDM9		2.666	0.085	0.75	2.336	0.079	0.88
3WL1GA		2.658	0.077	0.68	2.324	0.067	0.75
5LBBK2		2.556	-0.025	-0.22	2.300	0.043	0.48
5UCW64		2.430	-0.151	-1.34	2.170	-0.087	-0.97
69NVQR		2.492	-0.089	-0.79	2.214	-0.043	-0.47
72P388		2.614	0.033	0.29	2.302	0.045	0.51
747KP8		2.552	-0.029	-0.26	2.204	-0.053	-0.59
96TT84		2.658	0.077	0.68	2.350	0.093	1.04
AQF5QE		2.668	0.087	0.77	2.264	0.007	0.08
BAJUHT		2.726	0.145	1.29	2.394	0.137	1.53
DP2CXP		2.498	-0.083	-0.74	2.198	-0.059	-0.65
EA9FYJ		2.647	0.065	0.58	2.318	0.062	0.69
EKK7EY		2.482	-0.099	-0.88	2.194	-0.063	-0.70
FE2U1U		2.584	0.003	0.02	2.180	-0.077	-0.85
FJGJ94	*	2.280	-0.301	-2.68	2.000	-0.257	-2.86
G7E6GN		2.554	-0.027	-0.24	2.272	0.015	0.17
GPSTFA		2.636	0.055	0.49	2.318	0.061	0.68
HHW1CC	*	2.842	0.261	2.32	2.366	0.109	1.22
L4XNHV		2.596	0.015	0.13	2.240	-0.017	-0.18
MDBY1B		2.616	0.035	0.31	2.262	0.005	0.06
N6ANNT		2.864	0.283	2.51	2.440	0.183	2.04
NB6PJT		2.542	-0.039	-0.35	2.298	0.041	0.46
NY1ZP4		2.514	-0.067	-0.60	2.218	-0.039	-0.43
NYUGGM		2.568	-0.013	-0.12	2.236	-0.021	-0.23
QHPVSM		2.436	-0.145	-1.29	2.100	-0.157	-1.75
ST58F9		2.580	-0.001	-0.01	2.246	-0.011	-0.12
T335HL		2.382	-0.199	-1.77	2.060	-0.197	-2.19
TXBFZJ	X	3.157	0.575	5.11	2.790	0.533	5.94

Plastics Interlaboratory Testing Program
Analysis 732
Percent Strain at Yield

WebCode	Data Flag	Sample C51			Sample C52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
UYLK6B		2.527	-0.054	-0.48	2.225	-0.032	-0.36
VMNMQX		2.680	0.099	0.88	2.316	0.059	0.66
ZAKZB3		2.628	0.047	0.41	2.302	0.045	0.51
ZTB7YH		2.584	0.003	0.02	2.256	-0.001	-0.01

Summary Statistics

Grand Means

2.5813 Percent

2.2566 Percent

Std Dev Btwn Labs

0.1126 Percent

0.0897 Percent

Statistics based on 35 of 36 reporting participants

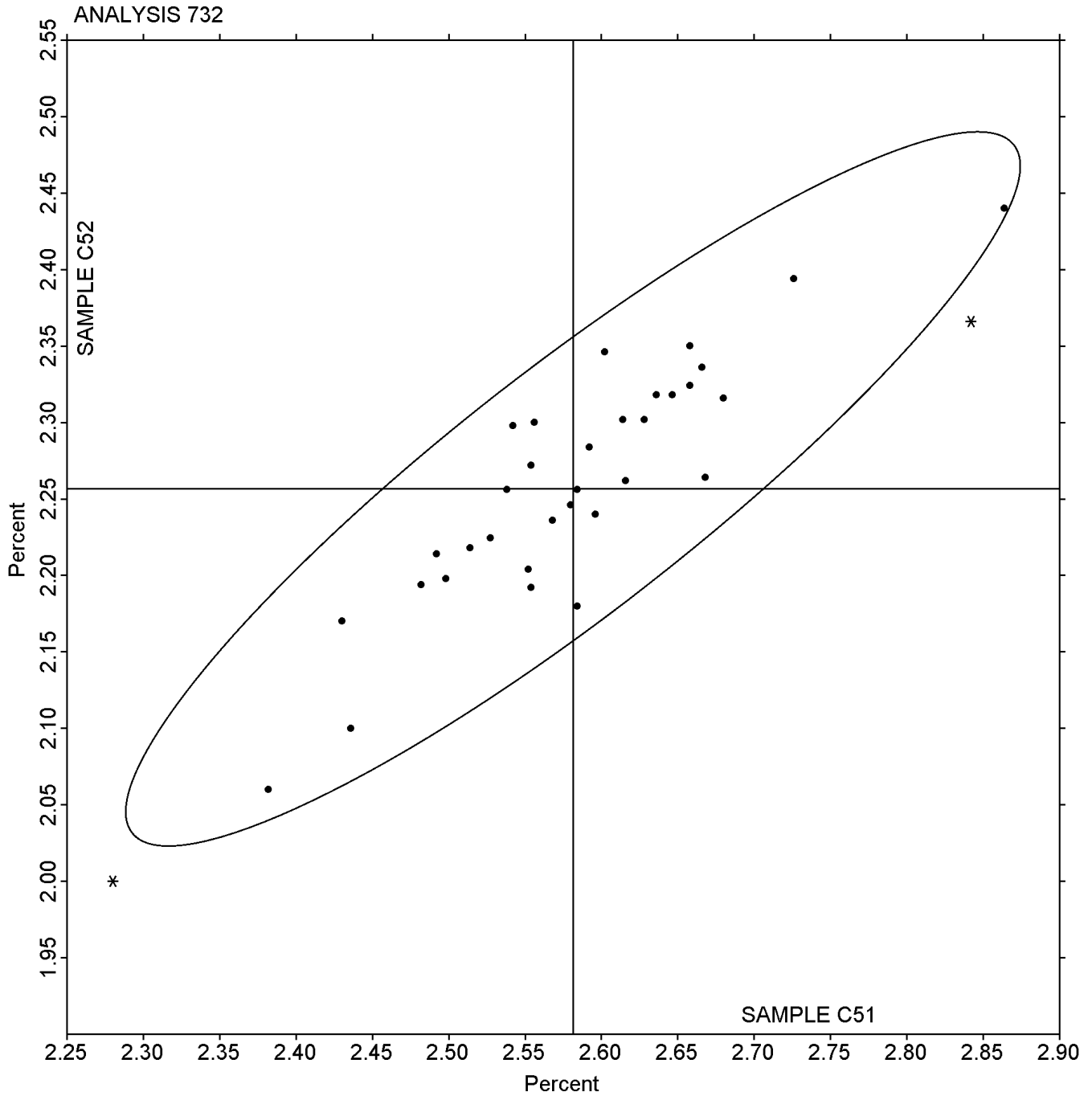
Sample C51: ABS & Sample C52: ABS

Comments on assigned Data Flags for Test #732

TXBFZJ (X) - High data for all samples.

Plastics Interlaboratory Testing Program
Analysis 732
Percent Strain at Yield

Grand Mean Sample C51: 2.5813 Percent Grand Mean Sample C52: 2.2566 Percent



Plastics Interlaboratory Testing Program
Analysis 734
Modulus of Elasticity - MPa

WebCode	Data Flag	Sample C51			Sample C52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
29B34L		2,587	246	1.64	2,667	234	1.48
2HN3W5		2,436	95	0.63	2,511	78	0.49
2V9W9D		2,344	3	0.02	2,410	-24	-0.15
5A6UL1	X	3,017	676	4.51	2,977	544	3.43
8513FQ		2,431	90	0.60	2,464	30	0.19
87NMBC		1,974	-367	-2.45	2,028	-405	-2.56
9KX25X		2,360	19	0.13	2,482	49	0.31
9M4SL6		2,487	146	0.97	2,584	151	0.95
A9BRCR		2,351	10	0.07	2,475	41	0.26
BFBCWE		2,322	-19	-0.12	2,394	-39	-0.25
DCWF1E		2,274	-67	-0.45	2,406	-27	-0.17
ERWKU2		2,418	77	0.51	2,447	14	0.09
GJ2DTM	*	2,126	-215	-1.43	2,078	-355	-2.24
H3SVRG		2,362	21	0.14	2,467	34	0.21
HUEV5T		2,432	91	0.61	2,515	82	0.52
JQGCCV		2,350	10	0.06	2,522	89	0.56
KAXHN4		2,169	-171	-1.14	2,278	-155	-0.98
KW5LSY	*	1,946	-395	-2.63	2,101	-333	-2.10
LNEQSL	X	2,801	461	3.07	3,126	692	4.37
LXAXYL		2,453	112	0.75	2,551	118	0.74
N7YANX		2,409	69	0.46	2,511	77	0.49
NQB7NB		2,351	10	0.07	2,461	28	0.18
PBMG66	X	1,234	-1,106	-7.37	1,302	-1,131	-7.14
PHAMEQ		2,192	-149	-0.99	2,288	-145	-0.92
QHQA2Q		2,582	241	1.61	2,725	292	1.84
RDZ8UT		2,363	22	0.15	2,381	-52	-0.33
S87VWM		2,347	6	0.04	2,442	9	0.05
T1QKAJ		2,431	91	0.60	2,541	108	0.68
TNPA6G		2,178	-163	-1.08	2,329	-105	-0.66
UB6Q3D		2,408	67	0.45	2,456	23	0.14
VLPIVX		2,413	73	0.48	2,499	66	0.41
W1AJXS		2,388	47	0.31	2,551	118	0.74

Plastics Interlaboratory Testing Program
Analysis 734
Modulus of Elasticity - MPa

Summary Statistics	
Grand Means	
2,340.9 MPa	2,433.2 MPa
Std Dev Btwn Labs	
150.1 MPa	158.5 MPa
Statistics based on 29 of 32 reporting participants	

Sample C51: ABS & Sample C52: ABS

Comments on assigned Data Flags for Test #734

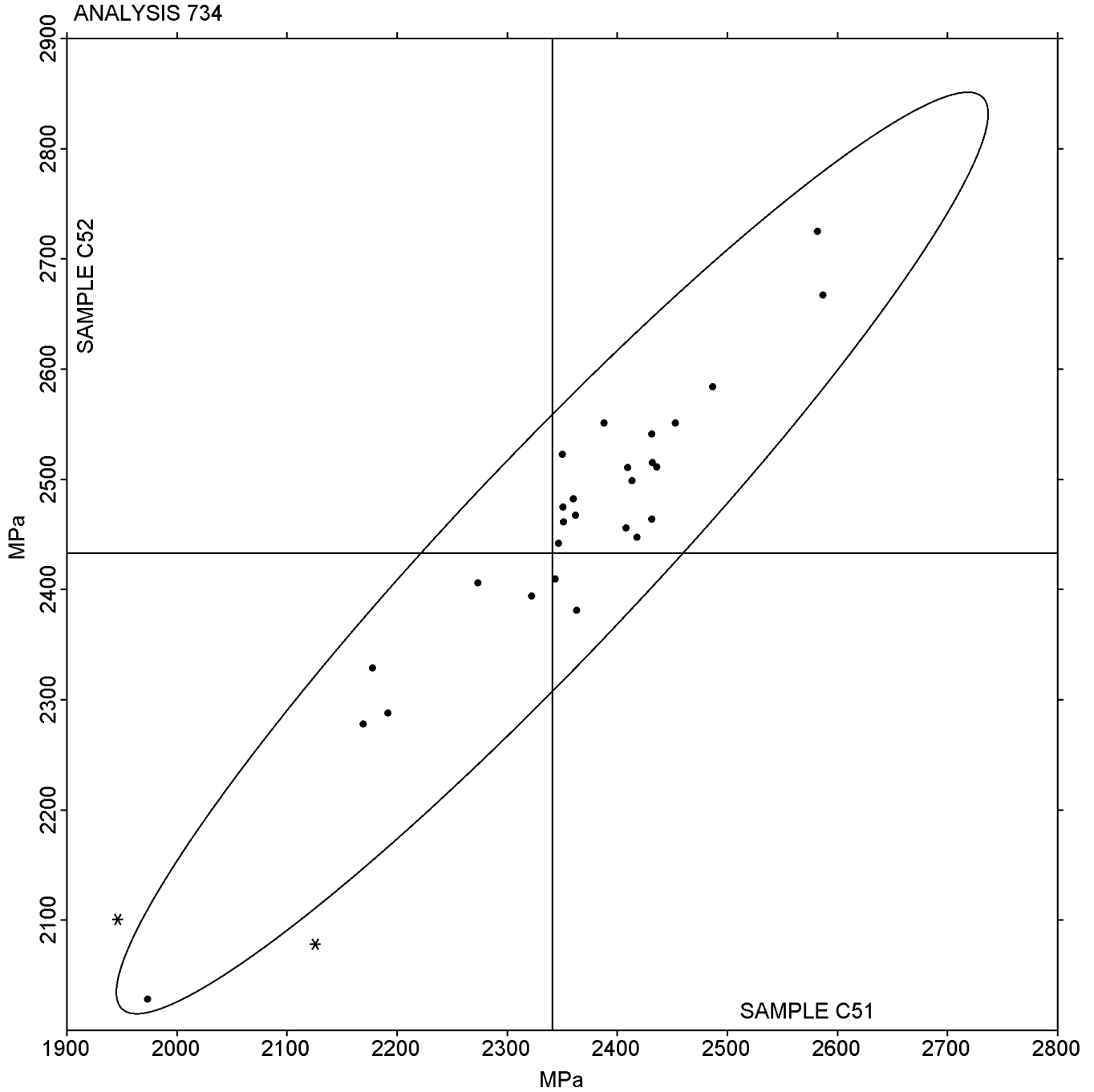
5A6UL1 (X) - High data for all samples.

LNEQSL (X) - High data for all samples. Also inconsistent in testing within Sample C52.

PBMG66 (X) - Low data for all samples.

Plastics Interlaboratory Testing Program
Analysis 734
Modulus of Elasticity - MPa

Grand Mean Sample C51: 2,340.85 MPa Grand Mean Sample C52: 2,433.17 MPa



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

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

WebCode	Data Flag	Sample J51			Sample J52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2P5NLX	X	388,730.2	388,354.4	22,395.62	373,443.4	373,078.1	21,518.32
3BF32F		366.8	-9.0	-0.52	362.4	-2.9	-0.17
3KQKBH	*	374.0	-1.8	-0.10	353.0	-12.3	-0.71
4ENC3U		356.9	-18.8	-1.09	347.5	-17.9	-1.03
5HB6YY		392.7	16.9	0.98	381.0	15.6	0.90
6AK6WY		385.8	10.1	0.58	376.5	11.2	0.65
6UGQRU		380.9	5.1	0.29	367.6	2.3	0.13
6WTPEK		392.9	17.1	0.99	383.4	18.1	1.04
6YM1BU		373.6	-2.2	-0.12	367.7	2.3	0.14
77HP3M		367.0	-8.7	-0.50	357.0	-8.3	-0.48
887QDT	X	0.4	-375.4	-21.65	0.4	-365.0	-21.05
887WM1	*	326.9	-48.9	-2.82	316.5	-48.8	-2.82
8F5CDA		375.8	0.1	0.00	365.4	0.1	0.00
8JY4YA		362.7	-13.0	-0.75	355.2	-10.1	-0.58
8K9KZQ		396.7	20.9	1.20	386.8	21.4	1.24
BXN5GY		367.3	-8.5	-0.49	353.9	-11.4	-0.66
C9U5G6		378.7	2.9	0.17	368.0	2.7	0.16
CJNLNX		388.7	12.9	0.75	377.5	12.1	0.70
CWEV4G	*	370.8	-5.0	-0.29	351.0	-14.3	-0.83
DA6U4U	X	343.5	-32.3	-1.86	361.5	-3.9	-0.22
DFJVSA		403.5	27.7	1.60	389.2	23.9	1.38
DT8Y4Y		373.7	-2.1	-0.12	363.6	-1.8	-0.10
E5E78A		416.2	40.4	2.33	401.9	36.6	2.11
EYBWUW		376.7	0.9	0.05	364.7	-0.6	-0.03
FVQ4PQ		363.3	-12.5	-0.72	357.0	-8.3	-0.48
G69BA5		350.5	-25.3	-1.46	337.2	-28.1	-1.62
GBERLE		373.0	-2.8	-0.16	363.6	-1.7	-0.10
H58AU4		383.6	7.8	0.45	369.6	4.3	0.25
JH7BM5		381.4	5.6	0.32	370.8	5.5	0.32
JLKF2H		348.4	-27.4	-1.58	343.2	-22.1	-1.28
JV98Q5		393.4	17.6	1.01	385.2	19.9	1.15
KBZ6C5		384.1	8.3	0.48	371.7	6.4	0.37

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

WebCode	Data Flag	Sample J51			Sample J52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
KKTRQB	X	366.3	-9.5	-0.55	326.3	-39.1	-2.25
LCSVCM		370.8	-5.0	-0.29	360.2	-5.2	-0.30
LJ6N67		394.0	18.2	1.05	382.6	17.2	0.99
LNRXQB	*	345.4	-30.4	-1.75	328.0	-37.3	-2.15
M7ZP2F		394.8	19.0	1.10	387.3	22.0	1.27
MAW5HM		380.3	4.6	0.26	368.2	2.8	0.16
MNCT2T		370.5	-5.2	-0.30	358.3	-7.1	-0.41
NKAWYF		382.2	6.4	0.37	375.2	9.8	0.57
PDKTDK		376.0	0.2	0.01	366.7	1.3	0.08
PZ5WSQ		377.4	1.6	0.09	376.0	10.6	0.61
R6VCX2		395.2	19.4	1.12	381.4	16.1	0.93
R9AT6B		390.8	15.0	0.87	382.3	17.0	0.98
RDZFEX		358.2	-17.5	-1.01	348.9	-16.4	-0.95
S24TTK		367.4	-8.4	-0.48	357.2	-8.2	-0.47
S888B6		349.3	-26.5	-1.53	337.5	-27.8	-1.60
SM2V72		413.0	37.2	2.15	398.7	33.3	1.92
SWQS8F		374.6	-1.2	-0.07	362.8	-2.5	-0.14
TGGXSQ		364.9	-10.9	-0.63	358.0	-7.4	-0.43
TSNHNP		359.8	-16.0	-0.92	349.6	-15.7	-0.91
U3CLTQ		397.1	21.3	1.23	386.3	20.9	1.21
UM5FPJ		399.6	23.8	1.37	389.8	24.4	1.41
VG3MJV		389.2	13.4	0.77	379.3	14.0	0.81
WKHSTH		377.4	1.6	0.09	374.7	9.4	0.54
XWFZKY		363.6	-12.2	-0.70	355.3	-10.0	-0.58
YAJFKL		356.8	-19.0	-1.09	340.9	-24.5	-1.41
YE48YJ		384.2	8.5	0.49	370.8	5.4	0.31
YFRJ6Q	X	375.2	-0.6	-0.03	348.2	-17.2	-0.99
YZY6XF		383.8	8.0	0.46	375.3	9.9	0.57
ZDTHRE		362.1	-13.7	-0.79	350.5	-14.9	-0.86
ZE5VAU		364.6	-11.2	-0.65	362.3	-3.0	-0.18
ZNCMF5		346.2	-29.6	-1.70	337.5	-27.8	-1.60

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

Summary Statistics	
Grand Means	
375.79 ksi	365.34 ksi
Std Dev Btwn Labs	
17.34 ksi	17.34 ksi
Statistics based on 58 of 63 reporting participants	

Sample J51: ABS & Sample J52: ABS

Comments on assigned Data Flags for Test #720

2P5NLX (X) - Extreme data. Default unit (ksi) used, but data appear to be in psi.

887QDT (X) - Extreme data. Lab indicated reporting in psi, but data appear to be in ksi.

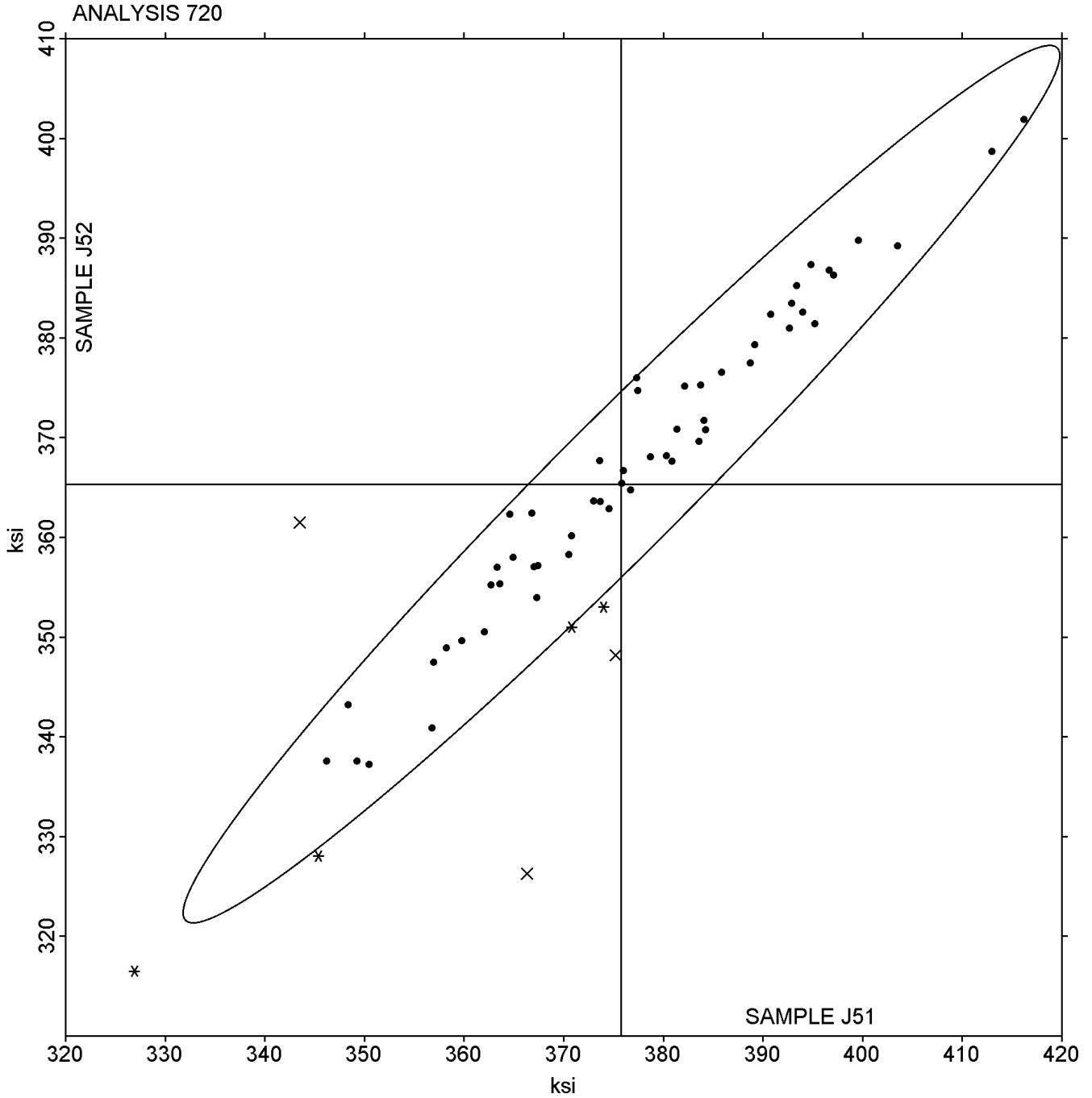
DA6U4U (X) - Inconsistent in testing between samples.

KKTRQB (X) - Inconsistent in testing between samples.

YFRJ6Q (X) - Inconsistent in testing between samples.

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

Grand Mean Sample J51: 375.79 ksi Grand Mean Sample J52: 365.34 ksi



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

Plastics Interlaboratory Testing Program
Analysis 721

Flexural Stress at 5% Strain - psi

WebCode	Data Flag	Sample J51			Sample J52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
11ALF3		10,804	165	0.46	11,111	145	0.38
2XYASY		10,926	287	0.80	11,308	342	0.89
37EGRL		10,241	-398	-1.11	10,465	-500	-1.31
3HSQ8N		10,736	97	0.27	11,052	86	0.23
47KGZ7		10,038	-601	-1.67	10,374	-592	-1.55
57S7AV	*	10,469	-169	-0.47	10,519	-447	-1.17
7NEAST		10,178	-461	-1.28	10,433	-533	-1.39
93C6XJ		10,711	73	0.20	11,071	106	0.28
9DNSNQ		11,037	398	1.11	11,366	400	1.05
9ZLUMQ	X	10,060	-578	-1.61	11,070	104	0.27
AN73P7		10,543	-96	-0.27	10,836	-130	-0.34
BGGXHD		10,588	-51	-0.14	10,870	-96	-0.25
BHK31W		10,691	53	0.15	10,971	6	0.01
BWUZX9		10,174	-465	-1.30	10,324	-641	-1.68
CQLPWN		10,889	251	0.70	11,159	193	0.50
EC9CZQ		10,372	-266	-0.74	10,704	-261	-0.68
EX3F7V		10,369	-270	-0.75	10,670	-295	-0.77
F4ZKB3	*	11,694	1,055	2.94	12,027	1,061	2.77
FRVW67		10,712	74	0.21	11,097	132	0.34
FW4K6V		10,791	152	0.42	11,130	164	0.43
GBN213		10,426	-213	-0.59	10,813	-152	-0.40
H33HJB		11,228	589	1.64	11,646	680	1.78
J75WG8		10,017	-622	-1.73	10,411	-555	-1.45
JTBRS3		10,850	211	0.59	11,096	131	0.34
K8E7ZK		10,286	-352	-0.98	10,675	-291	-0.76
KAKE2Y		10,227	-411	-1.15	10,576	-390	-1.02
KJFL2X		10,767	128	0.36	11,108	142	0.37
MCEGKW		10,785	147	0.41	11,243	277	0.72
MNE21G		10,442	-197	-0.55	10,841	-125	-0.33
MUUKX3		10,438	-200	-0.56	10,793	-173	-0.45
R3RQ3J		11,240	601	1.68	11,740	774	2.02
RJQNMS		11,060	422	1.17	11,383	417	1.09

**Plastics Interlaboratory Testing Program
Analysis 721**

Flexural Stress at 5% Strain - psi

WebCode	Data Flag	Sample J51			Sample J52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
S3V77R		10,364	-274	-0.76	10,754	-212	-0.55
SVXQFH		10,553	-85	-0.24	10,945	-21	-0.06
SWKKML		10,629	-9	-0.03	10,900	-65	-0.17
T8AZL2		10,636	-3	-0.01	10,826	-139	-0.36
UJ7XRU		10,663	25	0.07	11,032	66	0.17
UNYRKX		11,342	704	1.96	11,618	652	1.70
VIAUS1		10,429	-210	-0.58	10,811	-154	-0.40
WUTZWP		10,558	-81	-0.22	11,081	115	0.30
Y2TWBP		10,637	-1	0.00	10,852	-114	-0.30

Summary Statistics

Grand Means

10,638.5 psi

10,965.8 psi

Std Dev Btwn Labs

358.9 psi

382.8 psi

Statistics based on 40 of 41 reporting participants

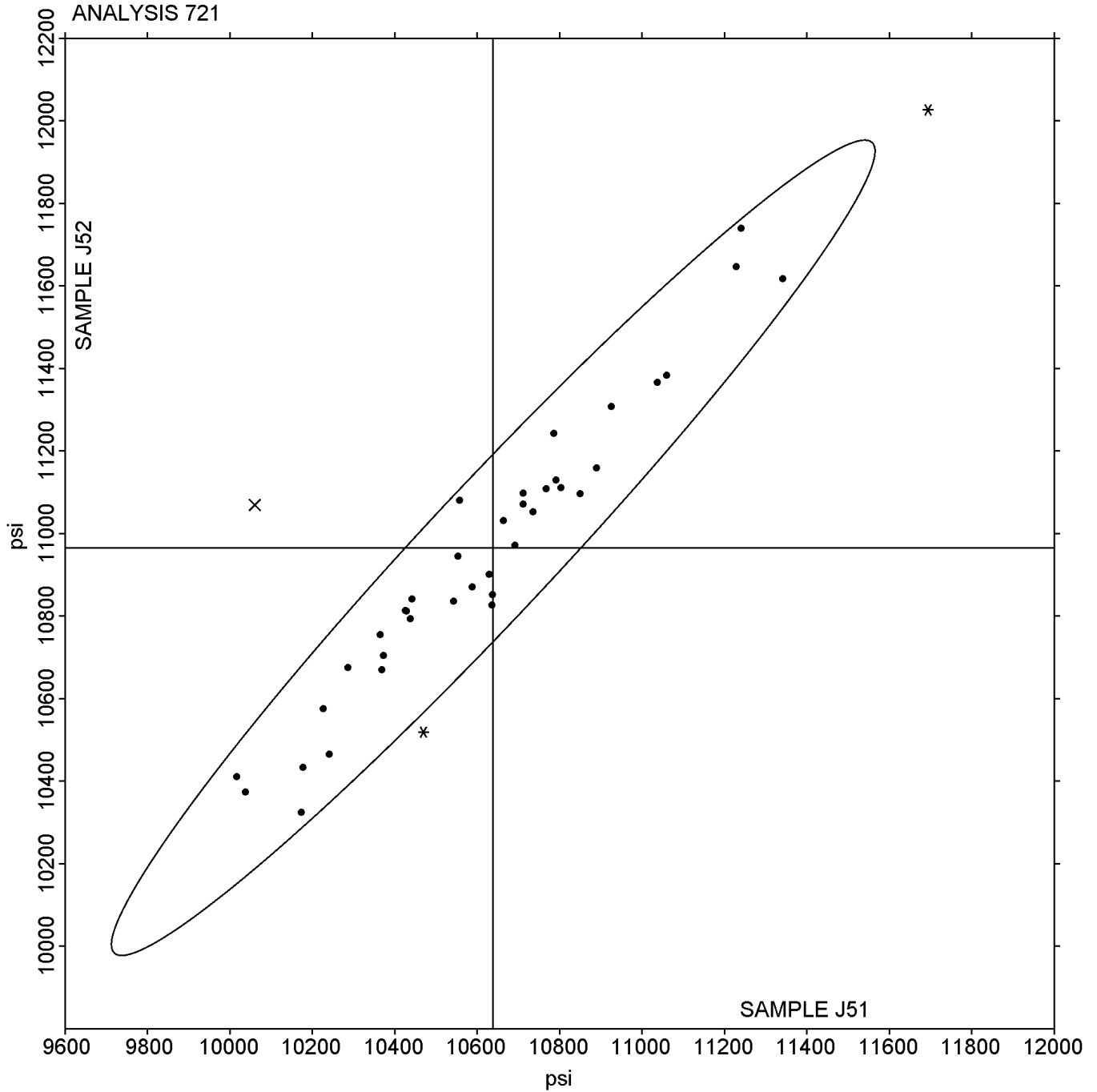
Sample J51: ABS & Sample J52: ABS

Comments on assigned Data Flags for Test #721

9ZLUMQ (X) - Inconsistent in testing between samples.

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

Grand Mean Sample J51: 10,638.51 psi Grand Mean Sample J52: 10,965.78 psi



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

Analysis 722

Flexural Stress at Yield - psi

WebCode	Data Flag	Sample J51			Sample J52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
25WZ72		10,333	-336	-1.17	10,689	-300	-1.00
31VM1U		10,672	3	0.01	10,954	-35	-0.12
3GTN4P		10,953	284	0.99	11,351	362	1.21
3YF1Y1		10,871	202	0.70	11,156	167	0.56
534RFN		10,605	-64	-0.22	10,970	-19	-0.06
6J1VHD		10,295	-374	-1.30	10,511	-478	-1.59
7C3D7Y		10,539	-129	-0.45	10,871	-118	-0.39
7CPLT9		10,459	-210	-0.73	10,813	-176	-0.59
83NGHE	X	10,122	-546	-1.90	11,098	109	0.36
8ACELE		10,762	93	0.32	10,945	-44	-0.15
98DBZG		10,912	243	0.85	11,175	186	0.62
9A3JHK		10,813	145	0.50	10,968	-21	-0.07
9DSCKN		11,244	575	2.00	11,662	673	2.24
AJMB45		10,568	-101	-0.35	11,029	40	0.13
AWPJD5		10,601	-68	-0.24	10,965	-24	-0.08
BMXMEG		10,783	114	0.40	11,102	113	0.38
BS1V8B	X	10,722	54	0.19	10,650	-339	-1.13
CWEV1S		10,585	-84	-0.29	10,858	-131	-0.44
D43341		10,771	102	0.35	11,124	136	0.45
E8ZHAX		10,203	-465	-1.62	10,521	-468	-1.56
EK9KGT		11,019	351	1.22	11,382	393	1.31
FK744D		10,671	2	0.01	11,102	113	0.38
FSQX81		10,589	-80	-0.28	10,864	-125	-0.42
GCD76F		10,499	-170	-0.59	10,850	-139	-0.46
H9DQZM		10,166	-503	-1.75	10,504	-485	-1.62
HHWYNW		10,738	69	0.24	10,956	-33	-0.11
HQN43E		10,366	-303	-1.05	10,642	-347	-1.16
HTA131		10,534	-135	-0.47	10,804	-185	-0.62
JEJB9D	*	10,320	-349	-1.21	10,843	-146	-0.49
L1DUJ3		10,359	-309	-1.08	10,648	-341	-1.14
LMC4SY	X	0	-10,669	-37.09	0	-10,989	-36.63
MHPQ5K		10,509	-159	-0.55	10,908	-81	-0.27

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

WebCode	Data Flag	Sample J51			Sample J52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
NEFBZJ		10,785	117	0.41	11,039	51	0.17
QFGR4Q		10,288	-381	-1.32	10,578	-411	-1.37
QG7YZB		10,931	263	0.91	11,185	196	0.65
R3HC3V	*	11,244	575	2.00	11,384	395	1.32
RK4U88		11,109	440	1.53	11,407	418	1.39
S5KMR2		10,982	314	1.09	11,311	322	1.07
TFVZ3H		10,397	-272	-0.94	10,733	-256	-0.85
TQQYDL		10,568	-101	-0.35	10,800	-189	-0.63
UJNR4G		10,898	230	0.80	11,275	286	0.95
VR7HML		10,581	-88	-0.31	10,981	-8	-0.03
X7XXL4		10,273	-396	-1.38	10,486	-503	-1.68
XVRGYD	*	11,280	611	2.13	11,740	751	2.50
Y27ADD		10,824	156	0.54	11,152	163	0.54
Z9ZRDN		10,856	188	0.65	11,285	296	0.99

Summary Statistics

Grand Means

10,668.7 psi

10,988.9 psi

Std Dev Btwn Labs

287.6 psi

300.0 psi

Statistics based on 43 of 46 reporting participants

Sample J51: ABS & Sample J52: ABS

Comments on assigned Data Flags for Test #722

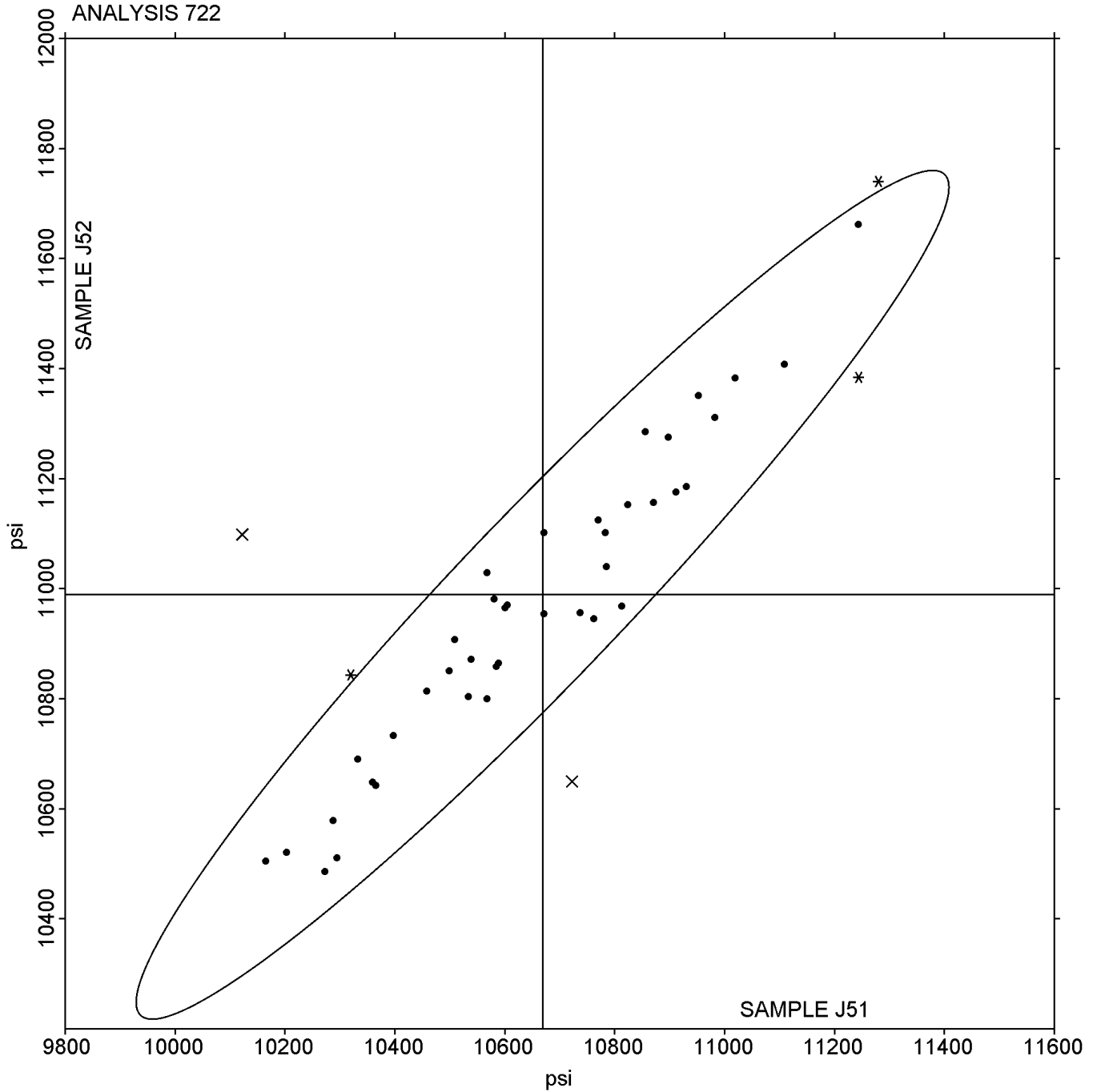
83NGHE (X) - Inconsistent in testing between samples.

BS1V8B (X) - Inconsistent in testing between samples.

LMC4SY (X) - Extreme data.

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

Grand Mean Sample J51: 10,668.67 psi Grand Mean Sample J52: 10,988.92 psi



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

Plastics Interlaboratory Testing Program
Analysis 736
Flexural Modulus - MPa

WebCode	Data Flag	Sample K51			Sample K52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
11YPG7		2,570	83	0.87	2,494	75	0.81
1RWE2V	*	2,317	-170	-1.78	2,214	-205	-2.21
29NS43		2,384	-103	-1.09	2,325	-93	-1.00
7EA3S1	X	2,749	262	2.76	2,764	346	3.72
7LXWMG		2,541	54	0.57	2,462	43	0.47
7ZAZP2		2,584	97	1.02	2,514	95	1.02
B9A78M		2,468	-19	-0.20	2,418	0	0.00
B9QKKE		2,510	23	0.24	2,454	35	0.38
BR2B4H		2,397	-89	-0.94	2,322	-97	-1.04
CDDLVA	X	2,615	128	1.35	2,453	34	0.37
CDFQN3		2,503	17	0.18	2,453	35	0.37
D55B9K		2,660	173	1.82	2,592	173	1.87
DN8DCL		2,656	169	1.78	2,602	183	1.97
GFG271		2,496	10	0.10	2,413	-6	-0.06
GTJ56W		2,467	-20	-0.21	2,431	12	0.13
JKLNL8		2,584	97	1.02	2,495	76	0.82
L9RC7K		2,376	-110	-1.16	2,340	-79	-0.85
LA71G7		2,445	-42	-0.44	2,364	-54	-0.59
LJ2RPR		2,488	2	0.02	2,423	4	0.04
LQMQLB		2,585	98	1.03	2,519	100	1.08
MTGWHH		2,446	-40	-0.42	2,350	-69	-0.74
NVPNLQ		2,559	72	0.76	2,468	50	0.54
PXLCVB	X	2,897	411	4.32	2,781	363	3.90
R2F7B9	X	2,690	203	2.14	2,443	25	0.27
R4X8JX		2,538	51	0.54	2,466	48	0.51
RQRFNX		2,285	-201	-2.12	2,231	-188	-2.02
SFTJ3P		2,455	-32	-0.34	2,406	-13	-0.14
TWDGTF		2,454	-33	-0.34	2,402	-17	-0.18
U5GUVR	X	2,490	3	0.03	2,600	182	1.96
URWTAJ		2,515	28	0.29	2,404	-15	-0.16
UXPFD8		2,398	-89	-0.93	2,358	-61	-0.65
UZE16T		2,577	90	0.95	2,492	73	0.79

Plastics Interlaboratory Testing Program
Analysis 736
Flexural Modulus - MPa

WebCode	Data Flag	Sample K51			Sample K52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
VRRUG7		2,599	112	1.18	2,514	95	1.02
WGDQP9		2,473	-14	-0.14	2,417	-1	-0.01
XHX5DJ	X	2,372	-115	-1.21	2,211	-207	-2.23
ZTQB7D		2,434	-53	-0.56	2,378	-41	-0.44
ZVEL56		2,325	-162	-1.71	2,257	-161	-1.74

Summary Statistics

Grand Means

2,486.7 MPa

2,418.6 MPa

Std Dev Btwn Labs

95.0 MPa

92.9 MPa

Statistics based on 31 of 37 reporting participants

Sample K51: ABS & Sample K52: ABS

Comments on assigned Data Flags for Test #736

7EA3S1 (X) - High data for all samples.

CDDLVA (X) - Inconsistent in testing between samples.

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

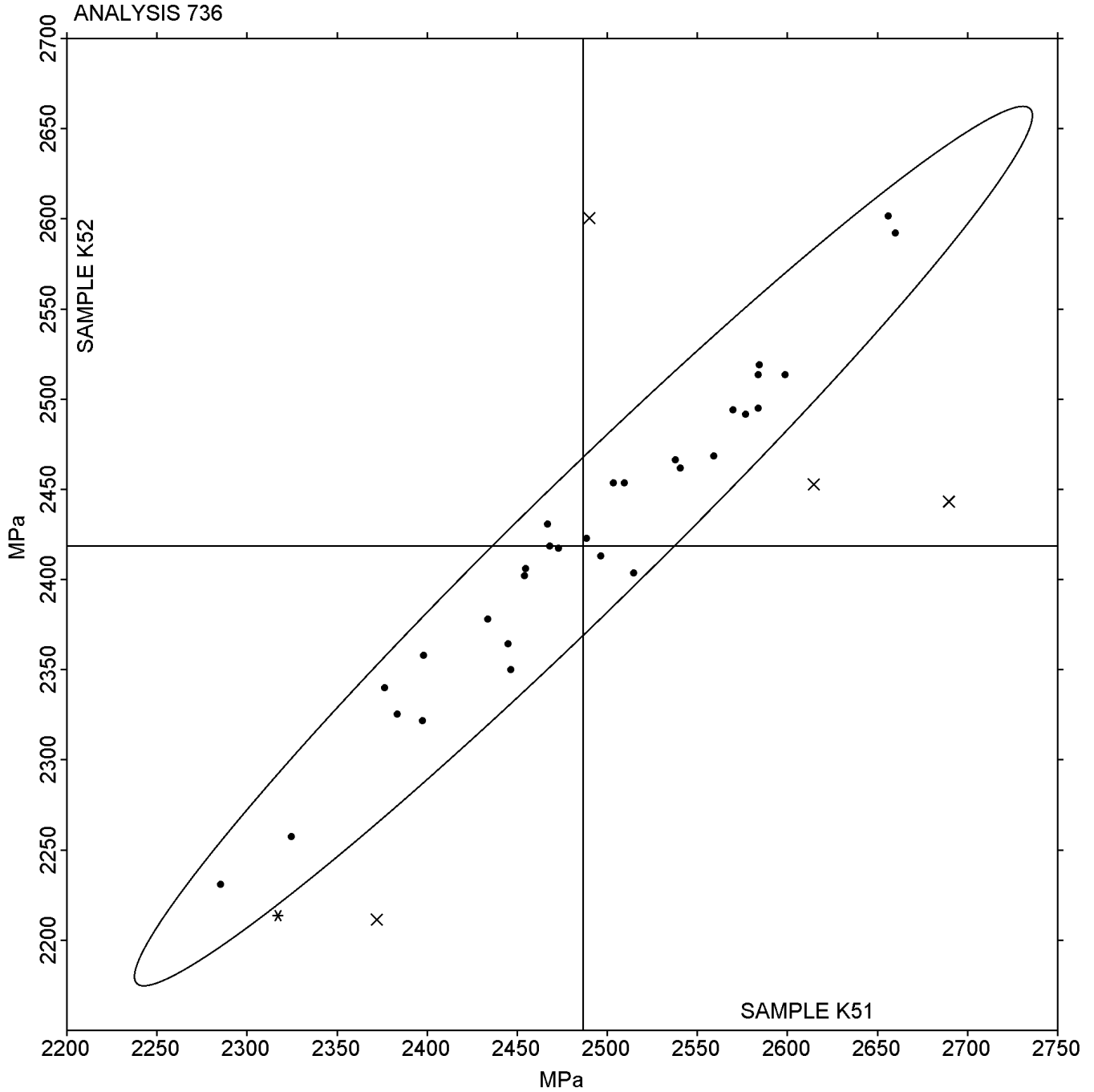
R2F7B9 (X) - Inconsistent in testing between samples.

U5GUVR (X) - Inconsistent in testing between samples.

XHX5DJ (X) - Inconsistent in testing between samples.

Plastics Interlaboratory Testing Program
Analysis 736
Flexural Modulus - MPa

Grand Mean Sample K51: 2,486.73 MPa Grand Mean Sample K52: 2,418.57 MPa



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

Plastics Interlaboratory Testing Program
Analysis 737

Flexural Stress at 3.5% Strain - MPa

WebCode	Data Flag	Sample K51			Sample K52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
11DNBR		72.20	0.30	0.18	73.40	0.40	0.24
2FJH51		72.21	0.31	0.18	73.24	0.24	0.14
3EFPLY		72.48	0.58	0.34	73.93	0.93	0.56
3H43DU		70.30	-1.59	-0.94	72.14	-0.86	-0.52
3K8WY6	*	76.63	4.73	2.78	77.00	4.00	2.43
4VTT5Z		72.01	0.12	0.07	73.61	0.61	0.37
797XA3		69.05	-2.84	-1.67	70.48	-2.52	-1.53
8A775Y		70.39	-1.50	-0.88	71.36	-1.64	-1.00
8BA4CG		70.96	-0.94	-0.55	72.26	-0.74	-0.45
AZ79LV		69.70	-2.20	-1.29	70.92	-2.08	-1.26
CET9JT		73.52	1.62	0.95	73.88	0.88	0.54
CKN5LR		72.55	0.65	0.38	73.44	0.44	0.27
EU2JFJ		74.50	2.61	1.53	75.60	2.60	1.58
F6QUF6		71.91	0.01	0.00	73.35	0.35	0.22
G8G7WJ		71.74	-0.16	-0.09	72.69	-0.31	-0.19
LAXEJE		73.80	1.91	1.12	75.07	2.07	1.26
LEWZUW		71.29	-0.61	-0.36	72.07	-0.93	-0.56
N5DM72		69.79	-2.11	-1.24	70.98	-2.02	-1.23
NK9YNH		71.88	-0.02	-0.01	72.94	-0.06	-0.03
NN9465	*	73.46	1.56	0.92	75.94	2.94	1.78
TKKLMR		69.07	-2.82	-1.66	70.68	-2.32	-1.41
VDRRMW		71.73	-0.16	-0.10	72.75	-0.25	-0.15
VECCT1		71.22	-0.68	-0.40	71.96	-1.04	-0.63
WP436R	*	72.35	0.45	0.27	71.70	-1.30	-0.79
ZAC7MU		71.58	-0.32	-0.19	72.38	-0.62	-0.38
ZN6GRE		73.00	1.10	0.65	74.21	1.21	0.74

Plastics Interlaboratory Testing Program
Analysis 737

Flexural Stress at 3.5% Strain - MPa

Summary Statistics

Grand Means

71.898 MPa

72.999 MPa

Std Dev Btwn Labs

1.700 MPa

1.649 MPa

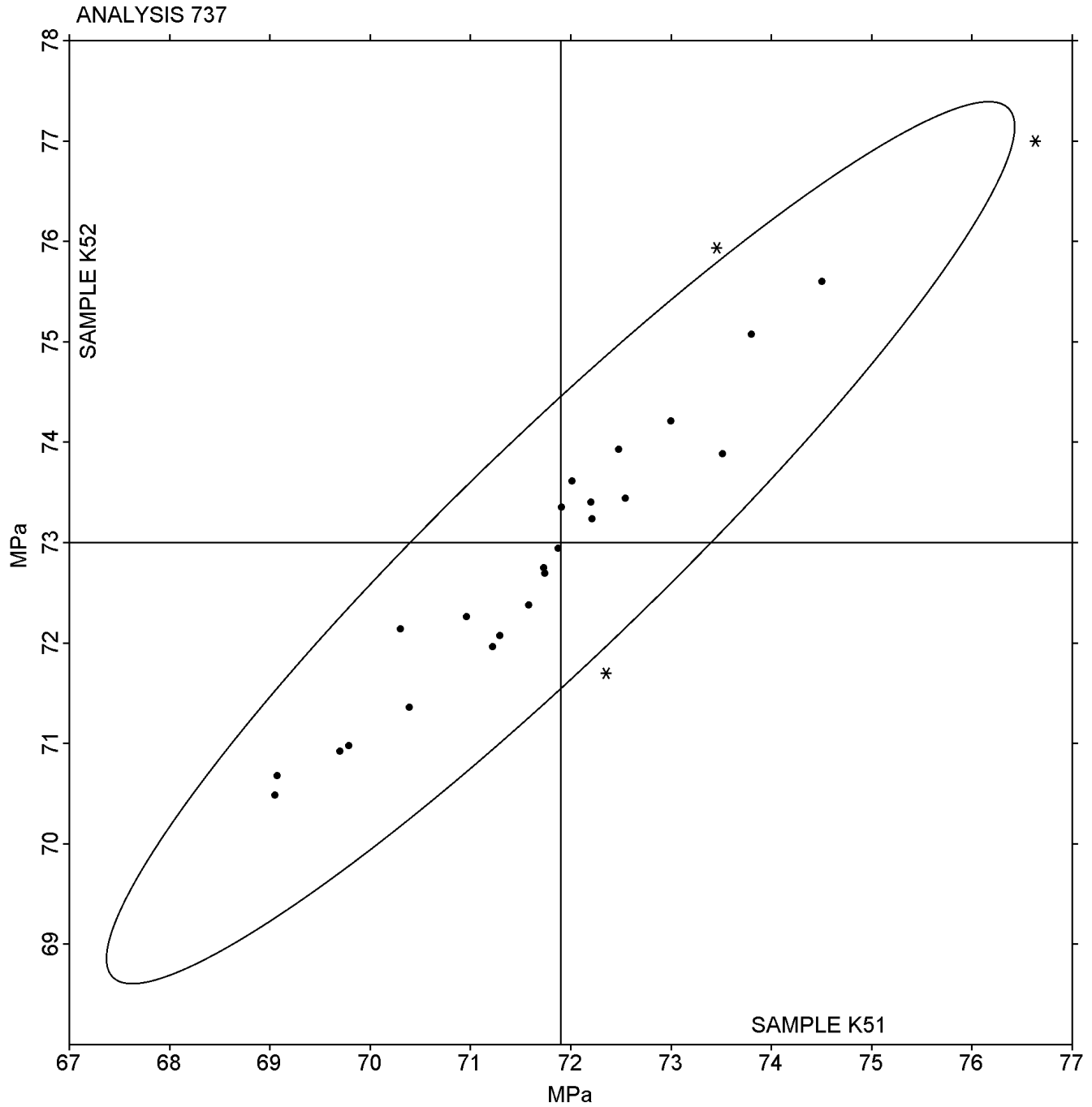
Statistics based on 26 of 26 reporting participants

Sample K51: ABS & Sample K52: ABS

Analysis 737

Flexural Stress at 3.5% Strain - MPa

Grand Mean Sample K51: 71.898 MPa Grand Mean Sample K52: 72.999 MPa



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

Plastics Interlaboratory Testing Program
Analysis 738

Flexural Stress at Yield - MPa

WebCode	Data Flag	Sample K51			Sample K52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1JL3AL		72.69	0.48	0.25	75.51	0.77	0.39
2X9WP4		71.76	-0.45	-0.24	74.20	-0.54	-0.27
2YVCGQ		71.24	-0.97	-0.51	74.60	-0.13	-0.07
355D6V		71.40	-0.81	-0.42	74.12	-0.62	-0.31
689EJU		74.79	2.58	1.35	76.89	2.15	1.10
7FEHA6		72.97	0.76	0.40	75.86	1.12	0.57
KXB8WQ		69.40	-2.81	-1.47	71.79	-2.95	-1.50
LFSGZP	*	77.94	5.73	3.00	80.66	5.92	3.02
MW5KKK		71.83	-0.38	-0.20	73.50	-1.23	-0.63
NJ2X3Q		71.58	-0.63	-0.33	74.58	-0.16	-0.08
PLHTZH		70.20	-2.01	-1.05	72.70	-2.04	-1.04
RQMG7P	*	71.20	-1.01	-0.53	76.38	1.65	0.84
SIGYQR		70.87	-1.34	-0.70	73.11	-1.63	-0.83
S23GY Y		74.29	2.08	1.09	76.94	2.20	1.12
TAFMT2		71.85	-0.36	-0.19	73.66	-1.08	-0.55
TRETQ6		71.96	-0.25	-0.13	73.74	-1.00	-0.51
UB6KT B		73.80	1.59	0.83	75.10	0.37	0.19
UTS664		71.57	-0.64	-0.33	73.46	-1.28	-0.65
VNVZ3A		69.52	-2.69	-1.41	72.30	-2.44	-1.24
ZFRRD4		72.37	0.16	0.08	75.19	0.45	0.23
ZK8HH3		73.19	0.98	0.51	75.16	0.43	0.22

Summary Statistics

Grand Means

72.212 MPa

74.735 MPa

Std Dev Btwn Labs

1.911 MPa

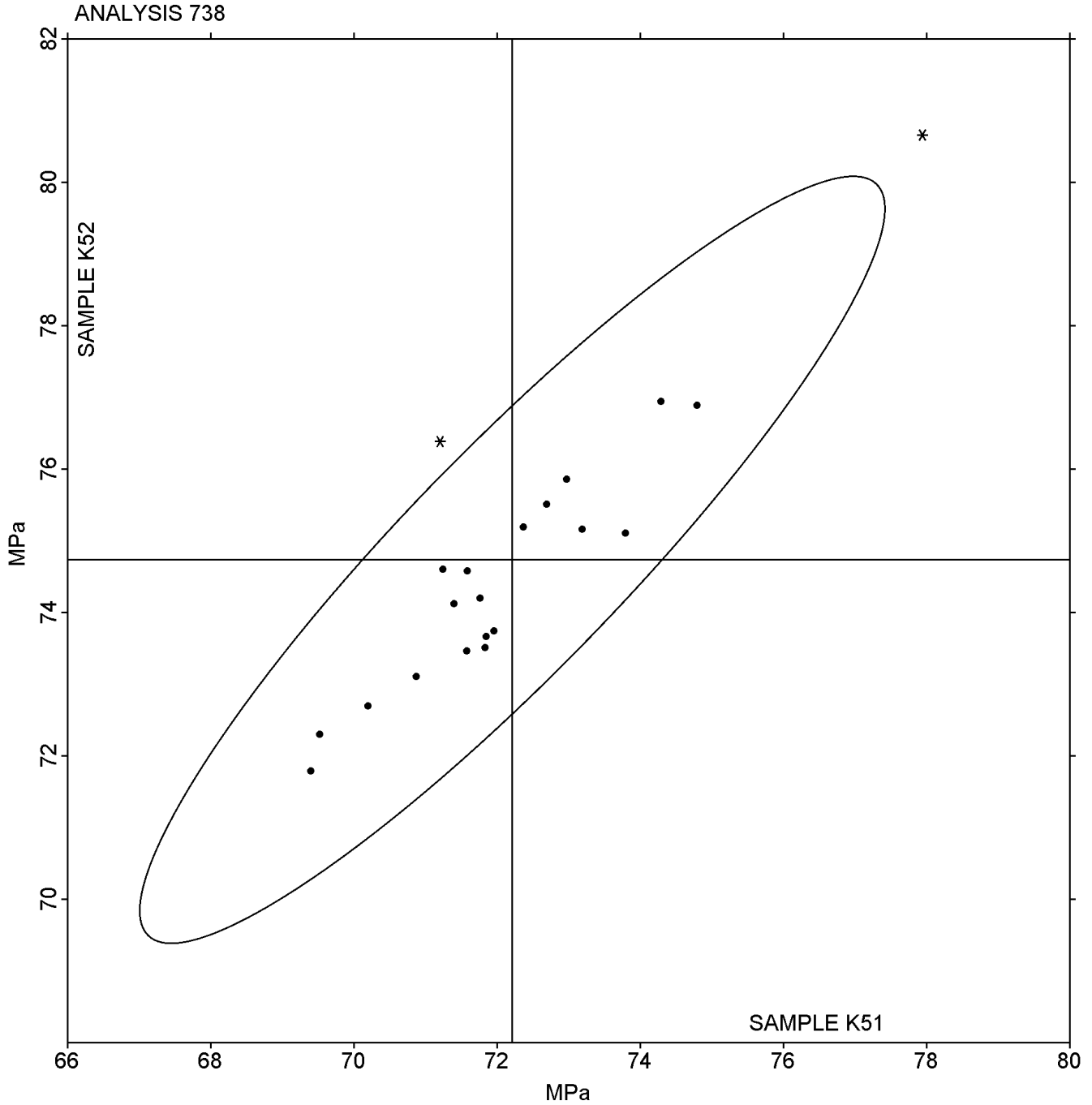
1.964 MPa

Statistics based on 21 of 21 reporting participants

Sample K51: ABS & Sample K52: ABS

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

Grand Mean Sample K51: 72.212 MPa Grand Mean Sample K52: 74.735 MPa



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

Analysis 790

Notched Izod Impact - ft.lbf/in

WebCode	Data Flag	Sample S51			Sample S52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
155EHE		6.17	-0.43	-1.10	5.84	-0.72	-1.75	CE
1UXUTD		6.86	0.26	0.65	7.02	0.47	1.14	TO
2RF1M6	*	5.60	-1.00	-2.55	5.85	-0.70	-1.71	TO
2UNYHN		6.20	-0.40	-1.01	6.27	-0.29	-0.70	TM
33N9QU		6.63	0.03	0.07	6.83	0.28	0.68	XX
3D94EB		6.97	0.37	0.95	6.94	0.39	0.94	TO
3TNCC6		6.66	0.06	0.15	6.55	0.00	0.00	TO
3YQ7PQ		7.39	0.79	2.01	7.56	1.01	2.45	TM
44RCRX		6.68	0.08	0.20	6.43	-0.13	-0.31	CE
52PJY2		6.84	0.24	0.62	6.73	0.17	0.42	XX
74MST6		5.82	-0.78	-1.99	5.87	-0.69	-1.68	TO
7B4AFA		7.30	0.70	1.78	7.23	0.68	1.65	TM
7SKAGT		6.83	0.23	0.57	6.28	-0.28	-0.67	TO
7XWTCW		6.91	0.31	0.80	6.52	-0.04	-0.09	TM
85XF2N		6.78	0.18	0.45	6.93	0.37	0.90	TM
89QSCU		6.73	0.13	0.33	6.87	0.32	0.77	TO
8VRLSH		6.85	0.25	0.64	6.47	-0.08	-0.20	TO
AFF59M		6.38	-0.22	-0.55	6.50	-0.06	-0.14	TO
AKC2SG		6.48	-0.12	-0.32	6.61	0.05	0.13	TM
AWMU4V		6.79	0.19	0.49	6.77	0.21	0.52	TO
BDGX4I		5.71	-0.89	-2.26	6.03	-0.52	-1.28	TM
BGSJEL		6.27	-0.33	-0.85	6.40	-0.15	-0.38	TM
BNZB56		6.98	0.38	0.97	7.00	0.44	1.08	TO
CXLABC		6.67	0.07	0.17	6.52	-0.03	-0.08	TO
E27WXH		6.53	-0.07	-0.18	6.57	0.02	0.04	TY
E8ZYF6		6.77	0.17	0.42	6.90	0.34	0.84	TM
EK2M64	*	7.37	0.77	1.96	7.66	1.10	2.68	TM
EN3D3J		6.30	-0.30	-0.77	6.46	-0.09	-0.22	MI
FP9Z91		6.53	-0.07	-0.18	6.42	-0.13	-0.32	TM
GGX7M3	X	2.11	-4.49	-11.40	2.13	-4.43	-10.79	TM
GKKGCJ		6.90	0.30	0.77	6.71	0.15	0.37	WZ
GSMRKV		6.38	-0.22	-0.57	5.94	-0.61	-1.49	TO

Analysis 790

Notched Izod Impact - ft.lbf/in

WebCode	Data Flag	Sample S51			Sample S52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
H5656R		6.35	-0.25	-0.64	6.75	0.20	0.48	TM
H9P6K9		6.16	-0.44	-1.11	6.60	0.04	0.11	TM
HLCD2T		6.99	0.39	1.00	6.96	0.40	0.98	TO
HPUAAN		6.56	-0.04	-0.09	6.71	0.15	0.37	TM
HUTC5E		6.10	-0.50	-1.28	5.75	-0.81	-1.97	TM
HZE24X		6.77	0.17	0.43	6.64	0.08	0.20	TM
J7GRTK		6.61	0.01	0.03	6.50	-0.06	-0.14	CE
JHNVNP		5.81	-0.79	-2.01	6.10	-0.45	-1.11	TO
JHXFUD		7.18	0.58	1.47	6.97	0.41	1.00	TO
JSZDCC		6.42	-0.18	-0.46	6.12	-0.44	-1.06	TO
KCYT2Q		6.08	-0.52	-1.33	6.13	-0.43	-1.04	BA
KJKY4L		6.28	-0.32	-0.82	6.06	-0.49	-1.20	TM
L65LV1		6.33	-0.27	-0.69	6.52	-0.04	-0.09	XX
LGTCPM		7.18	0.58	1.48	7.31	0.75	1.83	CE
LL1G3R		6.61	0.01	0.02	6.52	-0.03	-0.08	TM
LQKEQL		7.16	0.56	1.41	6.81	0.26	0.63	TM
LV1264	*	5.57	-1.03	-2.63	5.77	-0.79	-1.93	TM
LXN98B	X	7.03	0.43	1.09	6.13	-0.43	-1.04	BA
M6368U		6.62	0.02	0.05	6.68	0.12	0.29	TM
NBDF65		6.17	-0.43	-1.09	6.20	-0.36	-0.87	CE
NNGXJW		6.62	0.02	0.06	6.39	-0.16	-0.40	TM
NW4JBC		6.52	-0.08	-0.19	6.11	-0.44	-1.08	IN
P3DGVS		6.62	0.02	0.05	6.63	0.07	0.17	TM
PJEWWD		6.63	0.03	0.07	6.45	-0.11	-0.27	TO
QG1VY9		6.69	0.09	0.22	6.66	0.11	0.26	TO
QRP9ZF		6.83	0.23	0.59	7.04	0.49	1.19	TM
QUIRV1		6.52	-0.08	-0.21	6.30	-0.26	-0.63	TO
S46UKL		6.62	0.01	0.04	6.65	0.09	0.22	TO
SQW3MC		6.59	-0.01	-0.03	6.21	-0.34	-0.83	BA
SWDUB9	X	9.02	2.42	6.14	9.02	2.46	6.01	TO
T3VM8C	M	6.85	0.25	0.63	No data reported for this sample			TO
TNQ87Q		6.73	0.13	0.34	6.60	0.04	0.11	BA

**Plastics Interlaboratory Testing Program
Analysis 790**

Notched Izod Impact - ft.lbf/in

WebCode	Data Flag	Sample S51			Sample S52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
TZ15C8		6.56	-0.04	-0.10	6.81	0.26	0.63	CE
U6JE7Y		6.45	-0.15	-0.39	6.35	-0.21	-0.50	CE
UBQG1S		6.16	-0.44	-1.11	5.82	-0.74	-1.80	WY
UEJRY		6.49	-0.11	-0.29	6.33	-0.23	-0.56	TO
V78Z9B		6.20	-0.40	-1.02	5.93	-0.62	-1.52	CS
VAPEG1	X	4.69	-1.91	-4.84	4.53	-2.02	-4.93	TO
VPPBLM		6.40	-0.20	-0.51	6.85	0.29	0.71	TO
VWUFXJ		6.97	0.37	0.93	6.60	0.04	0.10	TM
VYAQWX	X	5.53	-1.07	-2.71	6.44	-0.12	-0.28	TO
WEZWGG		7.04	0.44	1.13	7.40	0.84	2.05	XX
X1F59S		6.44	-0.16	-0.40	6.18	-0.38	-0.93	TM
X6JSWT		6.62	0.02	0.05	6.38	-0.17	-0.42	TO
XWMD9K		6.62	0.02	0.05	6.74	0.18	0.44	TO
Y24CXE		7.29	0.69	1.76	6.85	0.30	0.72	TO
YBLKDA		6.51	-0.09	-0.24	6.38	-0.18	-0.43	TO
YNEFSV		6.81	0.21	0.54	6.58	0.03	0.07	CE
YPRQHG		6.21	-0.39	-0.99	6.22	-0.33	-0.81	CE
YSUYR9		6.77	0.17	0.44	7.00	0.45	1.09	CS
ZAEYYF		7.27	0.67	1.70	7.21	0.66	1.61	CE
ZBTAN2		7.10	0.50	1.27	6.66	0.11	0.26	TM
ZF2SL4		6.94	0.34	0.87	6.78	0.23	0.56	TO

Summary Statistics

Grand Means

6.601 ft.lbf/in

6.556 ft.lbf/in

Std Dev Btwn Labs

0.394 ft.lbf/in

0.410 ft.lbf/in

Statistics based on 79 of 85 reporting participants

Sample S51: ABS & Sample S52: ABS

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

Comments on assigned Data Flags for Test #790

GGX7M3 (X) - Low data for all samples.

LXN98B (X) - Inconsistent in testing between samples.

SWDUB9 (X) - High data for all samples. Also Inconsistent in testing within Sample S52.

T3VM8C (M) - Inconsistent in testing between samples.

VAPEG1 (X) - Low data for all samples.

VYAQWX (X) - Inconsistent in testing between samples.

Instrument Code List as Reported by the Labs

(BA) - Baldwin

(CS) - CSI

(MI) - Mitsubishi

(TO) - Tinius Olsen

(WY) - Yasuda Seiki

(XX) - Instrument manufacturer not specified by lab

(CE) - Ceast

(IN) - Instron

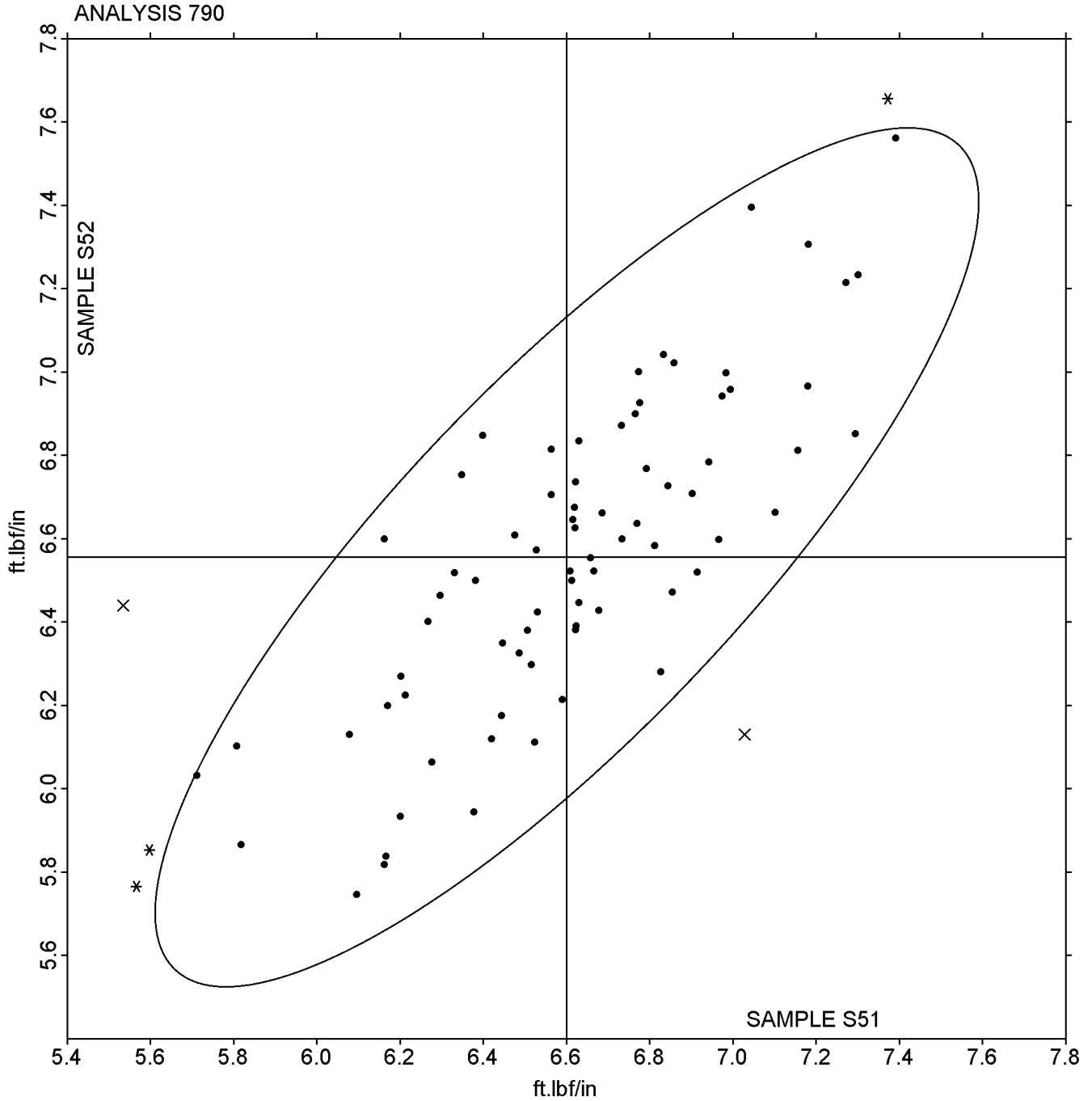
(TM) - TMI

(TY) - Toyoseiki

(WZ) - Zwick

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

Grand Mean Sample S51: 6.6006 ft.lbf/in Grand Mean Sample S52: 6.5556 ft.lbf/in



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

Plastics Interlaboratory Testing Program

Analysis 792

Notched Charpy Impact - kJ/m²

WebCode	Data Flag	Sample M51			Sample M52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1K3JRD		24.46	-0.05	-0.02	21.90	0.59	0.36	TO
2L3AQS		23.67	-0.84	-0.40	19.91	-1.40	-0.86	KF
2VZEED		25.76	1.25	0.59	23.19	1.88	1.15	CE
36WPJU		24.44	-0.07	-0.03	21.53	0.22	0.14	TM
4Y4Y8S		25.84	1.33	0.63	21.76	0.45	0.28	TM
8U42BN		24.63	0.12	0.06	21.99	0.68	0.42	TY
A47S78		25.24	0.73	0.35	22.87	1.56	0.96	TM
APMR8B		27.22	2.71	1.29	21.72	0.41	0.25	CE
BZZA5C		23.98	-0.53	-0.25	20.43	-0.88	-0.54	TM
CFSTR7		25.61	1.10	0.52	22.24	0.92	0.57	BA
DV4L12		25.93	1.42	0.68	22.29	0.97	0.60	SA
DWXNJR		24.18	-0.33	-0.16	21.34	0.02	0.01	CE
G9DY32		20.71	-3.80	-1.80	18.68	-2.63	-1.62	TM
HAUVEQ		22.52	-1.99	-0.94	19.74	-1.57	-0.97	TO
HKE6UY		24.85	0.34	0.16	22.34	1.02	0.63	TM
HNHFFL		28.77	4.26	2.02	23.74	2.42	1.49	DN
JLQCSX		26.96	2.45	1.16	23.43	2.12	1.31	TM
K2ZD96		22.95	-1.56	-0.74	20.75	-0.56	-0.34	TO
L41XML	*	18.67	-5.84	-2.77	16.72	-4.59	-2.82	WZ
MMRUDR		26.26	1.75	0.83	22.41	1.10	0.68	TM
MSFURB		23.29	-1.22	-0.58	20.54	-0.78	-0.48	TM
MT1K4Y		24.31	-0.20	-0.09	21.93	0.62	0.38	TM
N1LEZZ		24.95	0.44	0.21	22.23	0.92	0.56	TO
N3H5NG		25.27	0.76	0.36	21.93	0.61	0.38	TM
Q8JBPH		25.50	0.99	0.47	21.06	-0.25	-0.15	TO
QXUAFY		24.71	0.20	0.10	21.80	0.49	0.30	CE
V28V3Y		26.74	2.23	1.06	22.95	1.64	1.01	CE
X7A84Q		22.26	-2.25	-1.07	18.94	-2.37	-1.46	CE
XSD64Z		23.48	-1.03	-0.49	21.24	-0.07	-0.04	TO
Y8GFHV		20.30	-4.21	-2.00	17.67	-3.64	-2.24	TM
Z1QQ79		26.33	1.82	0.87	21.41	0.09	0.06	TM

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

Summary Statistics**Grand Means**24.510 kJ/m²21.312 kJ/m²**Std Dev Btwn Labs**2.108 kJ/m²1.625 kJ/m²**Statistics based on 31 of 31 reporting participants****Sample M51: ABS & Sample M52: ABS****Instrument Code List as Reported by the Labs**

(BA) - Baldwin

(CE) - Ceast

(DN) - Dynisco

(KF) - Karl Frank GmbH

(SA) - Satec

(TM) - TMI

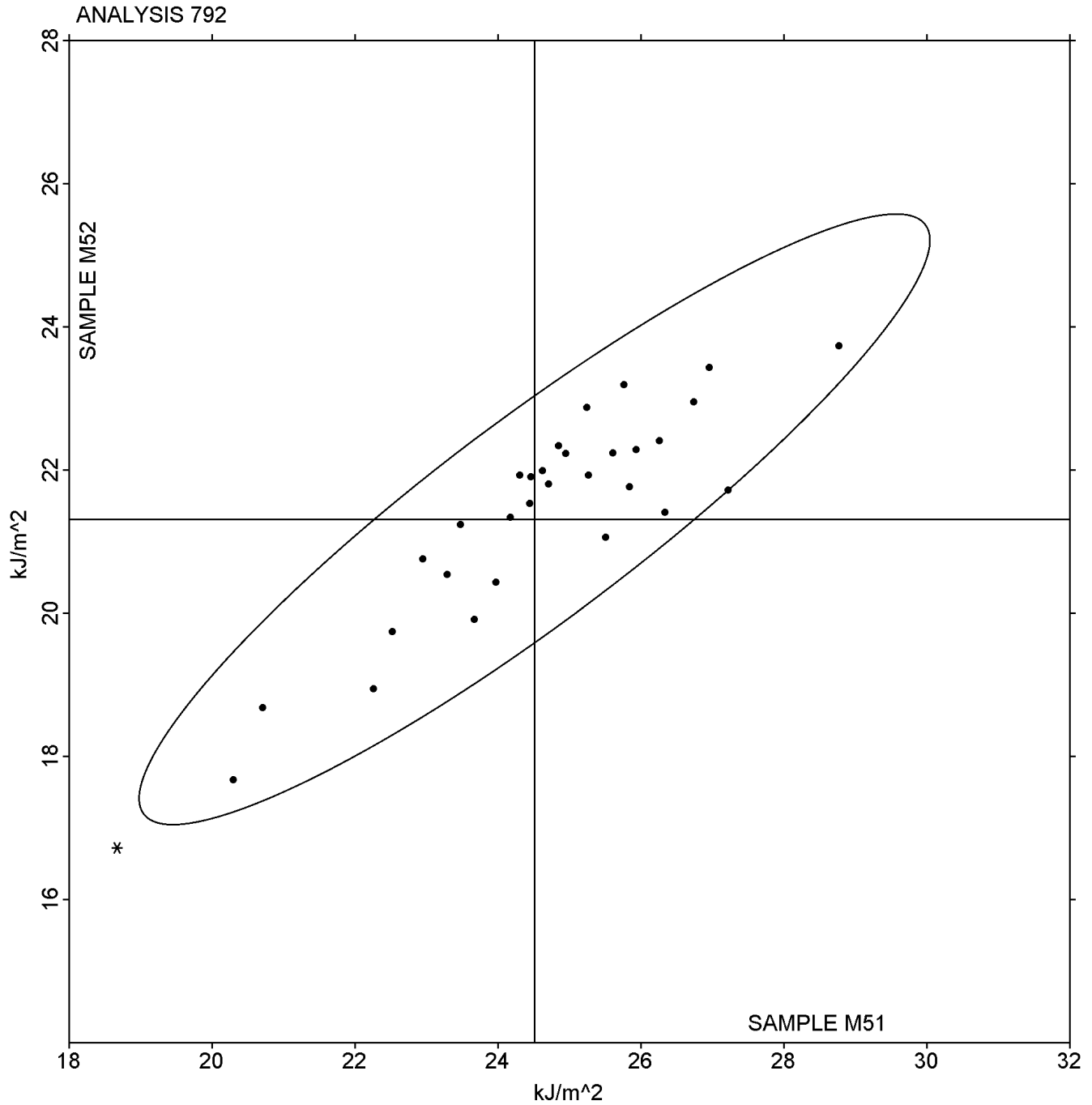
(TO) - Tinius Olsen

(TY) - Toyoseiki

(WZ) - Zwick

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

Grand Mean Sample M51: 24.510 kJ/m² Grand Mean Sample M52: 21.312 kJ/m²



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

Plastics Interlaboratory Testing Program
Analysis 710

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

WebCode	Data Flag	Sample E51			Sample E52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2WAUMW		124.10	2.35	1.21	125.08	1.43	0.97	TO
2YUDH7		122.50	0.75	0.38	123.50	-0.15	-0.10	TO
3PQ21P		123.95	2.20	1.13	126.20	2.55	1.73	AT
3ZLCYE		121.45	-0.30	-0.16	123.80	0.15	0.10	XX
5X9NXS	X	128.78	7.02	3.61	130.33	6.68	4.53	TO
625FZL		121.48	-0.28	-0.14	123.28	-0.37	-0.25	AT
6ZD281		122.03	0.27	0.14	122.40	-1.25	-0.85	TO
7A1E7T		119.38	-2.38	-1.22	123.58	-0.07	-0.05	RR
7A4USL		122.28	0.52	0.27	123.78	0.13	0.09	TO
9C39B5		118.73	-3.03	-1.56	121.83	-1.82	-1.24	CE
9EG734		121.83	0.07	0.04	124.23	0.58	0.39	AT
ASWWX1		119.33	-2.43	-1.25	120.78	-2.87	-1.95	CE
AT41NL		118.78	-2.98	-1.53	121.33	-2.32	-1.57	XX
BAP2ZX		126.50	4.75	2.44	126.93	3.28	2.23	AT
BJTRB8		122.25	0.50	0.25	124.73	1.08	0.73	AT
BV5Z6C		122.25	0.50	0.25	124.05	0.40	0.27	TO
C2EERP		119.45	-2.30	-1.18	122.53	-1.12	-0.76	TY
D3RYA8	X	121.05	-0.70	-0.36	120.38	-3.27	-2.22	TO
DTWKUM		119.80	-1.95	-1.00	121.90	-1.75	-1.18	CE
EEVXLQ		122.38	0.62	0.32	123.25	-0.40	-0.27	CE
FNEULK	*	116.75	-5.00	-2.57	121.00	-2.65	-1.80	XA
GAA7HG		122.00	0.25	0.13	124.13	0.48	0.33	DN
GJG8K4		123.08	1.32	0.68	124.08	0.43	0.29	TO
J6LW36		120.93	-0.83	-0.43	123.45	-0.20	-0.13	CE
JF6KZ7		122.88	1.12	0.58	124.20	0.55	0.38	CS
JG6FTM		122.63	0.87	0.45	124.25	0.60	0.41	AT
JRZNPY		126.10	4.35	2.23	126.75	3.10	2.11	DN
KYTYNN		121.90	0.15	0.07	123.58	-0.07	-0.05	CE
L3LRY2		123.98	2.22	1.14	125.03	1.38	0.94	CE
M25PSU		123.40	1.65	0.85	125.33	1.68	1.14	XX
MH2DAQ		120.15	-1.60	-0.82	122.60	-1.05	-0.71	CE
P4QSNV		121.83	0.07	0.04	123.45	-0.20	-0.13	AT

Plastics Interlaboratory Testing Program
Analysis 710

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

WebCode	Data Flag	Sample E51			Sample E52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
PSEK97		122.03	0.27	0.14	125.08	1.43	0.97	EM
QC3DJU		120.60	-1.15	-0.59	122.35	-1.30	-0.88	TO
QJGWFE		123.63	1.87	0.96	124.08	0.43	0.29	TO
QP3H9V		121.50	-0.25	-0.13	122.53	-1.12	-0.76	XX
RMHAVW		120.98	-0.78	-0.40	121.33	-2.32	-1.57	CE
S4M1TE	X	104.63	-17.13	-8.81	112.75	-10.90	-7.39	TO
TZX52F		121.93	0.17	0.09	123.85	0.20	0.14	AT
U6SL22		120.60	-1.15	-0.59	123.25	-0.40	-0.27	XX
UGXDP4		121.08	-0.68	-0.35	123.13	-0.52	-0.35	TO
VH5NYT		120.08	-1.68	-0.86	124.25	0.60	0.41	EM
VWQYXZ		119.75	-2.00	-1.03	120.98	-2.67	-1.81	TO
WDQEEK		125.33	3.57	1.84	125.65	2.00	1.36	XX
WHJFJQ		119.68	-2.08	-1.07	121.98	-1.67	-1.13	CE
XNQ8DL		121.73	-0.03	-0.01	124.40	0.75	0.51	CS
XSB8TP		123.20	1.45	0.74	124.80	1.15	0.78	TO
Y26JG1		124.48	2.72	1.40	125.33	1.68	1.14	XA
Y9NUXP		122.78	1.02	0.52	125.35	1.70	1.16	DN
YCHF78		120.18	-1.58	-0.81	122.63	-1.02	-0.69	AT
YKXVP5		120.68	-1.08	-0.55	123.10	-0.55	-0.37	CE

Summary Statistics

Grand Means

121.754 Degrees C

123.645 Degrees C

Std Dev Btwn Labs

1.945 Degrees C

1.474 Degrees C

Statistics based on 48 of 51 reporting participants

Sample E51: PC & Sample E52: PC

Comments on assigned Data Flags for Test #710

5X9NXS (X) - High data for all samples.

D3RYA8 (X) - Inconsistent in testing between samples.

S4M1TE (X) - Low data for all samples. Also inconsistent in testing within both samples.

Plastics Interlaboratory Testing Program
Analysis 710

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

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CS) - CSI

(EM) - Empire-Vortex

(TO) - Tinius Olsen

(XA) - Special In-House Instrument

(CE) - Ceast

(DN) - DYNISCO

(RR) - Ray-Ran

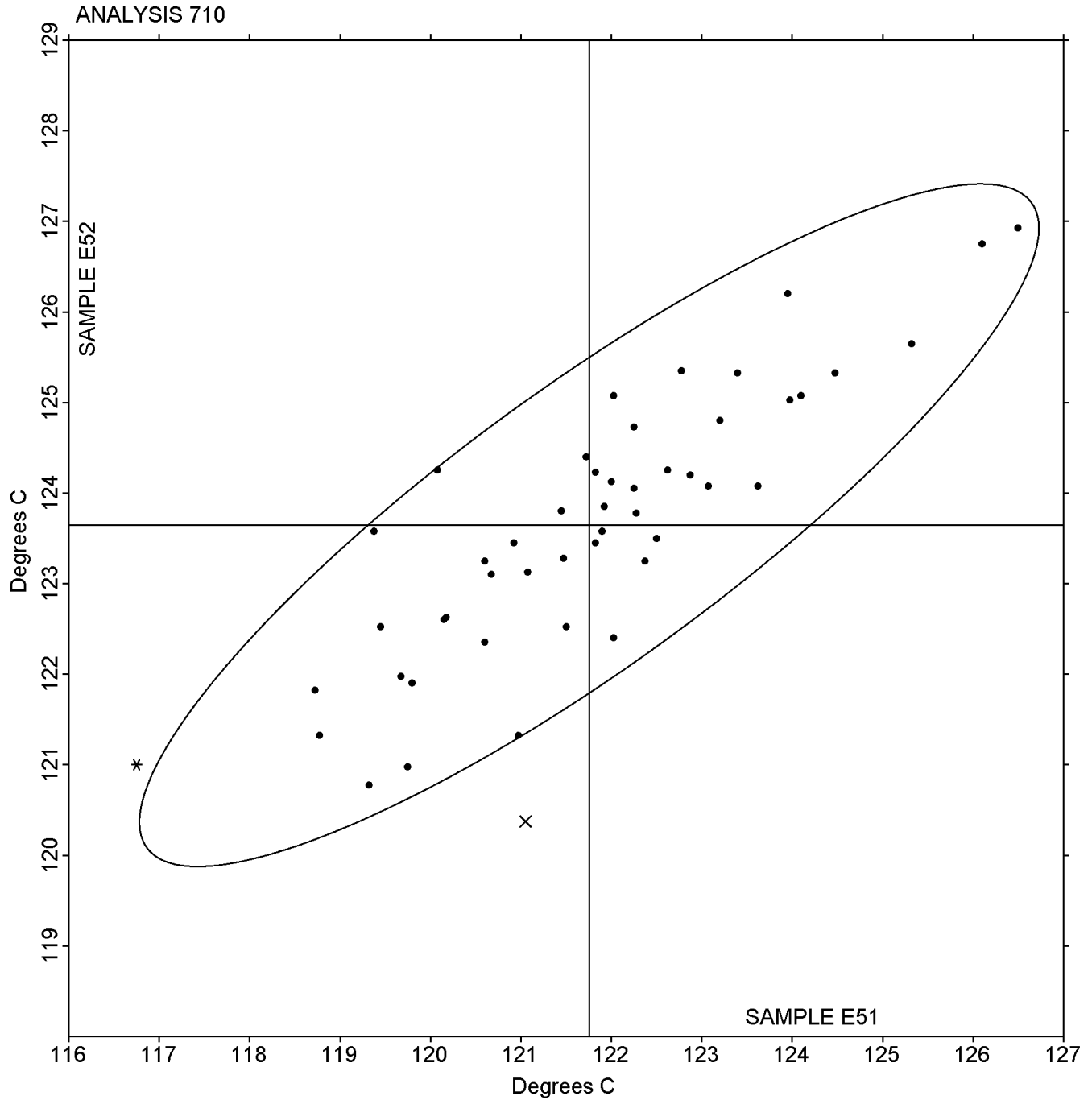
(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

Analysis 710

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

Grand Mean Sample E51: 121.75 Degrees C Grand Mean Sample E52: 123.65 Degrees C



Plastics Interlaboratory Testing Program
Analysis 711

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

WebCode	Data Flag	Sample G51			Sample G52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1ZJCRJ		87.0	1.5	0.52	117.4	2.7	0.87	AT
3KKPKY		83.3	-2.2	-0.78	113.3	-1.4	-0.46	CE
433VPS		83.3	-2.2	-0.77	114.5	-0.2	-0.07	EM
4T378F		91.6	6.1	2.15	117.6	2.8	0.93	TO
5KQTYQ		82.5	-3.0	-1.07	115.0	0.3	0.09	AT
6HPJX8		88.7	3.2	1.13	112.4	-2.3	-0.74	TO
8NE48J		85.9	0.4	0.14	110.0	-4.7	-1.54	TO
9LWZW4		89.7	4.2	1.47	117.7	3.0	0.97	XX
AAFG1X		83.4	-2.1	-0.73	113.8	-0.9	-0.29	AT
AX4TP6		90.8	5.3	1.87	117.5	2.8	0.91	CE
BX7Z3S		87.0	1.5	0.52	117.2	2.5	0.81	AT
CBFCEY		84.2	-1.3	-0.45	114.1	-0.6	-0.20	CE
D5XBWF		84.2	-1.3	-0.46	113.7	-1.0	-0.34	TO
HZ3SCK		84.9	-0.6	-0.23	117.0	2.2	0.73	TO
JTQSG6		82.4	-3.1	-1.08	113.0	-1.7	-0.55	TO
KRXLQ1		81.8	-3.7	-1.30	107.6	-7.1	-2.31	TO
LZWBD6		87.1	1.6	0.56	118.0	3.3	1.07	EM
NEFCV6	X	67.5	-18.0	-6.37	94.2	-20.5	-6.66	RR
NT31Z2		82.1	-3.4	-1.19	112.5	-2.2	-0.73	TO
S626WV		82.9	-2.6	-0.93	112.6	-2.1	-0.68	TO
TH5B3V		84.2	-1.3	-0.46	109.4	-5.3	-1.73	EM
TS3HCV		83.7	-1.8	-0.62	115.8	1.1	0.35	CE
WME7SM		88.5	3.0	1.05	117.5	2.7	0.89	CS
X3MG7A		88.3	2.8	0.98	114.9	0.1	0.05	XX
YLHD51		83.9	-1.6	-0.56	114.4	-0.4	-0.12	CE
Z7FQJ3		86.2	0.7	0.26	121.1	6.4	2.09	TO

**Plastics Interlaboratory Testing Program
Analysis 711**

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

Summary Statistics

Grand Means

85.49 Degrees C

114.71 Degrees C

Std Dev Btwn Labs

2.83 Degrees C

3.07 Degrees C

Statistics based on 25 of 26 reporting participants

Sample G51: PP & Sample G52: PP

Comments on assigned Data Flags for Test #711

NEFCV6 (X) - Low data for all samples.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(EM) - Empire-Vortex

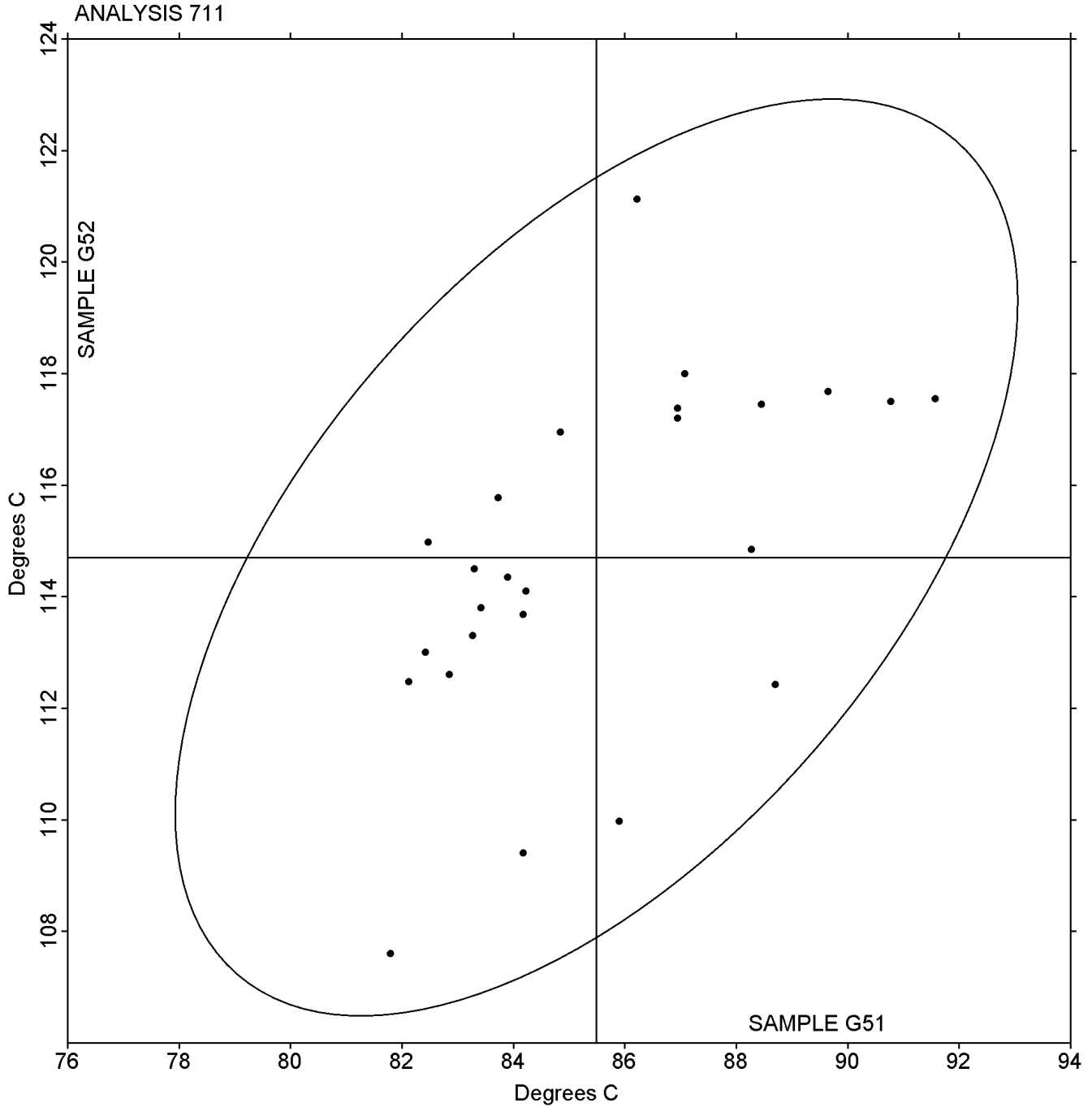
(RR) - Ray-Ran

(TO) - Tinius Olsen

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample G51: 85.490 Degrees C Grand Mean Sample G52: 114.71 Degrees C



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

Plastics Interlaboratory Testing Program
Analysis 712

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

WebCode	Data Flag	Sample N51			Sample N52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
13VZZU		80.08	0.35	0.37	79.33	0.26	0.24	AT
2WCGDS		80.60	0.87	0.92	81.15	2.08	1.90	EM
49X3Z5		80.73	1.00	1.05	80.63	1.56	1.42	AT
53N5LM		77.90	-1.83	-1.92	77.75	-1.32	-1.20	AT
62NZRR		77.65	-2.08	-2.18	77.23	-1.84	-1.68	TO
6LQ238		80.78	1.05	1.10	78.95	-0.12	-0.11	CE
7M23TY		79.03	-0.70	-0.74	78.55	-0.52	-0.47	TO
8G11NP		78.73	-1.00	-1.05	77.88	-1.19	-1.09	AT
8XUF74		78.55	-1.18	-1.24	78.18	-0.89	-0.81	TO
A1EHG9		79.38	-0.35	-0.37	78.73	-0.34	-0.31	XX
A254AE		80.10	0.37	0.39	78.80	-0.27	-0.24	CE
A56TFY		79.78	0.05	0.05	77.33	-1.74	-1.59	CS
ADFFJ4U		81.25	1.52	1.60	80.60	1.53	1.40	XX
B8CTMJ		79.53	-0.20	-0.21	79.18	0.11	0.10	AT
BSYQLY		78.43	-1.30	-1.37	78.48	-0.59	-0.54	AT
C27WMB		80.95	1.22	1.28	80.65	1.58	1.45	EM
CTKUJB		80.83	1.10	1.15	81.10	2.03	1.86	TO
ELT9JM		80.98	1.25	1.31	79.90	0.83	0.76	AT
GPP9LA		79.60	-0.13	-0.13	78.40	-0.67	-0.61	AT
GRS8KS		79.78	0.05	0.05	79.08	0.01	0.01	CE
HAB93R		79.88	0.15	0.16	79.88	0.81	0.74	AT
HH7UY1		80.35	0.62	0.65	79.58	0.51	0.47	EM
KHLYN5		80.18	0.45	0.47	78.85	-0.22	-0.20	XX
LHX56F		79.43	-0.30	-0.32	79.13	0.06	0.05	TY
M39H3C		78.88	-0.85	-0.89	78.55	-0.52	-0.47	AT
P9N2AY		80.90	1.17	1.23	79.25	0.18	0.17	AT
PRQCVM	X	69.70	-10.03	-10.53	69.50	-9.57	-8.73	XX
TC1H6Q		79.80	0.07	0.08	78.78	-0.29	-0.26	CE
VAHTTX		79.08	-0.65	-0.68	77.45	-1.62	-1.47	DN
WFBYCU		78.50	-1.23	-1.29	77.83	-1.24	-1.13	CE
ZEG4RN		79.63	-0.10	-0.11	80.58	1.51	1.38	CE
ZLKU5S		80.33	0.60	0.63	79.33	0.26	0.24	TO

Plastics Interlaboratory Testing Program
Analysis 712

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

Summary Statistics

Grand Means

79.727 Degrees C

79.065 Degrees C

Std Dev Btwn Labs

0.952 Degrees C

1.096 Degrees C

Statistics based on 31 of 32 reporting participants

Sample N51: ABS & Sample N52: ABS

Comments on assigned Data Flags for Test #712

PROQVM (X) - Low data for all samples.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(DN) - DYNISCO

(EM) - Empire-Vortex

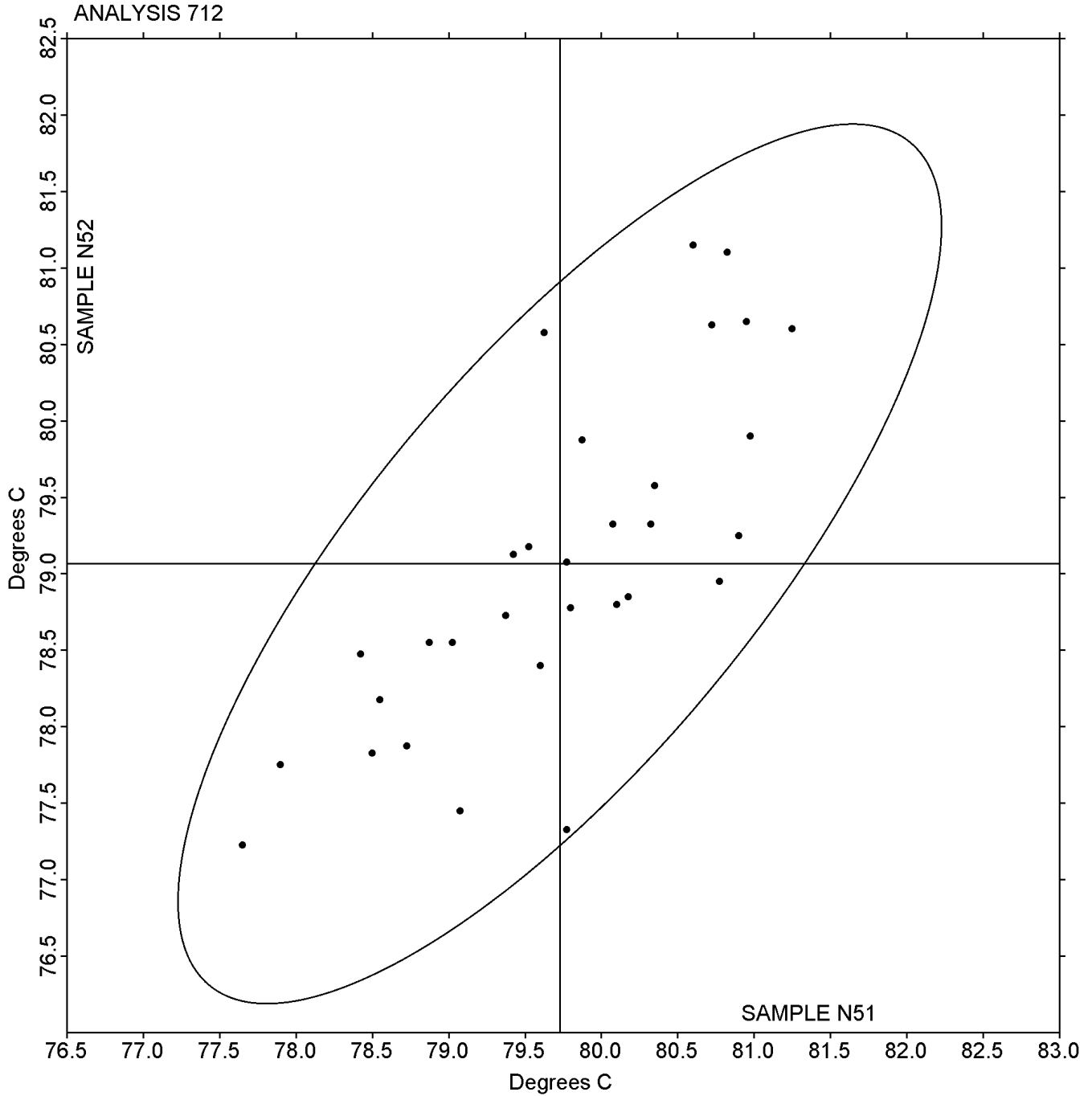
(TO) - Tinius Olsen

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample N51: 79.727 Degrees C Grand Mean Sample N52: 79.065 Degrees C



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

Plastics Interlaboratory Testing Program

Analysis 715

Vicat Softening Temperature (Rate A)

WebCode	Data Flag	Sample H51			Sample H52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2R6R4L		107.48	2.39	2.04	107.48	2.49	2.02	EM
3XT6UG		104.92	-0.18	-0.15	104.83	-0.16	-0.13	EM
7NYH5A		105.10	0.01	0.01	104.73	-0.26	-0.21	DN
829ZE6		104.40	-0.69	-0.59	104.25	-0.75	-0.61	TO
BTEXZT		103.95	-1.14	-0.98	103.95	-1.05	-0.85	AT
BZA1QV		105.68	0.59	0.51	105.60	0.60	0.49	CE
CCZLYC		104.57	-0.53	-0.45	104.52	-0.48	-0.39	CE
CLU814		103.43	-1.66	-1.42	103.30	-1.70	-1.38	AT
EQ4JAX		105.22	0.12	0.11	105.15	0.15	0.12	RR
G738QV		105.48	0.39	0.33	105.57	0.57	0.46	TO
H2VWP2		106.95	1.86	1.59	106.65	1.65	1.34	CE
HKVU3Z		104.58	-0.51	-0.43	104.58	-0.41	-0.34	AT
JBR1VP		106.47	1.37	1.17	106.83	1.84	1.49	TO
JXPKTU		105.48	0.39	0.33	105.55	0.55	0.45	CE
KPWBVB		105.05	-0.04	-0.04	104.98	-0.01	-0.01	AT
LQ2D4N		103.53	-1.56	-1.33	103.20	-1.80	-1.46	XX
NEGBVA		104.25	-0.84	-0.72	104.07	-0.93	-0.76	RO
PA1SDN		105.15	0.06	0.05	104.85	-0.15	-0.12	CE
R98MNE	*	105.85	0.76	0.65	106.40	1.40	1.14	TO
RCPPC8		105.03	-0.06	-0.05	104.97	-0.03	-0.02	AT
RXKCMT		104.38	-0.71	-0.61	104.05	-0.95	-0.77	TO
SAV479		104.67	-0.43	-0.36	104.60	-0.40	-0.32	XX
VCYW1D		105.28	0.19	0.16	105.27	0.27	0.22	XX
VNT4MU		107.42	2.32	1.99	107.08	2.09	1.70	CE
VPCSE8		104.45	-0.64	-0.55	104.33	-0.66	-0.54	XX
WBZ131		106.90	1.81	1.54	106.82	1.82	1.48	EM
Y1G63R		102.67	-2.43	-2.07	102.75	-2.25	-1.83	CE
ZCZQXG		104.23	-0.86	-0.73	103.55	-1.45	-1.18	TO

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

Summary Statistics	
Grand Means	
105.092 Degrees C	104.997 Degrees C
Std Dev Btwn Labs	
1.170 Degrees C	1.229 Degrees C
Statistics based on 28 of 28 reporting participants	

Sample H51: ABS & Sample H52: ABS

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(DN) - DYNISCO

(EM) - Empire-Vortex

(RO) - Rosand

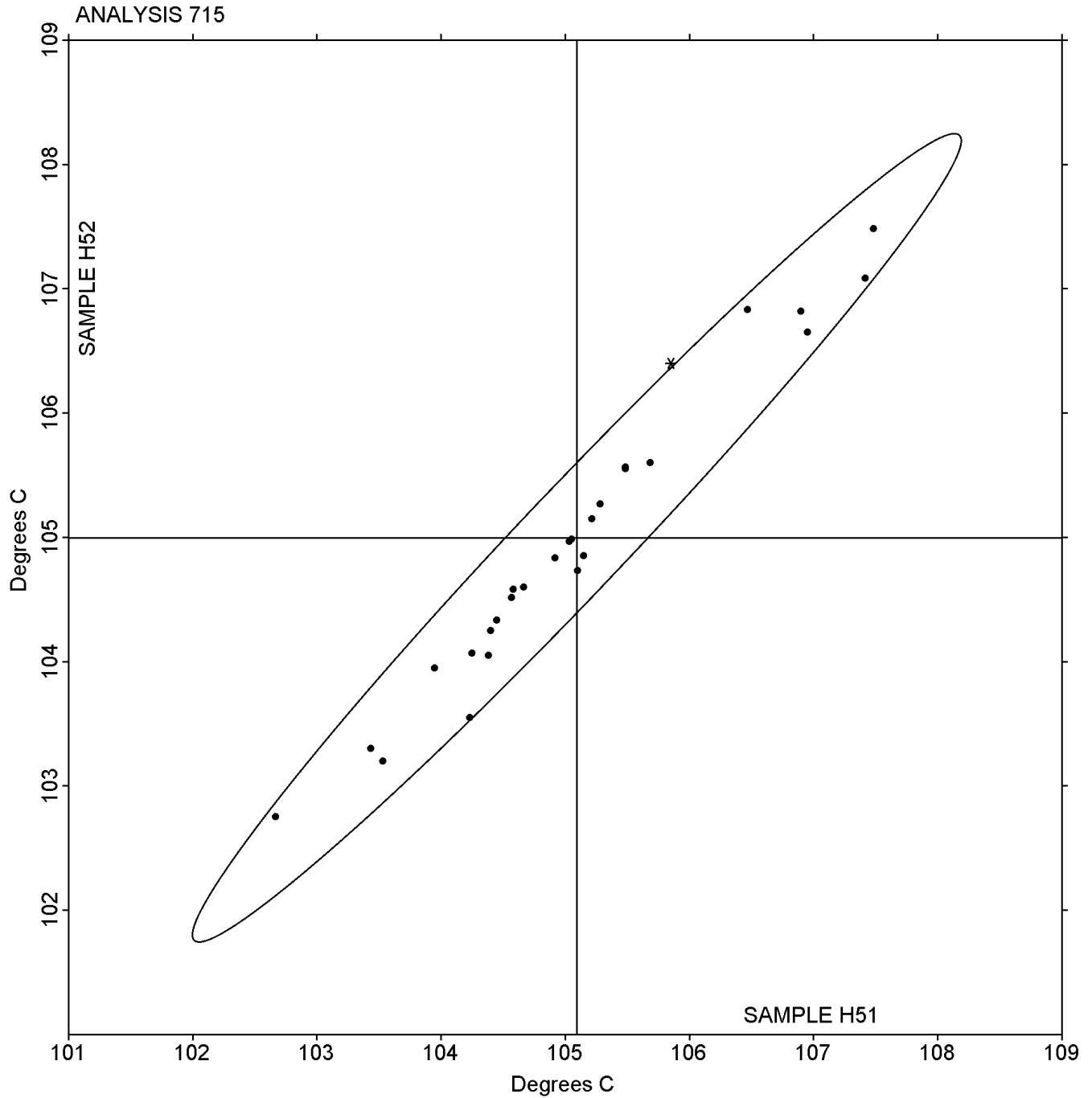
(RR) - Ray-Ran

(TO) - Tinius Olsen

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample H51: 105.09 Degrees C Grand Mean Sample H52: 105.00 Degrees C



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

Plastics Interlaboratory Testing Program

Analysis 716

Vicat Softening Temperature (Rate B)

WebCode	Data Flag	Sample R51			Sample R52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2KH6YK		110.42	3.66	2.35	110.33	3.69	2.43	EM
2XUE3C		106.08	-0.68	-0.44	106.17	-0.48	-0.31	TO
4KVVW1G		105.88	-0.88	-0.56	105.28	-1.36	-0.90	TO
5FG2VP		105.73	-1.03	-0.66	105.52	-1.13	-0.74	RO
67PFRG		107.10	0.34	0.22	107.28	0.64	0.42	EM
7NKFLQ		107.20	0.44	0.28	107.13	0.49	0.32	AT
85S7PY		107.13	0.37	0.24	107.23	0.59	0.39	TO
AY8X5E		104.08	-2.68	-1.72	104.12	-2.53	-1.67	CE
BV3UQX		107.43	0.67	0.43	107.17	0.52	0.35	DN
D17XMV		107.80	1.04	0.67	107.55	0.91	0.60	TO
EEG2CW		107.17	0.41	0.26	107.10	0.46	0.30	CE
ELMSSU		105.08	-1.68	-1.08	104.70	-1.94	-1.28	XX
EZJZL4		104.98	-1.78	-1.14	105.10	-1.54	-1.02	AT
FQH719		106.15	-0.61	-0.39	106.25	-0.39	-0.26	CE
GTCK4X	*	104.98	-1.78	-1.14	105.77	-0.88	-0.58	CE
HRZAHU		107.05	0.29	0.19	106.72	0.07	0.05	AT
HYRD98		106.85	0.09	0.06	107.00	0.36	0.24	TO
JAN5TE		108.77	2.01	1.29	108.50	1.86	1.22	EM
JETZ15		105.28	-1.48	-0.95	105.18	-1.46	-0.96	AT
LBSYHP		108.50	1.74	1.12	108.35	1.71	1.13	CE
M2FMTV		108.62	1.86	1.19	107.83	1.19	0.79	TY
PJEHB1		109.08	2.32	1.49	109.00	2.36	1.55	CE
TIC88V		105.33	-1.43	-0.92	105.03	-1.61	-1.06	TO
XYC4RX		107.30	0.54	0.35	107.12	0.47	0.31	XX
YDHEJH		105.02	-1.74	-1.12	104.63	-2.01	-1.33	TO

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

Summary Statistics**Grand Means**

106.761 Degrees C

106.643 Degrees C

Std Dev Btwn Labs

1.555 Degrees C

1.516 Degrees C

Statistics based on 25 of 25 reporting participants

Sample R51: ABS & Sample R52: ABS

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(DN) - DYNISCO

(EM) - Empire-Vortex

(RO) - Rosand

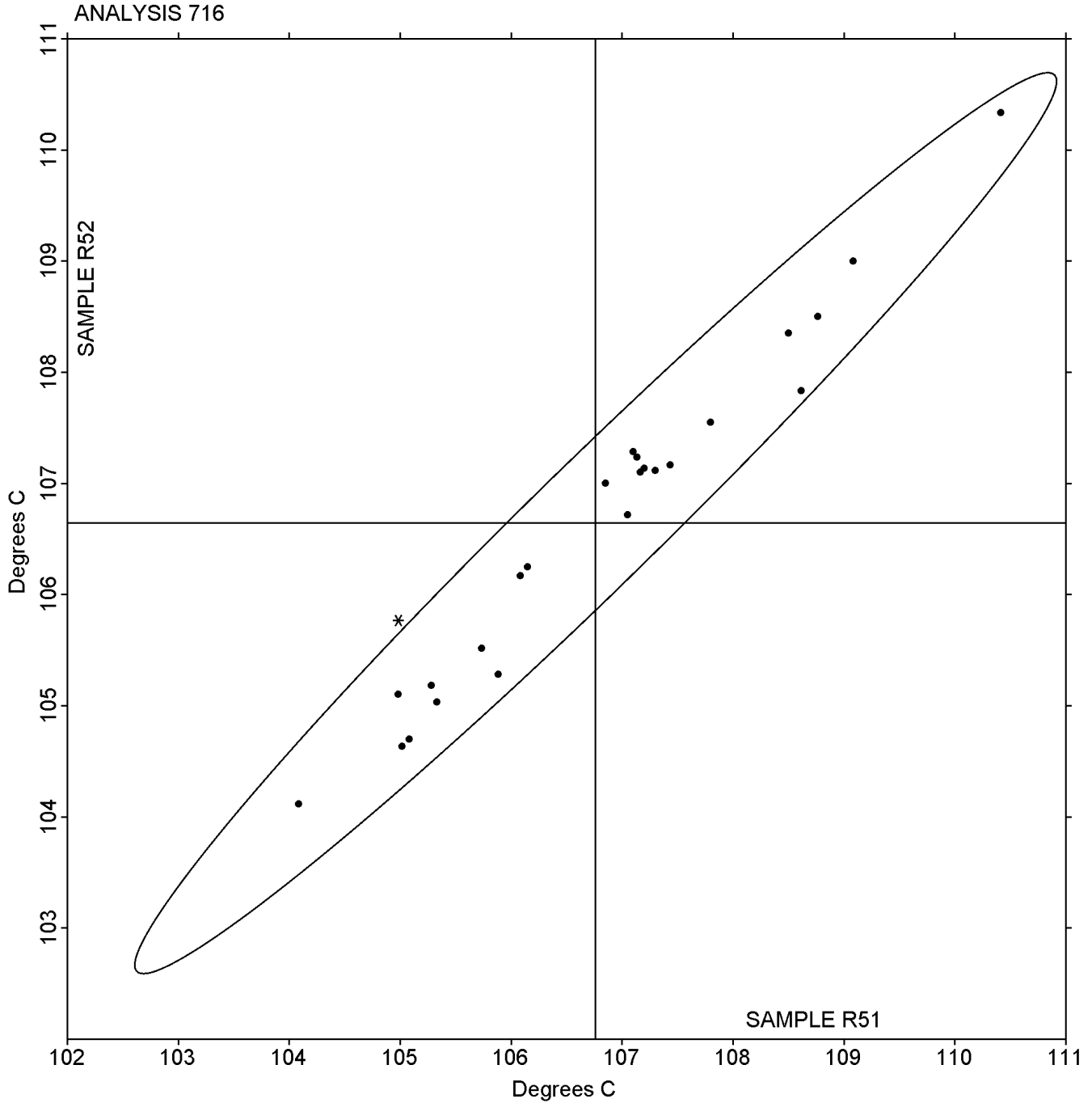
(TO) - Tinius Olsen

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample R51: 106.76 Degrees C Grand Mean Sample R52: 106.64 Degrees C



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

Plastics Interlaboratory Testing Program
Analysis 750

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

WebCode	Data Flag	Sample X51			Sample X52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1825FD		6.90	-0.28	-1.15	6.95	-0.23	-0.95	DY
193UZS		7.10	-0.08	-0.33	7.20	0.02	0.07	CE
1WF2M8		7.21	0.03	0.12	7.19	0.01	0.03	TO
2268XR		7.06	-0.12	-0.48	6.96	-0.22	-0.90	DY
26EAH3		7.09	-0.09	-0.37	7.20	0.02	0.07	TO
2CFLPR		7.45	0.27	1.10	7.50	0.32	1.31	XX
2E11SH		7.15	-0.03	-0.12	7.21	0.02	0.09	TO
2SP6TG		6.70	-0.48	-1.96	6.65	-0.53	-2.19	WZ
3LEWRR		7.45	0.27	1.10	7.40	0.22	0.90	CE
3QR4EE		7.00	-0.18	-0.74	6.95	-0.23	-0.95	GO
5E4DHP		7.40	0.22	0.90	7.30	0.12	0.49	KA
5H4ASQ		7.45	0.27	1.10	7.40	0.22	0.90	TO
5HDD8X		7.22	0.04	0.15	7.17	-0.02	-0.07	DA
5N4PCK		7.00	-0.18	-0.74	7.00	-0.18	-0.75	TO
5P23P1		7.00	-0.18	-0.74	6.90	-0.28	-1.16	TO
5RG3J9		7.20	0.01	0.06	7.24	0.06	0.24	XX
5U72A8	X	7.86	0.68	2.77	7.45	0.27	1.11	TO
627BG1		7.20	0.02	0.08	7.50	0.32	1.31	DY
6K821R		7.10	-0.08	-0.33	7.10	-0.08	-0.34	TO
6PZW81		7.50	0.32	1.31	7.15	-0.03	-0.13	TO
6ZKRSC		7.15	-0.03	-0.12	7.25	0.07	0.28	TO
77CVV9		7.01	-0.18	-0.72	7.07	-0.11	-0.46	HA
77HG41		7.01	-0.18	-0.72	7.03	-0.15	-0.63	TO
77S8EJ		7.25	0.07	0.29	7.30	0.12	0.49	TO
82NPBS		7.65	0.47	1.92	7.75	0.57	2.34	TO
83X68Y		6.95	-0.23	-0.94	7.05	-0.13	-0.54	TO
8VCR36		7.30	0.12	0.49	7.35	0.17	0.69	TO
8Y5ZUX		7.10	-0.08	-0.33	7.10	-0.08	-0.34	KA
97RVH1	*	6.48	-0.71	-2.88	6.60	-0.59	-2.42	KA
9ETJ6Q		7.45	0.27	1.10	7.40	0.22	0.90	TO
9K5WE1		7.05	-0.13	-0.53	7.30	0.12	0.49	XX
9PCKGG		7.08	-0.11	-0.43	7.15	-0.04	-0.15	TO

Plastics Interlaboratory Testing Program
Analysis 750

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

WebCode	Data Flag	Sample X51			Sample X52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
9WPVHX		7.15	-0.03	-0.12	6.95	-0.23	-0.95	KA
BUQBKL		7.55	0.37	1.51	7.60	0.42	1.72	CS
CFFGNL		7.30	0.12	0.49	7.20	0.02	0.07	TO
CH68HF		7.15	-0.03	-0.12	7.00	-0.18	-0.75	TO
D7KYCV		7.50	0.32	1.31	7.35	0.17	0.69	TO
D87NBN		6.97	-0.22	-0.88	6.99	-0.20	-0.81	KA
DMYNS8		7.03	-0.15	-0.61	7.14	-0.05	-0.19	TO
E3HA7N		7.54	0.36	1.47	7.50	0.32	1.31	TO
F6UAPT		7.10	-0.08	-0.33	6.90	-0.28	-1.16	TO
FJF6TT		7.35	0.17	0.69	7.00	-0.18	-0.75	XX
FP2YUE		7.10	-0.08	-0.33	7.05	-0.13	-0.54	TO
FPSLGR		7.61	0.43	1.76	7.60	0.42	1.72	KA
FQLS6N		7.57	0.39	1.59	7.55	0.37	1.53	TO
FSCDS6		7.29	0.10	0.43	7.32	0.14	0.57	DY
FY2CEA		7.25	0.07	0.29	7.30	0.12	0.49	XX
GD9KXG	X	16.80	9.62	39.34	16.50	9.32	38.36	KA
GQMAPA		6.74	-0.44	-1.79	6.94	-0.24	-0.98	TO
GVH4VB		7.05	-0.13	-0.53	7.30	0.12	0.49	AT
H1535C		7.29	0.10	0.43	6.93	-0.26	-1.06	GO
H4VGJG		7.48	0.30	1.23	7.47	0.29	1.18	DY
H5CEAR		7.50	0.32	1.31	7.40	0.22	0.90	TO
HB8BWV		7.60	0.42	1.72	7.50	0.32	1.31	TO
HCR2CR		6.95	-0.23	-0.94	7.10	-0.08	-0.34	TO
HFKBWX		7.30	0.12	0.49	7.50	0.32	1.31	TY
HKBP9B		7.55	0.37	1.51	7.55	0.37	1.52	TO
J43N6S		7.20	0.02	0.08	7.25	0.07	0.28	TO
J8FFBV		7.20	0.02	0.06	7.37	0.19	0.77	TO
JBNNU3		7.29	0.10	0.43	7.01	-0.18	-0.73	TO
JFLX4Z		6.65	-0.53	-2.17	6.80	-0.38	-1.57	KA
K5NPNP		6.99	-0.19	-0.78	7.13	-0.06	-0.23	CE
KAA79L		7.45	0.27	1.10	7.10	-0.08	-0.34	TO
KD18XT		6.93	-0.25	-1.02	7.25	0.07	0.29	TO

Plastics Interlaboratory Testing Program
Analysis 750

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

WebCode	Data Flag	Sample X51			Sample X52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
KE78QN		7.15	-0.03	-0.12	7.30	0.12	0.49	TO
KMZ8Q3		7.10	-0.08	-0.33	7.00	-0.18	-0.75	TO
KTGBB7		6.90	-0.28	-1.15	6.70	-0.48	-1.98	GO
LGFVPD		7.10	-0.08	-0.33	7.20	0.02	0.07	TO
MDG1ZL		7.15	-0.03	-0.12	6.95	-0.23	-0.95	XX
MH2ASN		6.85	-0.33	-1.35	6.90	-0.28	-1.16	TO
MUTLSM		7.16	-0.02	-0.07	7.17	-0.01	-0.06	KA
N5T33J		7.10	-0.08	-0.33	6.95	-0.23	-0.95	TO
NJTUZS		7.20	0.02	0.08	7.40	0.22	0.90	KA
NYR8H1		7.47	0.29	1.20	7.54	0.36	1.47	TO
PV3456		7.10	-0.08	-0.33	6.90	-0.28	-1.16	TO
QDEAVS		7.05	-0.13	-0.53	7.21	0.02	0.09	CE
QDTRVK	X	5.70	-1.48	-6.05	6.45	-0.73	-3.01	TO
QTNC9C		7.22	0.04	0.16	7.32	0.13	0.55	KA
RASK3R		7.13	-0.05	-0.21	7.12	-0.06	-0.25	KA
RC2FVA		7.40	0.22	0.90	7.35	0.17	0.69	TO
RNYXM8		7.10	-0.08	-0.33	7.20	0.02	0.07	HA
RYXSPE		7.42	0.23	0.96	7.14	-0.05	-0.19	TO
S36ET7		7.25	0.07	0.29	7.25	0.07	0.28	TO
SVTCXY		6.75	-0.43	-1.76	7.00	-0.18	-0.75	TO
SZU5FV		7.22	0.04	0.16	6.91	-0.28	-1.14	TO
TAEET		7.25	0.07	0.29	7.05	-0.13	-0.54	TO
TDC5XN	X	6.95	-0.23	-0.94	6.40	-0.78	-3.22	TO
TPJENQ	X	6.22	-0.97	-3.95	7.28	0.10	0.40	TO
TSFR4N	*	7.60	0.42	1.72	7.80	0.62	2.54	TO
TZFFYT		7.07	-0.12	-0.47	7.17	-0.01	-0.05	TO
UN888Q		7.12	-0.07	-0.27	7.22	0.04	0.16	KA
V4FACW		7.50	0.32	1.31	7.60	0.42	1.72	TO
VCEJEF	X	6.10	-1.08	-4.42	6.55	-0.63	-2.60	CS
VV9RDU	X	20.85	13.67	55.90	19.20	12.02	49.47	AT
VWS8SV		7.40	0.22	0.90	7.40	0.22	0.90	TO

Plastics Interlaboratory Testing Program
Analysis 750

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

WebCode	Data Flag	Sample X51			Sample X52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
W3H5H6		7.30	0.12	0.49	6.95	-0.23	-0.95	TO
W9JLV4		7.00	-0.18	-0.74	7.00	-0.18	-0.75	TO
WAX43H	*	6.45	-0.73	-2.99	6.65	-0.53	-2.19	CE
WCCNM3		7.15	-0.03	-0.12	7.35	0.17	0.69	TO
WTL5ET		7.65	0.47	1.92	7.55	0.37	1.52	TO
XD7N5X		7.27	0.08	0.35	7.29	0.10	0.42	WZ
XD9S32	X	5.97	-1.22	-4.97	7.23	0.04	0.18	XA
XL4JU8		6.89	-0.30	-1.21	6.77	-0.42	-1.72	DY
XN8MVU		7.10	-0.08	-0.33	7.20	0.02	0.07	GO
Y3646A		7.15	-0.03	-0.12	7.25	0.07	0.28	XX
YS5FP3	X	6.30	-0.88	-3.60	6.35	-0.83	-3.42	HA
ZILSV5		6.95	-0.23	-0.94	7.00	-0.18	-0.75	TO
ZJ9H9H		6.95	-0.23	-0.94	6.95	-0.23	-0.95	TO

Summary Statistics

Grand Means

7.180 grams/10 mins

7.182 grams/10 mins

Std Dev Btwn Labs

0.245 grams/10 mins

0.243 grams/10 mins

Statistics based on 99 of 108 reporting participants

Sample X51: LDPE & Sample X52: LDPE

Comments on assigned Data Flags for Test #750

5U72A8 (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.

GD9KXG (X) - Extreme data.

QDTRVK (X) - Low data for all samples. Also inconsistent in testing within Sample X52.

TDC5XN (X) - Inconsistent in testing between samples, data for Sample X52 are low.

TPJENQ (X) - Inconsistent in testing between samples, data for Sample X51 are low.

VCEJEF (X) - Inconsistent in testing between samples, data for Sample X51 are low.

VV9RDU (X) - Extreme data.

XD9S32 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample X51.

YS5FP3 (X) - Low data for all samples. Possible Systematic Error.

Plastics Interlaboratory Testing Program
Analysis 750

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

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CS) - CSI

(DY) - Dynisco

(HA) - Haake

(TO) - Tinius Olsen

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

(CE) - Ceast

(DA) - Davenport

(GO) - Gottfert

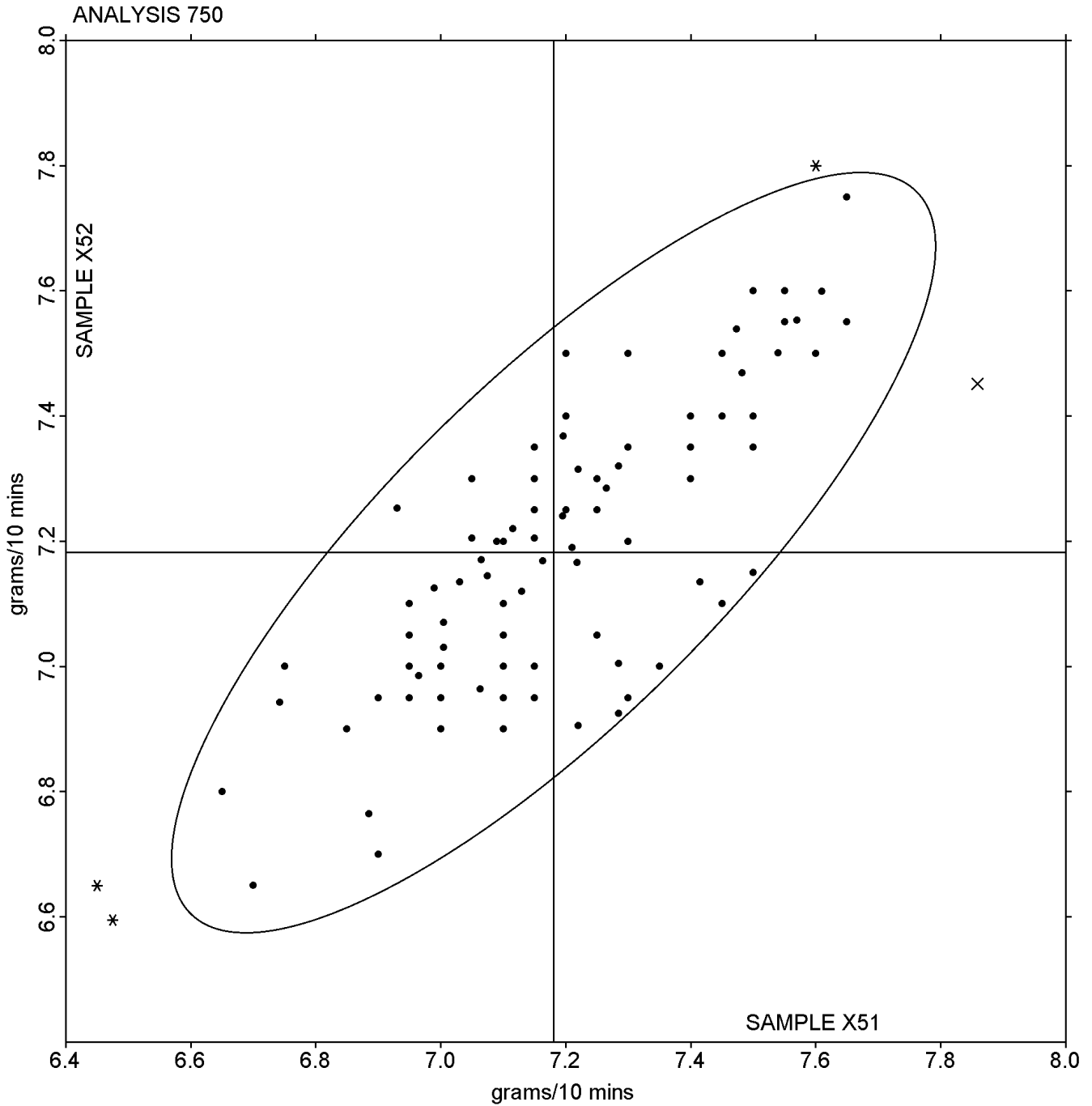
(KA) - Kayeness

(TY) - Toyoseiki Seisakusho

(XA) - Special In-House Instrument

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

Grand Mean Sample X51: 7.1803 grams/10 mins Grand Mean Sample X52: 7.1819 grams/10 mins



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

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

WebCode	Data Flag	Sample T51			Sample T52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1RT62N		1.04200	-0.00249	-1.30	1.04367	-0.00274	-1.44	XX
1RY2NJ		1.04570	0.00121	0.63	1.04700	0.00060	0.31	XX
1VZNSE		1.04608	0.00158	0.83	1.04779	0.00138	0.73	XX
2HD4ZN		1.04640	0.00191	1.00	1.04813	0.00173	0.91	XX
2V4WJJ		1.04180	-0.00269	-1.41	1.04370	-0.00270	-1.43	XX
3JEX79		1.04617	0.00167	0.87	1.04783	0.00143	0.75	XX
3R6N3K	X	1.01267	-0.03183	-16.61	1.00963	-0.03677	-19.41	XX
3RCR3Z		1.04297	-0.00153	-0.80	1.04500	-0.00140	-0.74	XX
3RGL6K		1.04617	0.00167	0.87	1.04803	0.00163	0.86	XX
438YWN		1.04320	-0.00129	-0.67	1.04487	-0.00154	-0.81	XX
4H8P2Q		1.04470	0.00021	0.11	1.04690	0.00050	0.26	XX
4PD3SP		1.04560	0.00111	0.58	1.04667	0.00026	0.14	XX
4Z8BE1	X	1.03510	-0.00939	-4.90	1.03800	-0.00840	-4.44	XX
5PXFEH		1.04483	0.00034	0.18	1.04660	0.00020	0.10	XX
64FCHE		1.04570	0.00121	0.63	1.04760	0.00120	0.63	XX
6MP7S1		1.04430	-0.00019	-0.10	1.04600	-0.00040	-0.21	XX
79HC9P		1.04680	0.00231	1.20	1.04853	0.00213	1.12	XX
7SCQDN		1.04690	0.00241	1.26	1.04843	0.00203	1.07	XX
7TDW9F	*	1.04127	-0.00323	-1.68	1.04507	-0.00134	-0.71	XX
8A3MJN		1.04580	0.00131	0.68	1.04687	0.00046	0.24	XX
8C73AL	X	1.01493	-0.02956	-15.43	1.01673	-0.02967	-15.66	XX
8PLL4Z		1.04717	0.00267	1.40	1.04933	0.00293	1.55	XX
8QU5Y7	X	1.44737	0.40287	210.28	1.49613	0.44973	237.40	XX
93NA3G		1.04500	0.00051	0.26	1.04633	-0.00007	-0.04	XX
9GQ6EB	*	1.04247	-0.00203	-1.06	1.04247	-0.00394	-2.08	XX
9VNZMP		1.04413	-0.00036	-0.19	1.04570	-0.00070	-0.37	XX
9W5DHL		1.04660	0.00211	1.10	1.04817	0.00176	0.93	XX
9Y5RN4		1.04283	-0.00166	-0.87	1.04597	-0.00044	-0.23	XX
9Z28SB		1.04120	-0.00329	-1.72	1.04357	-0.00284	-1.50	XX
A4AQQA		1.04273	-0.00176	-0.92	1.04510	-0.00130	-0.69	XX
B746H1		1.04043	-0.00406	-2.12	1.04340	-0.00300	-1.59	XX
BJ7SW2		1.04673	0.00224	1.17	1.04857	0.00216	1.14	XX

Analysis 718

Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T51			Sample T52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
BT4WLP		1.04707	0.00257	1.34	1.04773	0.00133	0.70	XX
BXB3NB		1.04483	0.00034	0.18	1.04583	-0.00057	-0.30	XX
C2LECA		1.04633	0.00184	0.96	1.04967	0.00326	1.72	XX
C3VHKW		1.04647	0.00197	1.03	1.04770	0.00130	0.68	XX
CFGJAH	*	1.04150	-0.00299	-1.56	1.04533	-0.00107	-0.56	XX
CK57DP		1.04333	-0.00116	-0.61	1.04467	-0.00174	-0.92	XX
CXKNRP		1.04713	0.00264	1.38	1.04830	0.00190	1.00	XX
DBNRYU		1.04267	-0.00183	-0.95	1.04300	-0.00340	-1.80	XX
DRU4XU		1.04590	0.00141	0.73	1.04683	0.00043	0.23	XX
DXE55N		1.04667	0.00217	1.13	1.04800	0.00160	0.84	XX
ENW4QK		1.04587	0.00137	0.72	1.04707	0.00066	0.35	XX
ENYDXN		1.04153	-0.00296	-1.54	1.04440	-0.00200	-1.06	XX
FLNUC5		1.04500	0.00051	0.26	1.04800	0.00160	0.84	XX
FRPDW2	X	1.02853	-0.01596	-8.33	1.03013	-0.01627	-8.59	XX
FZ27J1	*	1.04033	-0.00416	-2.17	1.04133	-0.00507	-2.68	XX
GLH8J4		1.04420	-0.00029	-0.15	1.04543	-0.00097	-0.51	XX
GWC8JU		1.04450	0.00001	0.00	1.04653	0.00013	0.07	XX
GWDPR5		1.04567	0.00117	0.61	1.04800	0.00160	0.84	XX
GZ2JWA		1.04323	-0.00126	-0.66	1.04597	-0.00044	-0.23	XX
H4W4GB		1.04083	-0.00366	-1.91	1.04187	-0.00454	-2.39	XX
HAFF5C		1.04357	-0.00093	-0.48	1.04523	-0.00117	-0.62	XX
HLWQVE		1.04730	0.00281	1.47	1.05053	0.00413	2.18	XX
JEHV5		1.04600	0.00151	0.79	1.04770	0.00130	0.68	XX
JYUKJL		1.04380	-0.00069	-0.36	1.04653	0.00013	0.07	XX
K9VWB2		1.04267	-0.00183	-0.95	1.04423	-0.00217	-1.15	XX
KLXGDG	X	1.04540	0.00091	0.47	1.04393	-0.00247	-1.30	XX
L3ZMAH		1.04680	0.00231	1.20	1.04840	0.00200	1.05	XX
MHFSD1		1.04700	0.00251	1.31	1.04873	0.00233	1.23	XX
N3CS3U		1.04183	-0.00266	-1.39	1.04407	-0.00234	-1.23	XX
NC7773		1.04337	-0.00113	-0.59	1.04513	-0.00127	-0.67	XX
NJR5QH		1.04193	-0.00256	-1.34	1.04487	-0.00154	-0.81	XX
P1G99Z	X	0.95713	-0.08736	-45.60	0.95830	-0.08810	-46.51	XX

Plastics Interlaboratory Testing Program

Analysis 718

Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T51			Sample T52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
P3Z93Q		1.04530	0.00081	0.42	1.04767	0.00126	0.67	XX
PDF8RL		1.04680	0.00231	1.20	1.04813	0.00173	0.91	XX
PNWN7N		1.04570	0.00121	0.63	1.04777	0.00136	0.72	XX
PQ8PF9		1.04537	0.00087	0.46	1.04757	0.00116	0.61	XX
PQXDW3		1.04223	-0.00226	-1.18	1.04507	-0.00134	-0.71	XX
PT7R1Z		1.04267	-0.00183	-0.95	1.04567	-0.00074	-0.39	XX
PVCJAL		1.04500	0.00051	0.26	1.04700	0.00060	0.31	XX
QQ6SSB	X	1.04000	-0.00449	-2.34	1.04000	-0.00640	-3.38	XX
R983ZX	X	1.03700	-0.00749	-3.91	1.03900	-0.00740	-3.91	XX
RVF1KF		1.04597	0.00147	0.77	1.04780	0.00140	0.74	XX
S1BTZF		1.04697	0.00247	1.29	1.04857	0.00216	1.14	XX
S3RVG6		1.04477	0.00027	0.14	1.04717	0.00076	0.40	XX
S438SG		1.04687	0.00237	1.24	1.04880	0.00240	1.27	XX
SD7DG8		1.04677	0.00227	1.19	1.04857	0.00216	1.14	XX
SJL83V		1.04600	0.00151	0.79	1.04600	-0.00040	-0.21	XX
SMEFU3		1.04600	0.00151	0.79	1.04667	0.00026	0.14	XX
SNFP84		1.04403	-0.00046	-0.24	1.04640	0.00000	0.00	XX
SZKH7M		1.04390	-0.00059	-0.31	1.04653	0.00013	0.07	XX
UJ1BRF		1.04500	0.00051	0.26	1.04800	0.00160	0.84	XX
VL1WWH		1.04337	-0.00113	-0.59	1.04420	-0.00220	-1.16	XX
VLPN99		1.04310	-0.00139	-0.73	1.04390	-0.00250	-1.32	XX
VULGJM		1.04060	-0.00389	-2.03	1.04323	-0.00317	-1.67	XX
W1WFFV		1.04496	0.00047	0.24	1.04752	0.00111	0.59	XX
W74W6V		1.04417	-0.00033	-0.17	1.04703	0.00063	0.33	XX
WALN9X		1.04653	0.00204	1.07	1.04787	0.00146	0.77	XX
XDMPRR		1.04580	0.00131	0.68	1.04950	0.00310	1.63	XX
XQQ2SF		1.04533	0.00084	0.44	1.04600	-0.00040	-0.21	XX
XSP37R		1.04637	0.00187	0.98	1.04830	0.00190	1.00	XX
XVAQUA		1.04323	-0.00126	-0.66	1.04640	0.00000	0.00	XX
Y8LFT1		1.04517	0.00067	0.35	1.04700	0.00060	0.31	XX
YGAC9Y		1.04273	-0.00176	-0.92	1.04433	-0.00207	-1.09	XX

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

WebCode	Data Flag	Sample T51			Sample T52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
ZE8WAZ		1.04320	-0.00129	-0.67	1.04433	-0.00207	-1.09	XX
ZLQY5R		1.04430	-0.00019	-0.10	1.04580	-0.00060	-0.32	XX
ZNPC8H		1.04123	-0.00326	-1.70	1.04263	-0.00377	-1.99	XX
ZS86MY		1.04250	-0.00199	-1.04	1.04627	-0.00014	-0.07	XX
ZUW7JR		1.04390	-0.00059	-0.31	1.04663	0.00023	0.12	XX

Summary Statistics

Grand Means

1.044493 sp gr 23/23 C

1.046403 sp gr 23/23 C

Std Dev Btwn Labs

0.001916 sp gr 23/23 C

0.001894 sp gr 23/23 C

Statistics based on 91 of 100 reporting participants

Sample T51: ABS & Sample T52: ABS

Comments on assigned Data Flags for Test #718

3R6N3K (X) - Low data for all samples.

4Z8BE1 (X) - Low data for all samples. Possible Systematic Error.

8C73AL (X) - Low data for all samples.

8QU5Y7 (X) - Extreme data.

FRPDW2 (X) - Low data for all samples.

KLXGDG (X) - Inconsistent in testing between samples.

P1G99Z (X) - Extreme data.

QQ6SSB (X) - Inconsistent in testing between samples, data for Sample T52 are low.

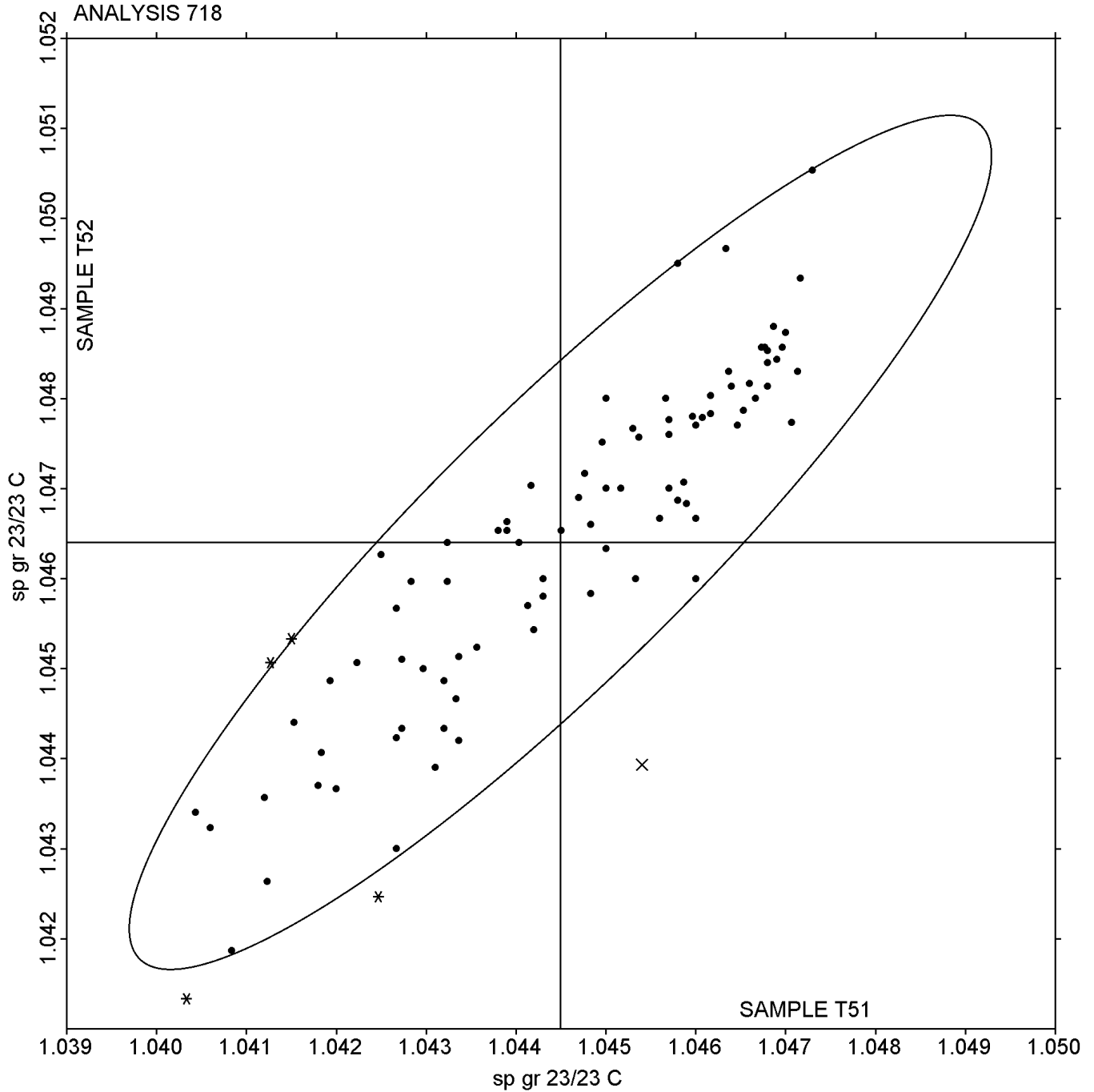
R983ZX (X) - Low data for all samples. Possible Systematic Error.

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 T51: 1.0445 sp gr 23/23 C Grand Mean Sample T52: 1.0464 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 plo

Plastics Interlaboratory Testing Program
Analysis 757

Ash Content in Thermoplastics - Percent

WebCode	Data Flag	Sample L51			Sample L52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2MPM79		18.100	0.198	1.18	15.180	0.012	0.11	XX
2ZR24Z		17.680	-0.222	-1.32	15.275	0.107	1.03	XX
3UJ1CY	X	17.205	-0.697	-4.14	15.140	-0.028	-0.27	XX
3X1AKE		17.940	0.038	0.23	15.070	-0.098	-0.95	XX
4EAN9A		17.600	-0.302	-1.79	15.120	-0.048	-0.46	XX
57M1G5		18.240	0.338	2.01	15.235	0.067	0.64	XX
69BHCQ		17.772	-0.131	-0.78	15.284	0.116	1.12	XX
6LH2NM		17.810	-0.092	-0.55	15.000	-0.168	-1.62	XX
6U7JYE		17.895	-0.007	-0.04	15.195	0.027	0.26	XX
7N2FSN		18.135	0.233	1.38	15.210	0.042	0.40	XX
8AC9HG		18.093	0.191	1.13	15.157	-0.011	-0.10	XX
8ZKMPR		17.685	-0.217	-1.29	15.080	-0.088	-0.85	XX
A445RW		18.040	0.138	0.82	15.200	0.032	0.31	XX
ACRUXW		17.960	0.058	0.34	15.155	-0.013	-0.13	XX
AF8323		18.280	0.378	2.25	15.215	0.047	0.45	XX
ANBCR6		17.785	-0.117	-0.70	15.215	0.047	0.45	XX
BGS6PT		18.135	0.233	1.38	15.105	-0.063	-0.61	XX
CCD2Y1		18.060	0.158	0.94	15.185	0.017	0.16	XX
DL1G2Y		17.850	-0.052	-0.31	15.200	0.032	0.31	XX
DYHGFT		17.815	-0.087	-0.52	15.215	0.047	0.45	XX
EPVRKT		17.950	0.048	0.28	15.165	-0.003	-0.03	XX
FJJQS4	*	17.595	-0.307	-1.82	14.935	-0.233	-2.24	XX
G4D2X1		17.865	-0.037	-0.22	15.270	0.102	0.98	XX
G8GHUG	X	17.630	-0.272	-1.62	14.060	-1.108	-10.67	XX
GP1ZCV		17.915	0.013	0.08	15.190	0.022	0.21	XX
JDT1NS		17.715	-0.187	-1.11	15.120	-0.048	-0.46	XX
JRJ9LV		17.680	-0.222	-1.32	15.005	-0.163	-1.57	XX
K2G42K		18.195	0.293	1.74	15.190	0.022	0.21	XX
KAL1ZW		17.985	0.083	0.49	15.130	-0.038	-0.37	XX
L14L36		17.925	0.023	0.14	15.185	0.017	0.16	XX
M1282W		18.035	0.133	0.79	15.170	0.002	0.02	XX
M67N9D		18.212	0.310	1.84	15.250	0.082	0.79	XX

Plastics Interlaboratory Testing Program
Analysis 757

Ash Content in Thermoplastics - Percent

WebCode	Data Flag	Sample L51			Sample L52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
MGDTS1		17.915	0.013	0.08	15.115	-0.053	-0.51	XX
PHW2QM		17.730	-0.172	-1.02	15.190	0.021	0.20	XX
Q5QE5U		17.900	-0.002	-0.01	15.300	0.132	1.27	XX
QGMD7E		17.745	-0.157	-0.93	15.105	-0.063	-0.61	XX
RCK5GB		17.885	-0.017	-0.10	15.205	0.037	0.35	XX
RNFXQG		17.615	-0.287	-1.71	15.345	0.177	1.70	XX
RP95QW	X	23.115	5.213	30.97	16.290	1.122	10.80	XX
RZL9EH		17.925	0.023	0.14	15.170	0.002	0.02	XX
SKVUND		17.925	0.023	0.14	15.200	0.032	0.31	XX
TERT4W		17.825	-0.077	-0.46	15.165	-0.003	-0.03	XX
U92ULW		17.935	0.033	0.20	15.190	0.022	0.21	XX
V2E7VM		17.900	-0.002	-0.01	15.000	-0.168	-1.62	XX
VHDVPF		17.850	-0.052	-0.31	15.295	0.127	1.22	XX
VWBECE		18.160	0.258	1.53	15.040	-0.128	-1.23	XX
VYBSCM	*	17.825	-0.077	-0.46	14.880	-0.288	-2.77	XX
W1YS74		18.085	0.183	1.09	15.205	0.037	0.35	XX
W498BK		17.730	-0.172	-1.02	15.165	-0.003	-0.03	XX
WNXTPJ		17.740	-0.162	-0.96	15.065	-0.103	-0.99	XX
XPGWHL		17.940	0.038	0.23	15.070	-0.098	-0.95	XX
XTF7RQ		17.770	-0.132	-0.78	15.140	-0.028	-0.27	XX
Y8V2YV	X	24.550	6.648	39.50	18.350	3.182	30.63	XX
Y94BSG		17.995	0.093	0.55	15.085	-0.083	-0.80	XX
YNWMVV		17.825	-0.077	-0.46	15.380	0.212	2.04	XX
ZE7RMX	*	17.835	-0.067	-0.40	15.455	0.287	2.76	XX
ZGYSNC		17.810	-0.092	-0.55	15.245	0.077	0.74	XX

Ash Content in Thermoplastics - Percent

Summary Statistics

Grand Means

17.9021 Percent

15.1682 Percent

Std Dev Btwn Labs

0.1683 Percent

0.1039 Percent

Statistics based on 53 of 57 reporting participants

Sample L51: PBT & Sample L52: PBT

Comments on assigned Data Flags for Test #757

3UJ1CY (X) - Low data for Sample L51 .

G8GHUG (X) - Low data for Sample L52 .

RP95QW (X) - High data for all samples.

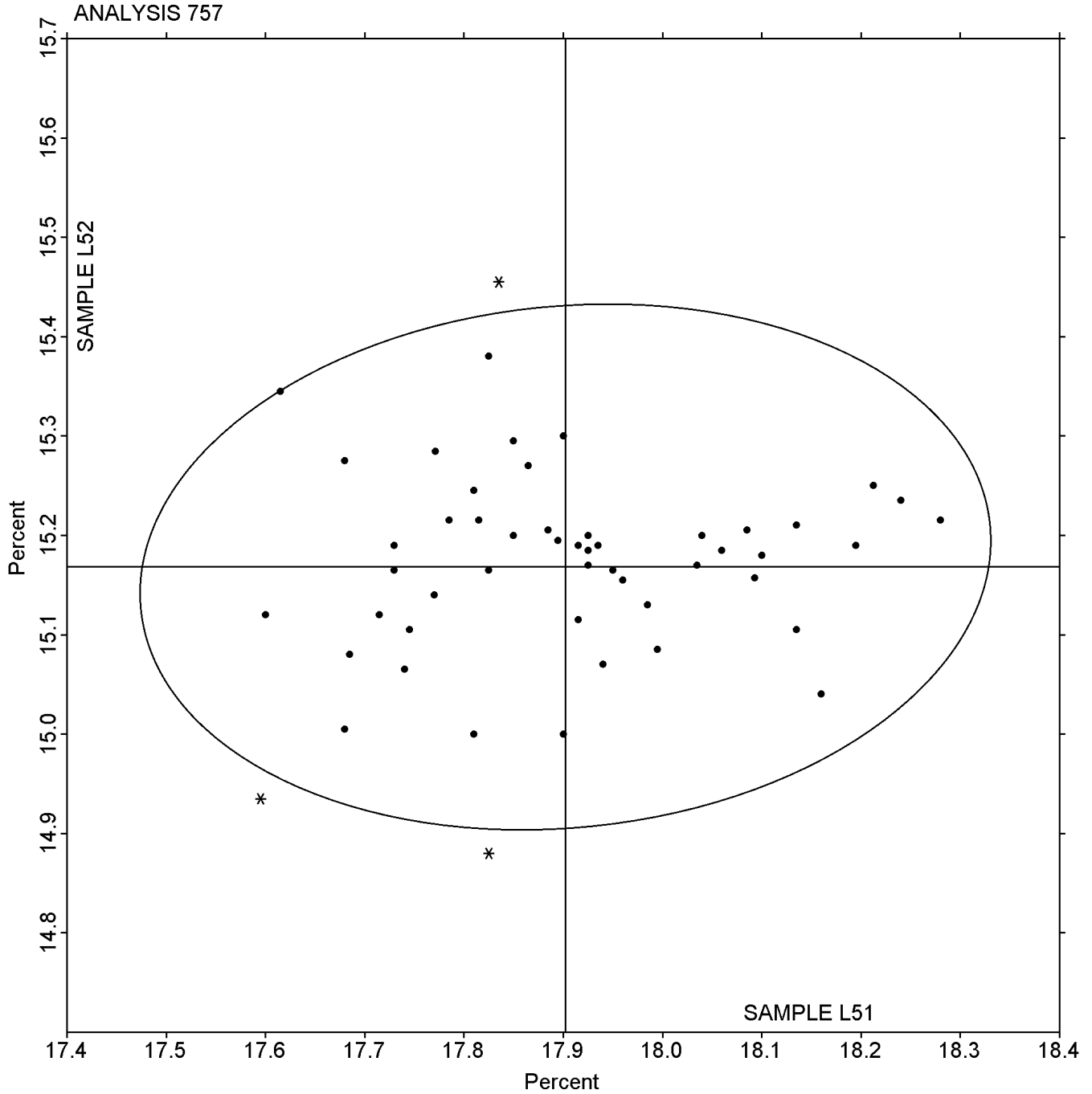
Y8V2YV (X) - High data for all samples.

Instrument Code List as Reported by the Labs

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

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

Grand Mean Sample L51: 17.902 Percent Grand Mean Sample L52: 15.168 Percent



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

Plastics Interlaboratory Testing Program
Analysis 770

Tensile Stress at Yield, Film Samples - psi

WebCode	Data Flag	Sample B51			Sample B52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2GLE2U	X	8	-2,208	-4.83	6	-1,851	-4.08	XX
9FLEVN		2,587	371	0.81	1,795	-62	-0.14	IN
9NGFZT	M	2,755	539	1.18	No data reported for this sample			IN
BW519U	X	4,345	2,130	4.66	4,222	2,366	5.22	UC
D9CCAR		1,631	-585	-1.28	1,485	-371	-0.82	IN
DF13N5	X	4,608	2,392	5.24	3,378	1,522	3.36	XX
FMP23D		2,492	276	0.60	2,106	250	0.55	IN
HK5ZUM		1,827	-388	-0.85	1,689	-168	-0.37	IN
JD38DH		2,589	373	0.82	1,879	22	0.05	IR
LEK5L5	*	2,516	301	0.66	3,207	1,351	2.98	XX
LLT26B		1,880	-336	-0.74	1,680	-177	-0.39	IM
MC7ES9		2,664	449	0.98	1,805	-51	-0.11	TH
QZSGGN		2,629	413	0.90	1,668	-189	-0.42	XX
RUT3YU	M	2,597	382	0.84	No data reported for this sample			IN
W26P22		1,574	-642	-1.41	1,580	-276	-0.61	IN
WCHEUL	M	2,571	355	0.78	No data reported for this sample			IM
X4AE4A		1,634	-581	-1.27	1,646	-210	-0.46	IN
XWD1HU		2,567	352	0.77	1,735	-121	-0.27	TY

Summary Statistics

Grand Means

2,215.8 psi

1,856.2 psi

Std Dev Btwn Labs

456.8 psi

453.3 psi

Statistics based on 12 of 18 reporting participants

Sample B51: LDPE & Sample B52: LDPE

Comments on assigned Data Flags for Test #770

2GLE2U (X) - Extreme data.

9NGFZT (M) - Laboratory did not submit data for Sample B52.

BW519U (X) - High data for all samples.

DF13N5 (X) - High data for all samples.

RUT3YU (M) - Laboratory did not submit data for Sample B52.

WCHEUL (M) - Laboratory did not submit data for Sample B52.

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

(TH) - Thwing Albert

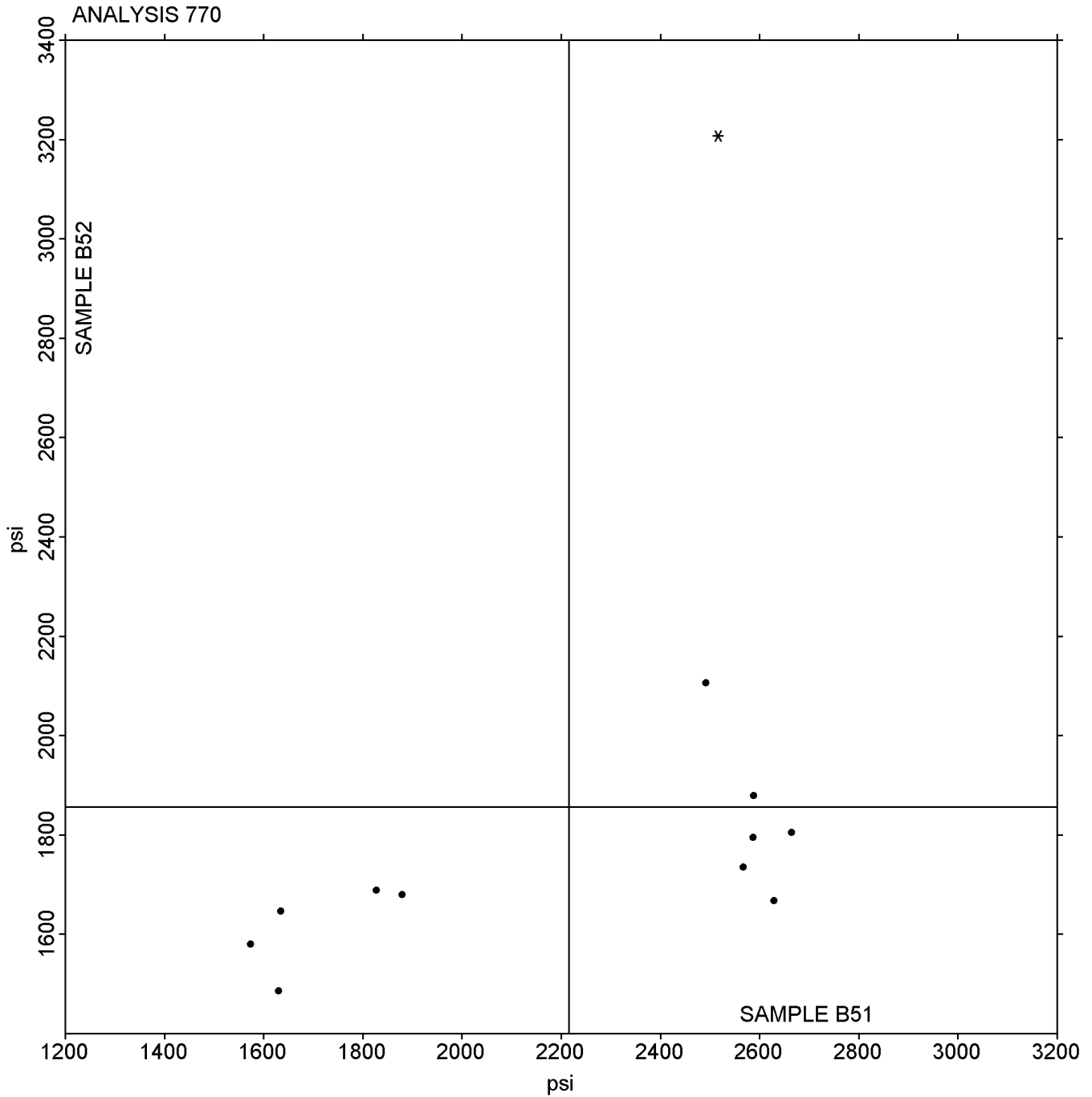
(TY) - Toyoseiki

(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 B51: 2,215.79 psi Grand Mean Sample B52: 1,856.16 psi



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

Plastics Interlaboratory Testing Program
Analysis 771

Tensile Stress at Break, Film Samples - psi

WebCode	Data Flag	Sample B51			Sample B52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2AZMQU	X	38	-4,149	-5.19	19	-3,052	-6.46	XX
5GQ8AU		4,730	543	0.68	3,505	433	0.92	IN
69A7QW		4,873	686	0.86	3,317	245	0.52	TY
7XC8C7		3,430	-758	-0.95	2,765	-306	-0.65	IN
9GVNPT		4,014	-174	-0.22	2,745	-327	-0.69	IN
AENY5T		3,348	-839	-1.05	3,149	77	0.16	WA
ASPG98		4,588	401	0.50	3,341	269	0.57	IM
B9QY6P		4,579	392	0.49	3,336	264	0.56	IN
BAEEUA		4,749	561	0.70	3,448	376	0.80	IN
BYKSTK		5,127	940	1.18	3,638	566	1.20	TH
DEVVX2	X	10,813	6,626	8.29	7,966	4,894	10.36	UC
JWGJ6C		4,262	75	0.09	3,070	-2	0.00	IN
KDCGHA		2,151	-2,036	-2.55	1,850	-1,221	-2.59	XX
KJU7DD		3,966	-221	-0.28	2,917	-155	-0.33	IN
KSLP48		3,018	-1,170	-1.46	2,421	-651	-1.38	SH
LXMPUG		4,355	168	0.21	3,523	451	0.95	IR
ME79UB		3,787	-400	-0.50	2,906	-166	-0.35	IM
MVAD2L		4,443	256	0.32	3,225	153	0.32	IN
NA1BL3		4,839	652	0.82	2,879	-193	-0.41	XX
Y5PTC8		5,437	1,250	1.56	3,760	688	1.46	IR
YNRBP9		3,859	-328	-0.41	2,569	-503	-1.06	IN

Summary Statistics

Grand Means

4,187.1 psi

3,071.7 psi

Std Dev Btwn Labs

799.4 psi

472.3 psi

Statistics based on 19 of 21 reporting participants

Sample B51: LDPE & Sample B52: LDPE

Comments on assigned Data Flags for Test #771

2AZMQU (X) - Extreme data.

DEVVX2 (X) - Extreme data.

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

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

(IR) - Instron with retrofit

(SH) - Shimadzu

(TH) - Thwing Albert

(TY) - Toyoseiki

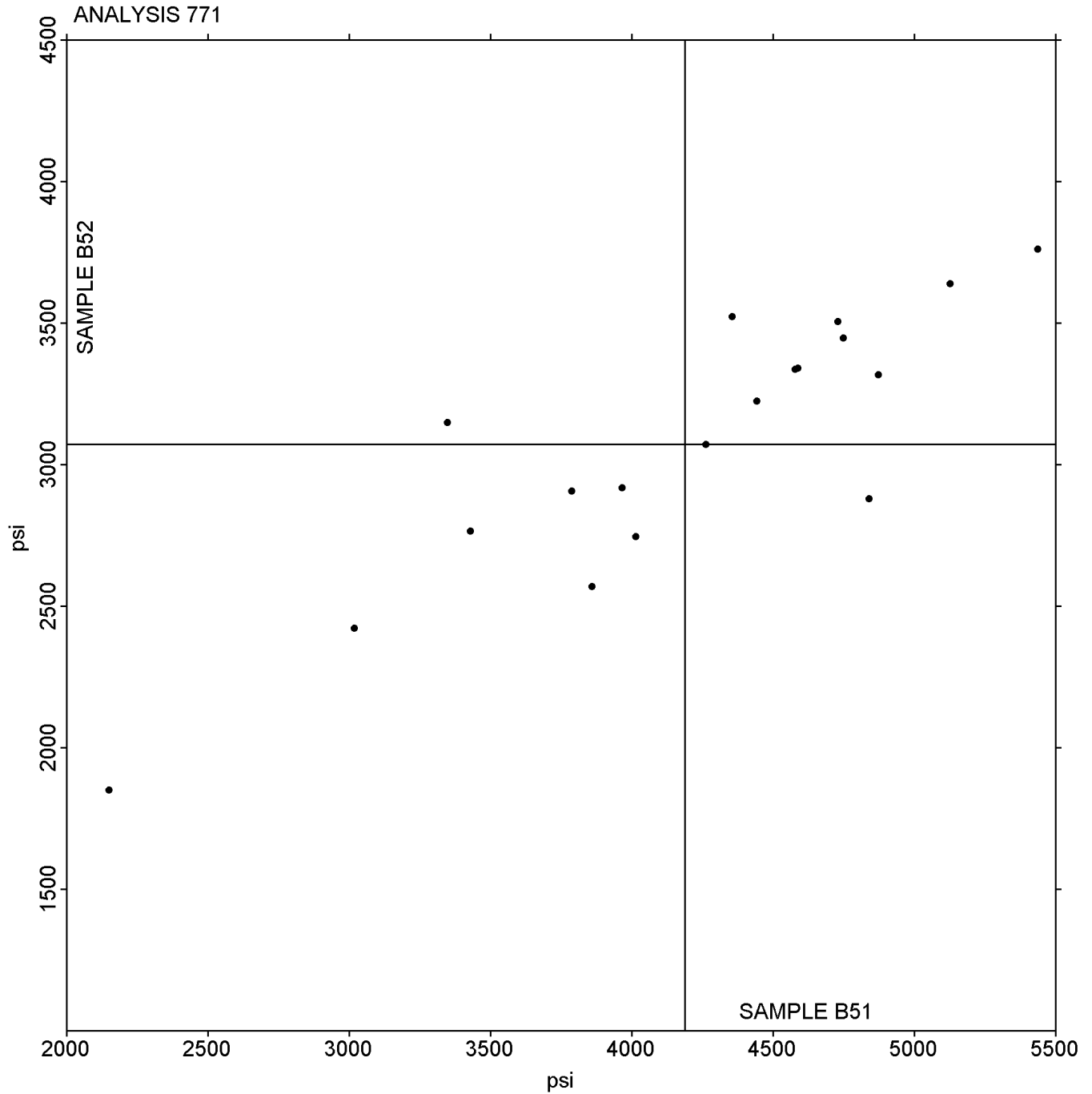
(UC) - United

(WA) - Wagner

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B51: 4,187.14 psi Grand Mean Sample B52: 3,071.72 psi



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

**Plastics Interlaboratory Testing Program
Analysis 772**

Percent Elongation at Yield, Films

WebCode	Data Flag	Sample B51			Sample B52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1ZKCP1		9.74	-30.04	-0.90	10.38	-11.53	-0.53	IN
2RP31X		24.41	-15.37	-0.46	16.21	-5.70	-0.26	IM
2RP86M	M	78.95	39.17	1.18	No data reported for this sample			IN
2XLR1H		17.26	-22.52	-0.68	18.40	-3.51	-0.16	IN
3ZTLPL	M	115.86	76.08	2.28	No data reported for this sample			IM
8L79RR		82.03	42.24	1.27	16.27	-5.64	-0.26	XX
8N9U3T	M	90.81	51.03	1.53	No data reported for this sample			IN
EU83HM		83.08	43.30	1.30	21.20	-0.71	-0.03	IR
GMGEWF		3.71	-36.07	-1.08	2.83	-19.08	-0.88	XX
LUYE9X		10.00	-29.78	-0.89	8.33	-13.58	-0.62	IN
VUCZ67		9.84	-29.94	-0.90	10.07	-11.84	-0.54	IN
WKLUSZ		82.63	42.85	1.29	78.69	56.78	2.61	IN
YX5H7Q		46.34	6.56	0.20	45.16	23.25	1.07	UC
ZQ19VY		68.57	28.79	0.86	13.45	-8.46	-0.39	IN

Summary Statistics

Grand Means

39.783 Percent

21.909 Percent

Std Dev Btwn Labs

33.313 Percent

21.760 Percent

Statistics based on 11 of 14 reporting participants

Sample B51: LDPE & Sample B52: LDPE

Comments on assigned Data Flags for Test #772

2RP86M (M) - Laboratory did not submit data for Sample B52.

3ZTLPL (M) - Laboratory did not submit data for Sample B52.

8N9U3T (M) - Laboratory did not submit data for Sample B52.

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

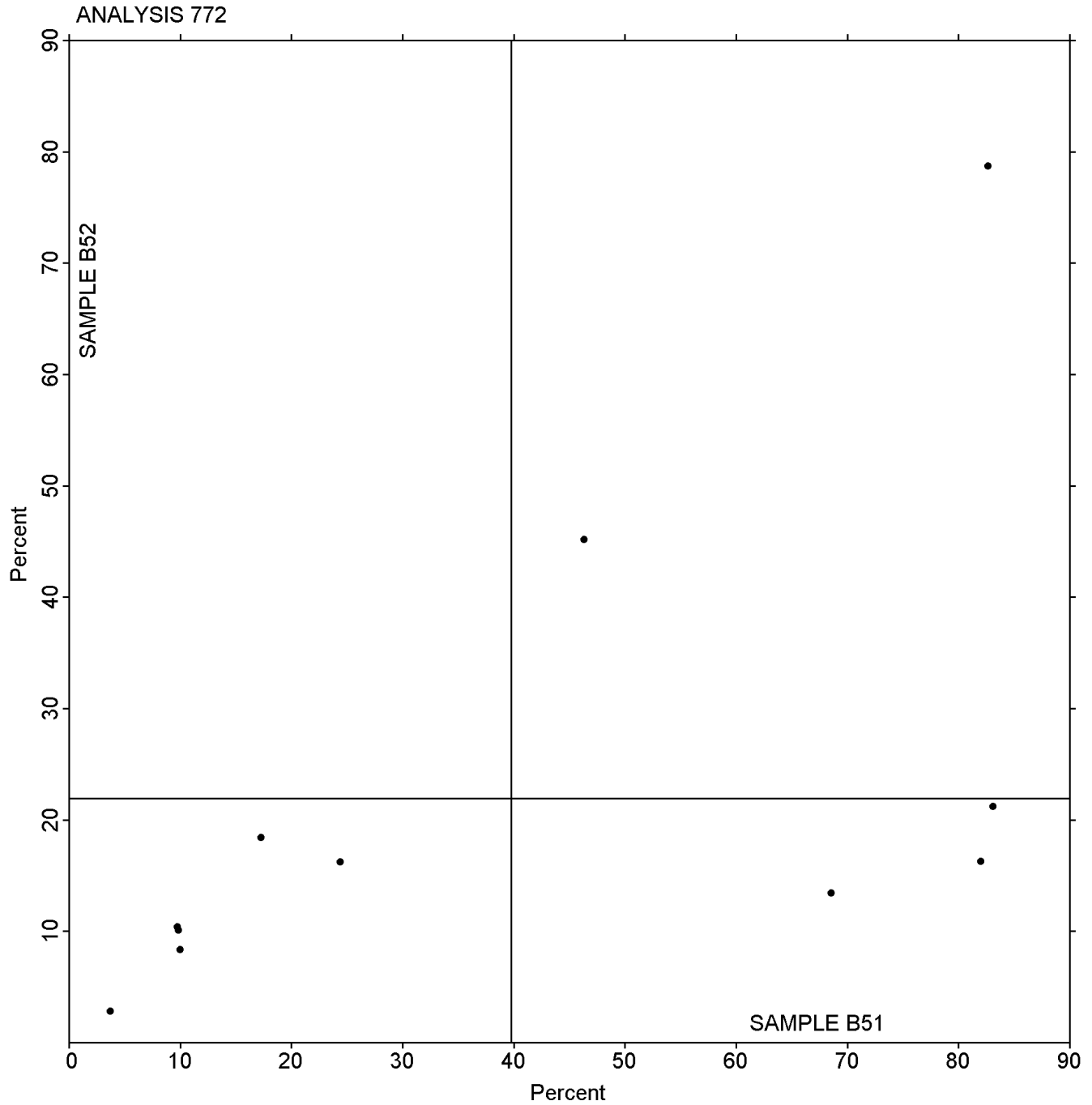
(IR) - Instron with retrofit

(UC) - United

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B51: 39.783 Percent Grand Mean Sample B52: 21.909 Percent



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

**Plastics Interlaboratory Testing Program
Analysis 773**

Percent Elongation at Break, Film Samples

WebCode	Data Flag	Sample B51			Sample B52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2BA13Q		454.5	-130.3	-1.30	284.9	-86.8	-1.04	IN
2CBRS6		653.9	69.1	0.69	439.0	67.3	0.81	IR
5HMJ5T		672.8	88.0	0.88	307.9	-63.8	-0.77	XX
5Z7BU1	X	2,950.0	2,365.2	23.65	2,450.4	2,078.7	25.01	WA
8F7TEQ		562.3	-22.5	-0.22	346.5	-25.2	-0.30	IM
9B84VN		528.7	-56.1	-0.56	340.4	-31.3	-0.38	IN
9C529T		591.9	7.1	0.07	419.7	48.0	0.58	IN
A52XRD		570.6	-14.2	-0.14	408.4	36.7	0.44	IN
CWPSDG		502.2	-82.6	-0.83	264.9	-106.8	-1.28	SH
DY1SB8		608.1	23.3	0.23	331.5	-40.2	-0.48	IN
GHL8BX	*	886.6	301.8	3.02	599.8	228.1	2.74	IM
GZ4LUL		560.5	-24.3	-0.24	384.2	12.5	0.15	IN
HXAM3A		550.0	-34.8	-0.35	269.4	-102.3	-1.23	XX
MLZE2E		491.3	-93.4	-0.93	358.0	-13.7	-0.17	XX
TNE66V	X	1,496.2	911.4	9.11	1,018.0	646.3	7.78	UC
WRP15C		676.4	91.6	0.92	460.6	88.9	1.07	IR
XRWF3M		616.6	31.8	0.32	418.1	46.4	0.56	IN
Y74EKG		451.4	-133.4	-1.33	274.9	-96.8	-1.16	IN
YXRK4D		565.1	-19.7	-0.20	388.5	16.8	0.20	TH
ZUTS2K		582.7	-2.1	-0.02	393.7	22.0	0.26	IN

Summary Statistics

Grand Means

584.75 Percent

371.69 Percent

Std Dev Btwn Labs

100.00 Percent

83.12 Percent

Statistics based on 18 of 20 reporting participants

Sample B51: LDPE & Sample B52: LDPE

Comments on assigned Data Flags for Test #773

5Z7BU1 (X) - High data for all samples.

TNE66V (X) - High data for all samples. Also inconsistent in testing within both samples.

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

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IR) - Instron with retrofit

(TH) - Thwing Albert

(WA) - Wagner

(IN) - Instron

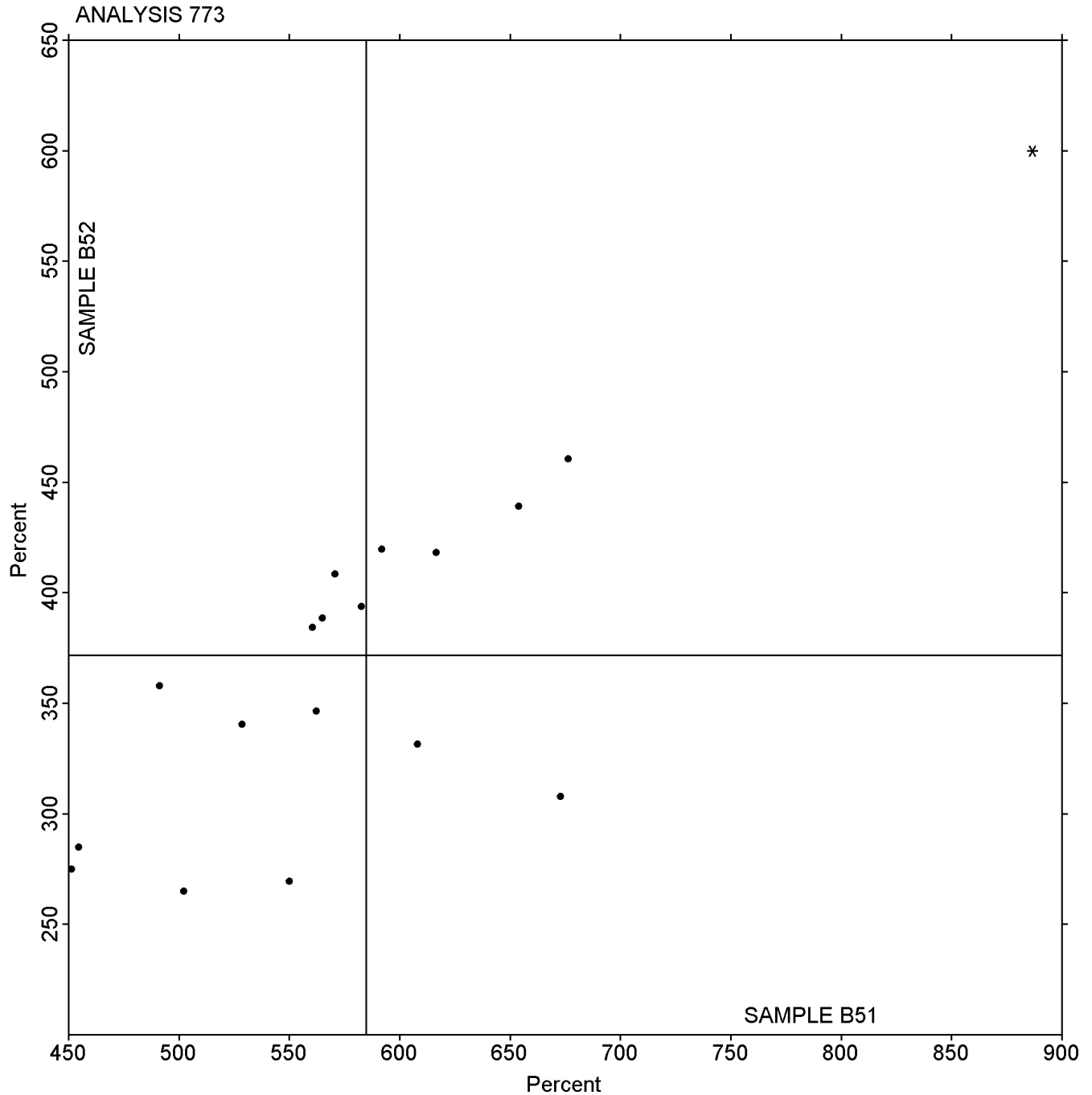
(SH) - Shimadzu

(UC) - United

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B51: 584.75 Percent Grand Mean Sample B52: 371.69 Percent



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

Plastics Interlaboratory Testing Program
Analysis 774

Thickness of Film Tensile Samples - mils

WebCode	Data Flag	Sample B51			Sample B52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1NCW5T		1.9606	0.0262	0.32	2.9213	0.0438	0.50	XX
44MWD7		1.9560	0.0215	0.26	2.9740	0.0965	1.10	XX
56AB77		1.9300	-0.0045	-0.05	2.7700	-0.1075	-1.23	XX
8RAHHU		2.0260	0.0915	1.12	2.8960	0.0185	0.21	XX
8Z2F8U		1.9300	-0.0045	-0.05	2.7500	-0.1275	-1.46	XX
97S9VR		2.0130	0.0785	0.96	2.9630	0.0855	0.98	XX
9DUDU8		1.9764	0.0419	0.51	2.8543	-0.0231	-0.26	XX
AZ8X93		2.0900	0.1555	1.91	3.0300	0.1525	1.74	XX
BCLP9K		1.7840	-0.1505	-1.85	2.8330	-0.0445	-0.51	XX
E1PSW6		1.9800	0.0455	0.56	2.8600	-0.0175	-0.20	XX
FV83ZD		1.8470	-0.0875	-1.07	2.8440	-0.0335	-0.38	XX
GB2KGG	X	3.9700	2.0355	24.98	2.8900	0.0125	0.14	XX
HHUXGV		1.9150	-0.0195	-0.24	2.7850	-0.0925	-1.06	XX
JGZVRM		1.9750	0.0405	0.50	2.9100	0.0325	0.37	XX
LY8TDN		1.7900	-0.1445	-1.77	2.6550	-0.2225	-2.54	XX
N7Y1N7		2.0079	0.0735	0.90	2.9016	0.0242	0.28	XX
PQLJQ3		1.9450	0.0105	0.13	2.9950	0.1175	1.34	XX
PTGSMR		1.7500	-0.1845	-2.26	2.9000	0.0225	0.26	XX
QNWRN7		1.8860	-0.0485	-0.59	2.9400	0.0625	0.71	XX
QQM2EW		1.9340	-0.0005	-0.01	2.9450	0.0675	0.77	XX
U4WSQK		1.9110	-0.0235	-0.29	2.8840	0.0065	0.07	XX
VMAERY		1.9606	0.0262	0.32	2.7756	-0.1019	-1.16	XX
YQ4GHZ		1.9150	-0.0195	-0.24	2.9200	0.0425	0.49	XX
ZN7ZQK		2.0100	0.0755	0.93	2.8750	-0.0025	-0.03	XX

Summary Statistics

Grand Means

1.93446 mils

2.87747 mils

Std Dev Btwn Labs

0.08150 mils

0.08754 mils

Statistics based on 23 of 24 reporting participants

Sample B51: LDPE & Sample B52: LDPE

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

Comments on assigned Data Flags for Test #774

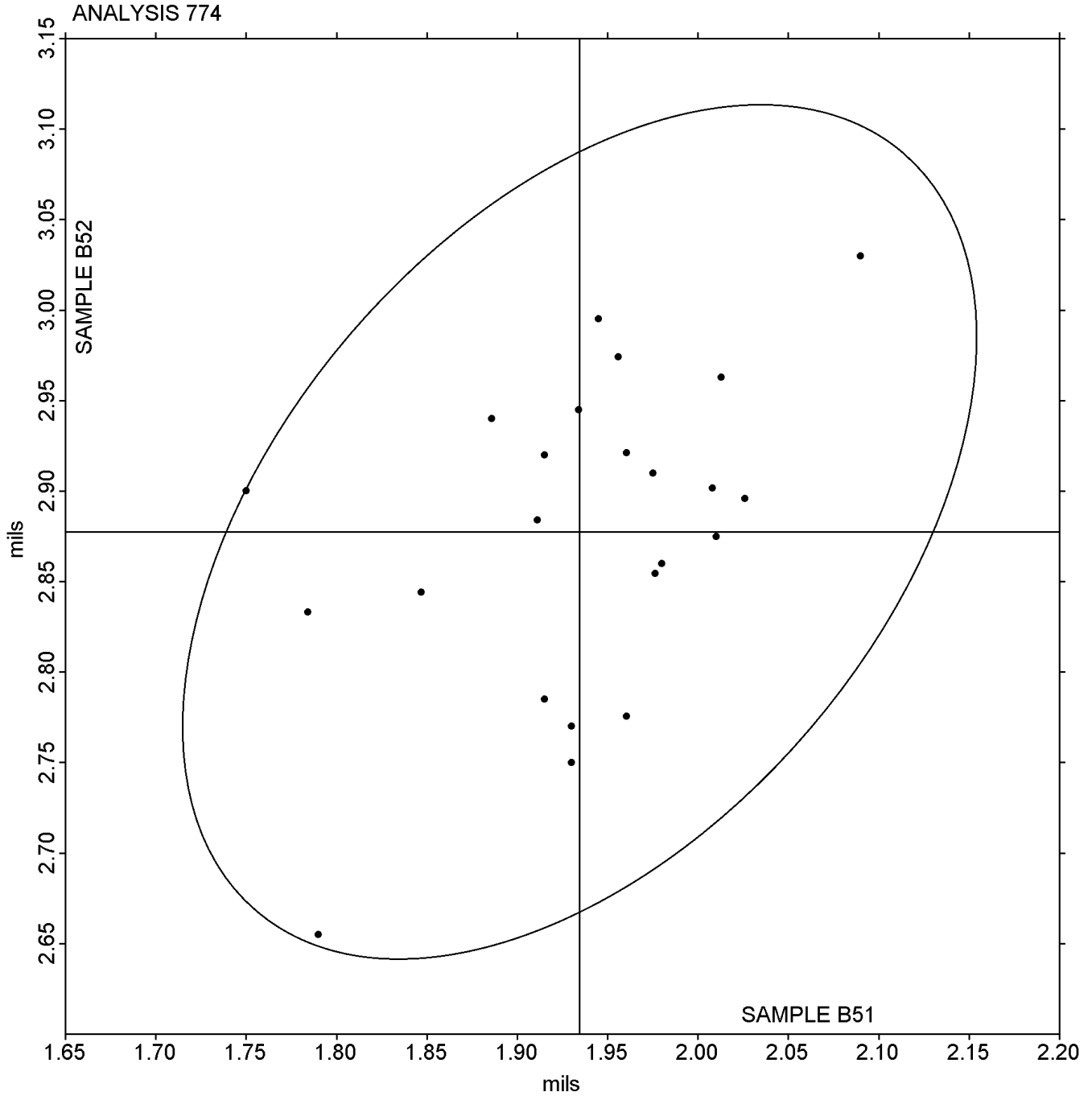
GB2KGG (X) - Inconsistent in testing between samples, data for Sample B51 are high.

Instrument Code List as Reported by the Labs

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

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

Grand Mean Sample B51: 1.9345 mils Grand Mean Sample B52: 2.8775 mils



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

Plastics Interlaboratory Testing Program
Analysis 780
Coefficient of Static Friction

WebCode	Data Flag	Sample P51			Sample P52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3WUW5H		0.2030	0.0032	0.09	0.1364	-0.0289	-0.57	TN
3YDC87		0.1686	-0.0312	-0.89	0.1910	0.0257	0.50	TH
AJSM3R		0.2816	0.0818	2.34	0.2826	0.1173	2.30	IS
ATM5X3		0.1478	-0.0520	-1.48	0.0976	-0.0677	-1.33	XX
B8TM5K		0.1850	-0.0148	-0.42	0.0990	-0.0663	-1.30	KA
CHB553		0.2202	0.0204	0.58	0.1762	0.0109	0.21	IN
E4CPTF		0.1970	-0.0028	-0.08	0.1286	-0.0367	-0.72	SA
EK8AMY		0.2070	0.0072	0.21	0.1852	0.0199	0.39	IP
J5GHW7		0.2072	0.0074	0.21	0.1630	-0.0023	-0.05	TH
J6M49J		0.2210	0.0212	0.61	0.1680	0.0027	0.05	TH
JWCCF9		0.1616	-0.0382	-1.09	0.1374	-0.0279	-0.55	TH
L4PAPF		0.1694	-0.0304	-0.87	0.1550	-0.0103	-0.20	TH
UDRMBS		0.2276	0.0278	0.79	0.2294	0.0641	1.26	TN

Summary Statistics

Grand Means

0.19977 COF

0.16534 COF

Std Dev Btwn Labs

0.03504 COF

0.05091 COF

Statistics based on 13 of 13 reporting participants

Sample P51: LDPE & Sample P52: LDPE

Instrument Code List as Reported by the Labs

(IN) - Instron 4200 Series

(IP) - Instron 4400 Series

(IS) - Instron Model 5565

(KA) - Kayeness Inc.

(SA) - Shimadzu Autograph AG 2000 A

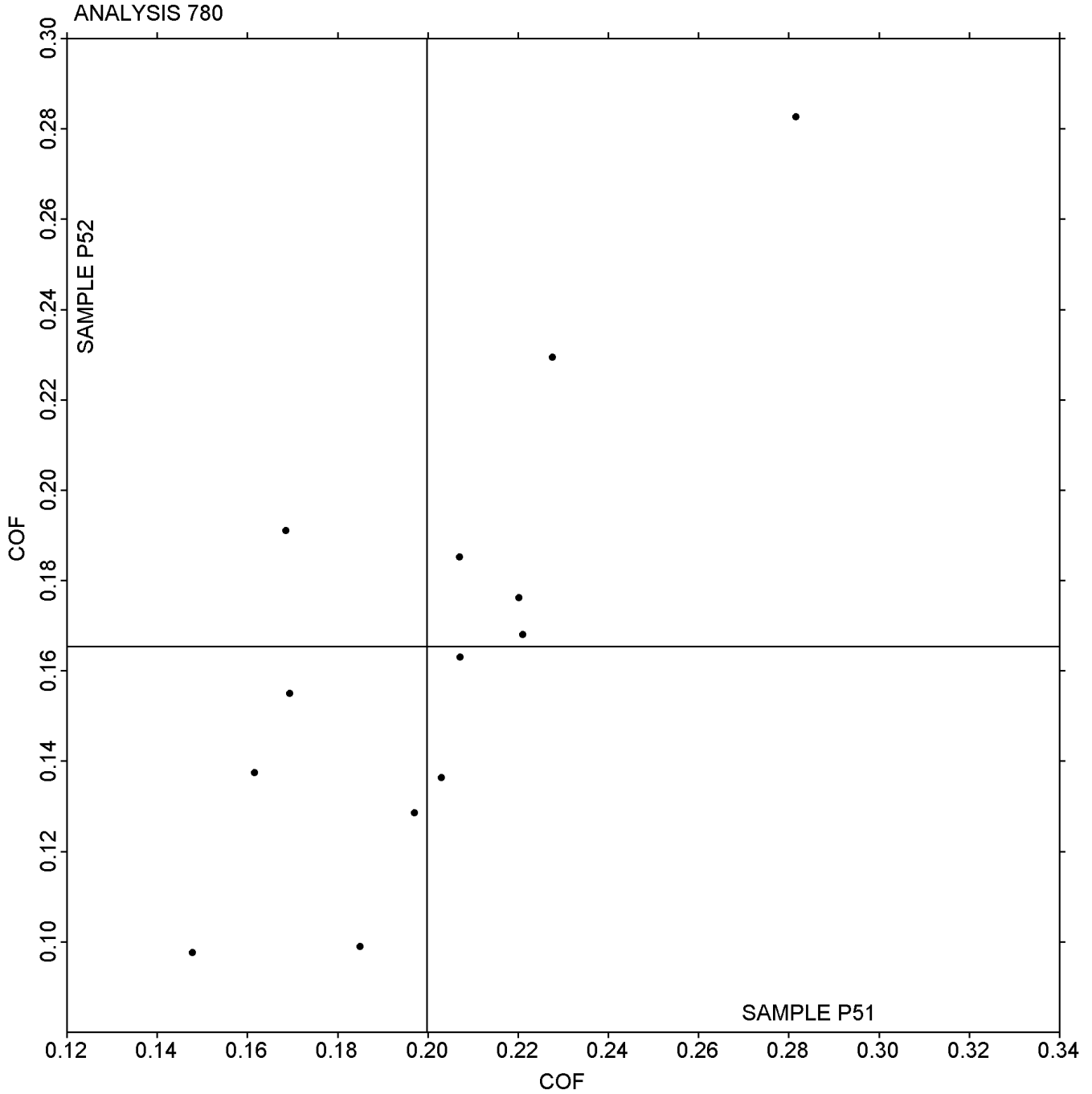
(TH) - Thwing Albert Friction/Peel Tester Model 225-1

(TN) - TMI #32-06

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

Plastics Interlaboratory Testing Program
Analysis 780
Coefficient of Static Friction

Grand Mean Sample P51: 0.19977 COF Grand Mean Sample P52: 0.16534 COF



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

**Plastics Interlaboratory Testing Program
Analysis 781**

Coefficient of Kinetic Friction

WebCode	Data Flag	Sample P51			Sample P52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
126PA2		0.1434	-0.0021	-0.08	0.1024	-0.0147	-0.43	TH
21FMHL		0.1416	-0.0039	-0.16	0.1364	0.0193	0.56	TN
2CY2PU		0.1358	-0.0097	-0.39	0.0830	-0.0341	-1.00	SA
6T77U9		0.1858	0.0403	1.63	0.1628	0.0457	1.34	IP
BKQXZQ		0.1094	-0.0361	-1.46	0.0854	-0.0317	-0.93	TH
FP9XG6		0.1520	0.0065	0.26	0.0932	-0.0239	-0.70	TN
GDL47K		0.1988	0.0533	2.15	0.2026	0.0855	2.50	IS
NK44YT		0.1384	-0.0071	-0.29	0.0915	-0.0256	-0.75	XX
R6EFRQ		0.1408	-0.0047	-0.19	0.1132	-0.0039	-0.11	IN
RDPPNS		0.1238	-0.0217	-0.88	0.0988	-0.0183	-0.54	TH
U14NUF		0.1548	0.0093	0.38	0.1284	0.0113	0.33	XX
UCL9CG		0.1174	-0.0281	-1.13	0.1060	-0.0111	-0.33	TH
WW3S1V		0.1494	0.0039	0.16	0.1188	0.0017	0.05	TH

Summary Statistics

Grand Means

0.14549 COF

0.11711 COF

Std Dev Btwn Labs

0.02476 COF

0.03414 COF

Statistics based on 13 of 13 reporting participants

Sample P51: LDPE & Sample P52: LDPE

Instrument Code List as Reported by the Labs

(IN) - Instron 4200 Series

(IP) - Instron 4400 Series

(IS) - Instron Model 5565

(SA) - Shimadzu Autograph AG 2000 A

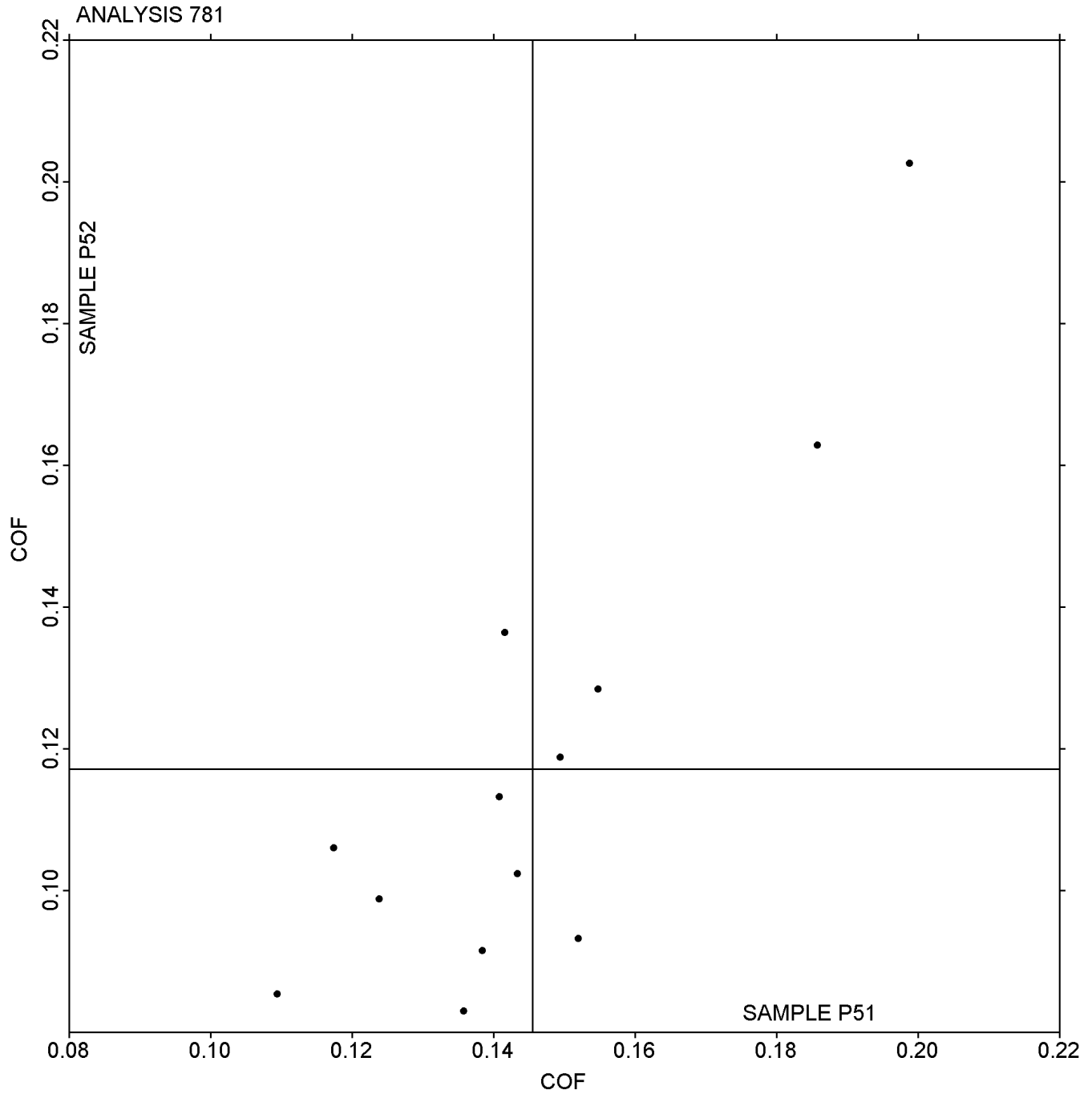
(TH) - Thwing Albert Friction/Peel Tester Model 225-1

(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 P51: 0.14549 COF Grand Mean Sample P52: 0.11711 COF



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

Plastics Interlaboratory Testing Program
Analysis 782
Tear Resistance of Films

WebCode	Data Flag	Sample Q51			Sample Q52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
4VPUQH		39.2	-10.3	-0.67	623.3	-40.2	-0.41	LO
BAR7JT		33.8	-15.7	-1.02	520.0	-143.5	-1.45	TH
DSGMFH		75.4	25.9	1.68	645.7	-17.8	-0.18	AL
H71NQ5		39.4	-10.1	-0.65	666.5	3.0	0.03	XX
P86KWT		65.2	15.7	1.02	747.3	83.8	0.85	TF
UCSHJ7		42.3	-7.2	-0.47	614.5	-49.0	-0.50	TE
Y24DQC		51.2	1.7	0.11	827.2	163.7	1.65	XX

Summary Statistics

Grand Means

49.50 grams-force

663.49 grams-force

Std Dev Btwn Labs

15.43 grams-force

98.95 grams-force

Statistics based on 7 of 7 reporting participants

Sample Q51: LDPE & Sample Q52: LDPE

Instrument Code List as Reported by the Labs

(AL) - Adamel Lhomargy ED20

(LO) - Lorentzen & Wettre Model II

(TE) - Thwing-Albert Pro Tear

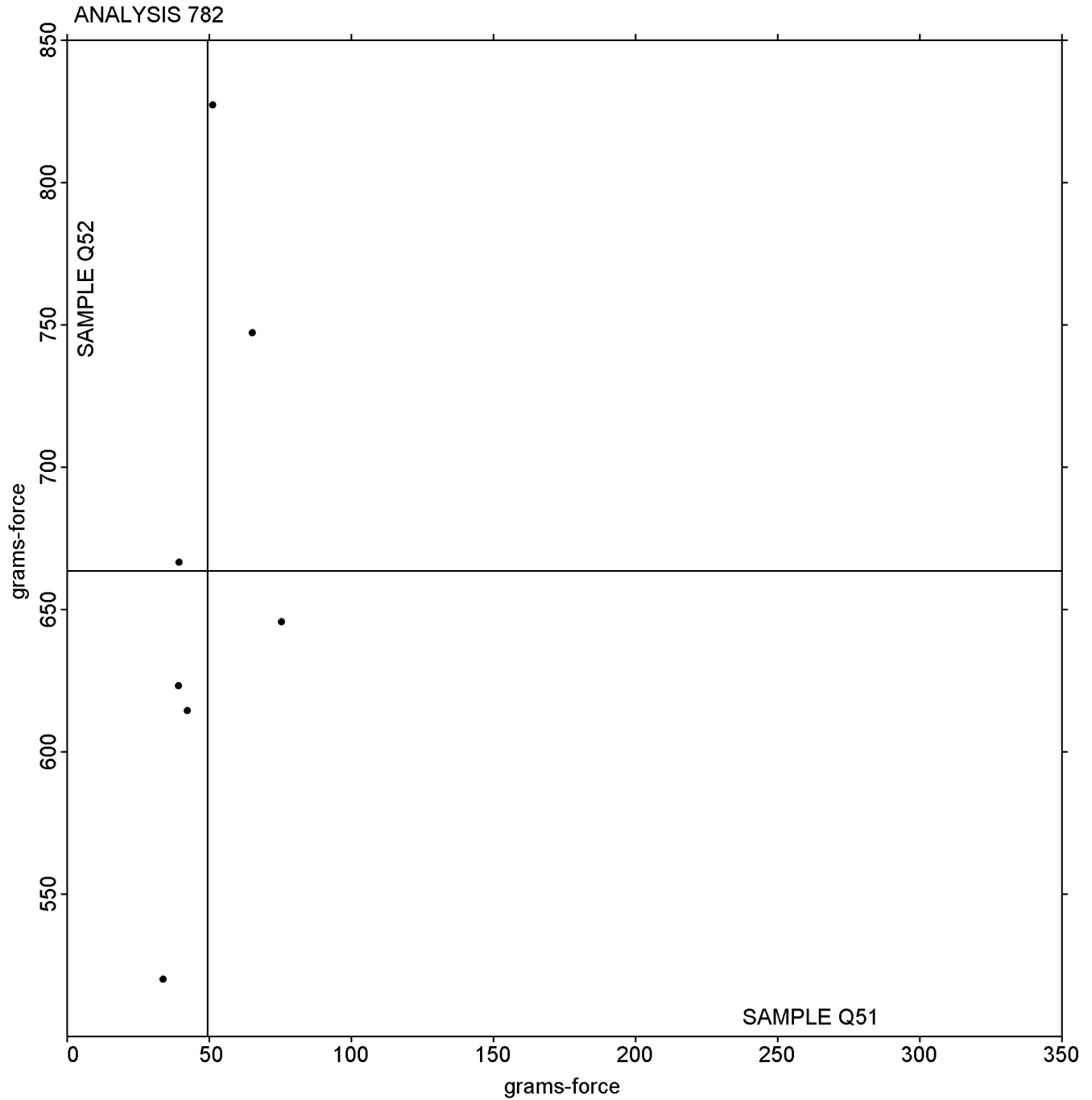
(TF) - Thwing-Albert Model 60-1500

(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 Q51: 49.498 grams-force Grand Mean Sample Q52: 663.49 grams-force



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

Plastics Interlaboratory Testing Program
Analysis 785
Percent Haze of Film

WebCode	Data Flag	Sample D51			Sample D52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
314NEU		4.700	-0.694	-1.25	4.663	-0.724	-1.49	BH
53J6H3		4.679	-0.715	-1.29	5.151	-0.235	-0.48	HC
7AEQZ4		6.185	0.791	1.42	5.594	0.207	0.43	BJ
7J7QDM		4.460	-0.934	-1.68	4.494	-0.893	-1.84	HL
7NDF4C		4.880	-0.514	-0.92	5.099	-0.288	-0.59	HL
7Y8SE5		5.021	-0.372	-0.67	5.234	-0.153	-0.31	BJ
8EZNN4	M	No data reported for this sample			5.274	-0.113	-0.23	XX
967CTP		5.808	0.414	0.74	5.273	-0.114	-0.23	BT
9FKMVV		5.950	0.556	1.00	5.149	-0.238	-0.49	BJ
AEBVGC		5.433	0.039	0.07	5.095	-0.291	-0.60	BJ
E7S2JN		5.386	-0.007	-0.01	5.201	-0.185	-0.38	BJ
FN27GC		6.154	0.760	1.37	5.899	0.512	1.05	XX
HVQ6ZG		5.798	0.404	0.73	6.283	0.896	1.84	BJ
R6GN4A		6.100	0.706	1.27	6.094	0.707	1.45	BJ
SQEM85		5.519	0.125	0.22	5.406	0.020	0.04	BJ
WYLPYE		4.830	-0.564	-1.01	5.679	0.292	0.60	BJ
XD6NA6		5.814	0.420	0.76	6.139	0.752	1.55	BJ
YUXGKM		5.339	-0.055	-0.10	5.089	-0.298	-0.61	BJ
Z4UXH3		5.033	-0.361	-0.65	5.416	0.030	0.06	BG

Summary Statistics

Grand Means

5.3937 Percent

5.3864 Percent

Std Dev Btwn Labs

0.5561 Percent

0.4863 Percent

Statistics based on 18 of 19 reporting participants

Sample D51: PVC & Sample D52: PVC

Comments on assigned Data Flags for Test #785

8EZNN4 (M) - Laboratory did not submit data for Sample D52.

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

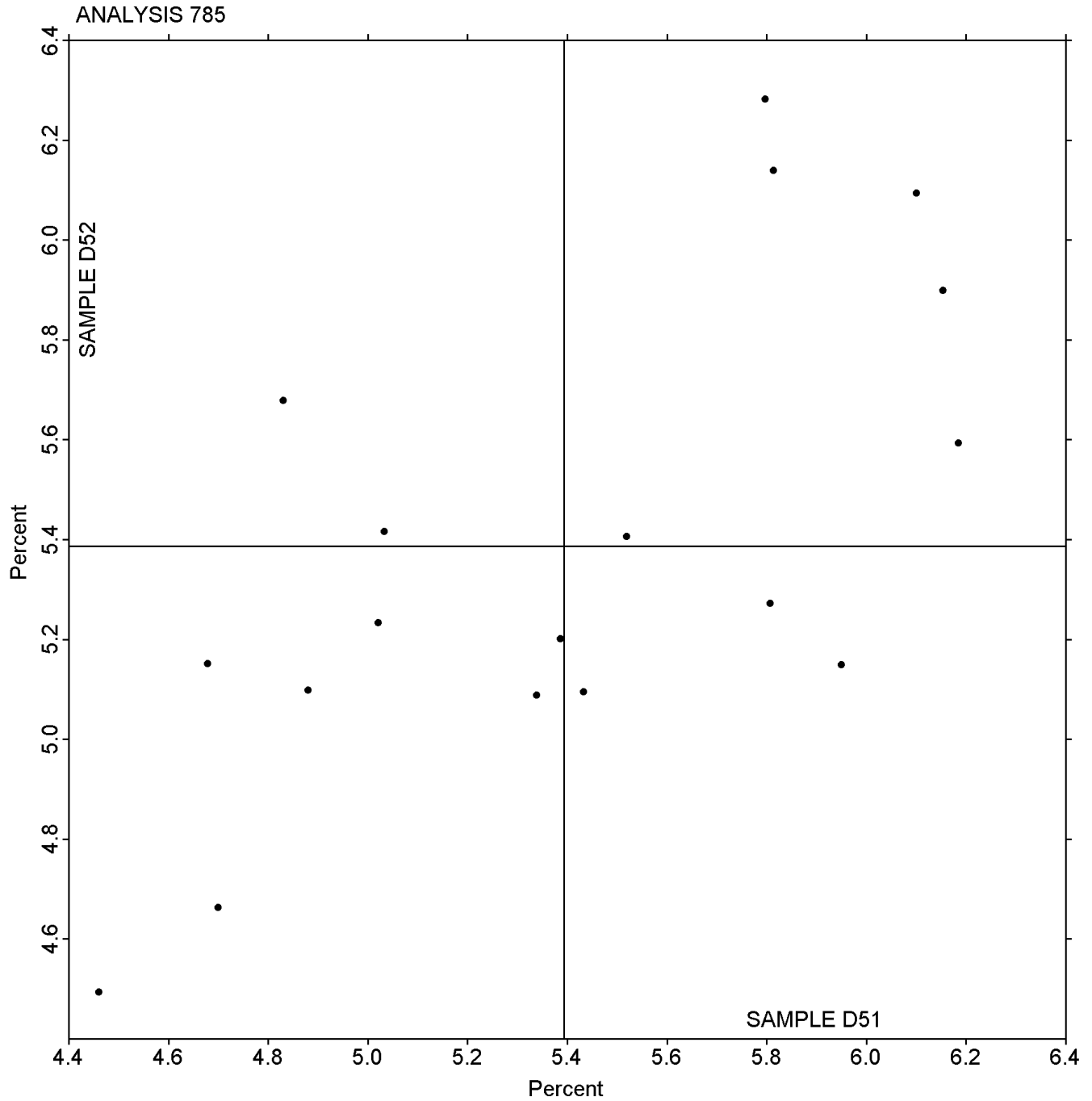
(HC) - Hunterlab ColorQuest

(HL) - Hunterlab Ultrascan XE

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

Plastics Interlaboratory Testing Program
Analysis 785
Percent Haze of Film

Grand Mean Sample D51: 5.3937 Percent Grand Mean Sample D52: 5.3864 Percent



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

**Plastics Interlaboratory Testing Program
Analysis 786**

Total Luminous transmittance of film

WebCode	Data Flag	Sample D51			Sample D52			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1MNCJ8		93.92	0.68	0.69	94.07	0.86	0.85	HC
38BDCG		92.00	-1.24	-1.26	91.90	-1.31	-1.30	HL
63ST7H		93.71	0.47	0.48	93.68	0.47	0.46	BJ
6GMGRF		94.56	1.32	1.34	94.54	1.33	1.32	BJ
ADGG53		93.98	0.73	0.74	93.86	0.65	0.65	BJ
GE2KVV		93.56	0.32	0.32	93.65	0.44	0.44	BJ
JLLD6F		93.85	0.61	0.62	94.11	0.90	0.90	BJ
LUG2QG		94.11	0.87	0.88	94.13	0.92	0.91	BJ
MUVSB8		91.90	-1.35	-1.37	91.90	-1.31	-1.30	HL
NNREBV		93.49	0.24	0.25	93.21	0.00	0.00	BJ
NXS3XH		91.44	-1.81	-1.84	91.39	-1.82	-1.81	BJ
PUQYY7		93.25	0.01	0.01	93.33	0.12	0.11	BJ
RNKQU8		93.85	0.61	0.62	93.69	0.48	0.48	XX
UYKYDP		93.94	0.69	0.71	93.78	0.57	0.56	BG
VBYH5G		93.43	0.18	0.18	93.34	0.13	0.13	XX
X1CG22		92.80	-0.44	-0.45	92.70	-0.51	-0.51	BT
XT7BMS		91.36	-1.88	-1.91	91.31	-1.90	-1.89	BJ

Summary Statistics

Grand Means

93.244 Percent

93.210 Percent

Std Dev Btwn Labs

0.983 Percent

1.005 Percent

Statistics based on 17 of 17 reporting participants

Sample D51: PVC & Sample D52: PVC

Instrument Code List as Reported by the Labs

(BG) - BYK-Gardner/Pacific Scientific

(BJ) - BYK-Gardner Haze-Gard Plus

(BT) - BYK Gardner TCS Plus Spectrophotometer

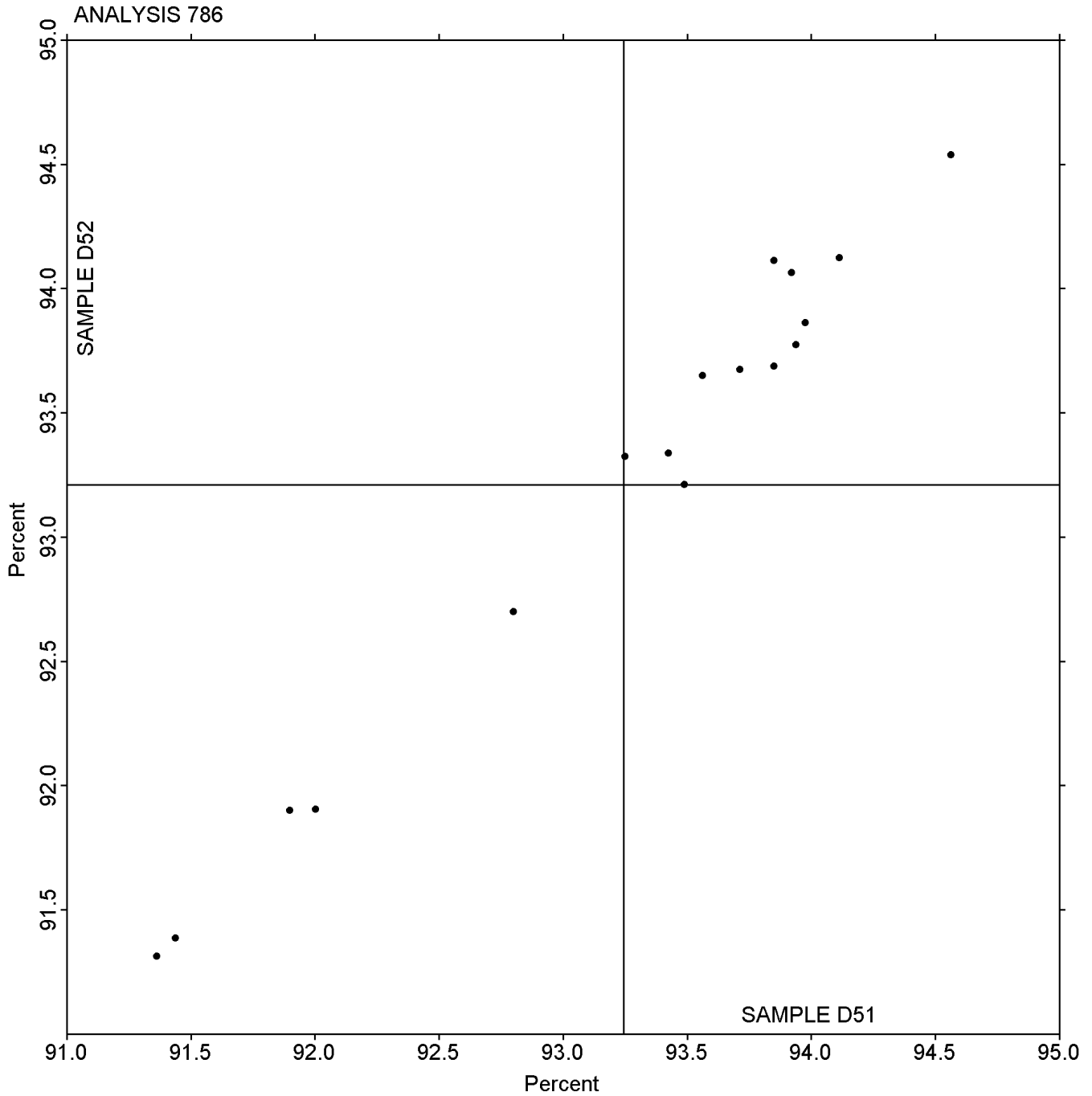
(HC) - Hunterlab ColorQuest

(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 D51: 93.244 Percent Grand Mean Sample D52: 93.210 Percent



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