

Plastics Interlaboratory Testing Program

Web Summary Report #58, 2nd Qtr 2006

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Analysis Analysis Name

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About CTS and the Plastics Interlaboratory Program

Founded in 1971, Collaborative Testing Services, Inc. (CTS) is a privately-owned company that specializes in interlaboratory tests for a wide variety of industries, including rubber, plastics, fasteners and metals, containerboard, paper, color and wine, as well as proficiency tests for forensic laboratories. All of the tests are designed to assist organizations in achieving and maintaining quality control objectives. Labs from the U.S., as well as more than 50 countries currently participate in CTS programs.

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

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

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

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Key for Web Summary Report (Page 1 of 2)

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

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

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

Common Problems Highlighted in Footnotes

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

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

Results Summary for Web Summary Report #58

Plastics Interlaboratory Testing Program

Analysis 704 - Tensile Stress at Yield

Material: HIPS	Sample F53	4,307.32	psi	3.44% COV
	Sample F54	4,304.83	psi	3.51% COV

Analysis 705 - Tensile Stress at Break

Material: HIPS	Sample F53	3,334.52	psi	3.63% COV
	Sample F54	3,333.85	psi	4.22% COV

Analysis 706 - Percent Elongation at Yield

Material: HIPS	Sample F53	1.5385	Percent	7.99% COV
	Sample F54	1.5298	Percent	8.87% COV

Analysis 708 - Modulus of Elasticity

Material: HIPS	Sample F53	328.94	ksi	6.86% COV
	Sample F54	329.62	ksi	7.29% COV

Analysis 730 - Tensile Stress at Yield, ISO Method

Material: HIPS	Sample C53	29.456	MPa	3.15% COV
	Sample C54	29.461	MPa	3.23% COV

Analysis 731 - Tensile Stress at Break, ISO Method

Material: HIPS	Sample C53	22.148	MPa	2.85% COV
	Sample C54	21.946	MPa	2.21% COV

Analysis 732 - Strain at Yield, ISO Method

Material: HIPS	Sample C53	1.5160	Percent	6.55% COV
	Sample C54	1.5236	Percent	6.51% COV

Analysis 734 - Modulus of Elasticity, ISO Method

Material: HIPS	Sample C53	2,173.12	MPa	6.26% COV
	Sample C54	2,181.65	MPa	5.23% COV

Analysis 720 - Flexural Modulus

Material: ABS/PC	Sample J53	422.05	ksi	3.95% COV
	Sample J54	365.09	ksi	3.97% COV

Analysis 721 - Flexural Stress at 5% Strain

Material: ABS/PC	Sample J53	14,320.53	psi	3.48% COV
	Sample J54	12,658.83	psi	3.11% COV

Analysis 722 - Flexural Stress at Yield

Material: ABS/PC	Sample J53	14,235.60	psi	3.70% COV
	Sample J54	12,607.91	psi	3.79% COV

Analysis 736 - Flexural Modulus

Material: HIPS	Sample K53	2,239.87	MPa	4.36% COV
	Sample K54	2,223.13	MPa	4.38% COV

Analysis 737 - Flexural Stress at 3.5% Strain

Material: HIPS	Sample K53	46.141	MPa	3.02% COV
	Sample K54	45.310	MPa	2.74% COV

Results Summary for Web Summary Report #58

Plastics Interlaboratory Testing Program

Analysis 738 - Flexural Stress at Yield

Material: HIPS	Sample K53	46.150	MPa	3.58% COV
	Sample K54	45.365	MPa	3.51% COV

Analysis 790 - Notched Izod Impact

Material: ABS/PC	Sample S53	2.9019	ft.lbf/in	18.8% COV
	Sample S54	9.9616	ft.lbf/in	6.76% COV

Analysis 792 - Notched Charpy Impact

Material: HIPS	Sample M53	23.081	kJ/m ²	6.28% COV
	Sample M54	22.731	kJ/m ²	6.41% COV

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

Material: ABS/PC	Sample E53	78.256	Degrees C	1.39% COV
	Sample E54	100.93	Degrees C	1.61% COV

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

Material: PP	Sample G53	114.17	Degrees C	2.42% COV
	Sample G54	95.085	Degrees C	2.91% COV

Analysis 712 - Temperature of Deflection (1.80 MPa)

Material: HIPS	Sample N53	77.544	Degrees C	1.30% COV
	Sample N54	78.648	Degrees C	1.34% COV

Analysis 715 - Vicat Temperature (Rate A)

Material: ABS/PC	Sample H53	99.771	Degrees C	0.893% COV
	Sample H54	136.08	Degrees C	0.608% COV

Analysis 716 - Vicat Temperature (Rate B)

Material: ABS/PC	Sample R53	102.29	Degrees C	0.926% COV
	Sample R54	138.15	Degrees C	0.689% COV

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

Material: PP	Sample X53	10.618	grams/10 mins	6.23% COV
	Sample X54	14.216	grams/10 mins	6.22% COV

Analysis 718 - Specific Gravity

Material: ABS/PC	Sample T53	1.1845	sp gr 23/23 C	0.226% COV
	Sample T54	1.1316	sp gr 23/23 C	0.213% COV

Analysis 757 - Ash Content

Material: PP	Sample L53	31.379	Percent	0.618% COV
	Sample L54	39.830	Percent	0.384% COV

Analysis 770 - Tensile Stress at Yield, Films

Material: LDPE	Sample B53	1,854.05	psi	13.5% COV
	Sample B54	1,972.43	psi	23.6% COV

Analysis 771 - Tensile Stress at Break, Films

Material: LDPE	Sample B53	4,162.05	psi	9.13% COV
	Sample B54	4,114.30	psi	12.7% COV

Results Summary for Web Summary Report #58

Plastics Interlaboratory Testing Program

Analysis 772 - Elongation at Yield, Films

Material: LDPE	Sample B53	10.673	Percent	31.0% COV
	Sample B54	37.182	Percent	91.9% COV

Analysis 773 - Elongation at Break, Films

Material: LDPE	Sample B53	123.46	Percent	16.5% COV
	Sample B54	596.65	Percent	19.8% COV

Analysis 774 - Thickness of Film Specimens

Material: LDPE	Sample B53	1.3283	mils	6.12% COV
	Sample B54	1.9561	mils	4.34% COV

Analysis 775 - Secant Modulus at 1% Strain

Material: LDPE	Sample B53	40,303.07	psi	12.8% COV
	Sample B54	34,076.81	psi	20.2% COV

Analysis 776 - Secant Modulus at 2% Strain

Material: LDPE	Sample B53	39,681.53	psi	20.7% COV
	Sample B54	32,369.75	psi	21.4% COV

Analysis 780 - Static Friction

Material: LDPE	Sample P53	0.21679	COF	10.7% COV
	Sample P54	0.19956	COF	18.8% COV

Analysis 781 - Kinetic Friction

Material: LDPE	Sample P53	0.19155	COF	10.3% COV
	Sample P54	0.14117	COF	15.0% COV

Analysis 782 - Tear Resistance of Film

Material: LDPE	Sample Q53	414.79	grams-force	21.8% COV
	Sample Q54	45.770	grams-force	22.6% COV

Analysis 785 - Percent Haze

Material: LDPE	Sample D53	12.478	Percent	7.49% COV
	Sample D54	12.721	Percent	6.97% COV

Analysis 786 - Total Transmittance

Material: LDPE	Sample D53	92.876	Percent	1.18% COV
	Sample D54	93.145	Percent	1.13% COV

Analysis 704

Tensile Stress at Yield - psi

WebCode	Data Flag	Sample F53			Sample F54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1AJPT5		4,174.2	-133.1	-0.90	4,127.8	-177.0	-1.17
1ARVPS		4,325.6	18.3	0.12	4,341.4	36.6	0.24
21DZPY	X	2,244.2	-2,063.1	-13.91	2,398.6	-1,906.2	-12.63
2FV9R8		4,105.2	-202.1	-1.36	4,074.8	-230.0	-1.52
2G2QTK		4,270.6	-36.7	-0.25	4,275.4	-29.4	-0.19
3L7BTW		4,537.4	230.1	1.55	4,552.2	247.4	1.64
3QW2U8		4,128.4	-178.9	-1.21	4,044.0	-260.9	-1.73
4KFG1M		4,335.2	27.9	0.19	4,251.2	-53.6	-0.36
549EG6		4,495.8	188.5	1.27	4,483.4	178.6	1.18
5BARFP		4,436.0	128.7	0.87	4,502.0	197.2	1.31
5PHZCS		4,504.4	197.1	1.33	4,535.0	230.2	1.53
84J1HP		4,272.2	-35.2	-0.24	4,245.4	-59.4	-0.39
93QCX8		4,284.0	-23.3	-0.16	4,342.0	37.2	0.25
96VW11		4,130.0	-177.3	-1.20	4,236.0	-68.8	-0.46
9J2GG2		4,223.8	-83.5	-0.56	4,329.7	24.9	0.16
9TFNSH		4,362.6	55.3	0.37	4,246.0	-58.8	-0.39
A55K56		4,130.0	-177.3	-1.20	4,215.6	-89.2	-0.59
A9JQV8		4,400.0	92.7	0.62	4,405.9	101.1	0.67
ABCT4N		4,440.5	133.2	0.90	4,420.8	116.0	0.77
AJZJXP	*	4,550.8	243.5	1.64	4,405.4	100.6	0.67
AV8GEJ		4,181.4	-125.9	-0.85	4,160.0	-144.8	-0.96
BYTB5H		4,374.2	66.9	0.45	4,343.8	39.0	0.26
C4DZ7S		4,516.6	209.3	1.41	4,445.8	141.0	0.93
C6KBZ1		4,359.0	51.7	0.35	4,349.6	44.8	0.30
C6MYFE		4,454.8	147.5	0.99	4,399.8	95.0	0.63
CGBK5B	X	4,873.2	565.8	3.81	4,896.0	591.1	3.92
DJ223R		4,472.0	164.7	1.11	4,527.3	222.4	1.47
DKDEMY	*	4,013.6	-293.7	-1.98	4,173.6	-131.2	-0.87
DZNP8E		4,362.6	55.3	0.37	4,473.0	168.2	1.11
E6EK8W	*	4,090.8	-216.5	-1.46	3,961.6	-343.2	-2.27
E9V3YT		4,377.4	70.1	0.47	4,418.6	113.8	0.75
EBM1HT		4,438.2	130.9	0.88	4,409.2	104.4	0.69

Analysis 704

Tensile Stress at Yield - psi

WebCode	Data Flag	Sample F53			Sample F54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
ECQWPP		4,449.8	142.5	0.96	4,406.3	101.5	0.67
EFE9HT		4,155.0	-152.3	-1.03	4,265.4	-39.4	-0.26
EJQLXF		4,260.4	-46.9	-0.32	4,245.6	-59.2	-0.39
F6PGR2		4,332.2	24.9	0.17	4,386.6	81.8	0.54
FB8C3H		4,201.8	-105.5	-0.71	4,274.0	-30.8	-0.20
H9G1EW		4,458.8	151.5	1.02	4,428.2	123.4	0.82
HZGA9G		4,411.0	103.7	0.70	4,424.6	119.8	0.79
J7KBP3	X	3,762.6	-544.7	-3.67	3,785.8	-519.0	-3.44
JVF38Y		4,482.4	175.1	1.18	4,440.8	136.0	0.90
KE3VR7		4,243.8	-63.5	-0.43	4,269.9	-34.9	-0.23
KM3SUH		4,467.2	159.9	1.08	4,423.7	118.9	0.79
MBMNUR		4,447.6	140.3	0.95	4,377.3	72.5	0.48
NKEZ3R	*	4,712.0	404.7	2.73	4,694.2	389.4	2.58
NSFPR3		4,360.2	52.9	0.36	4,365.2	60.4	0.40
P2C6PH		4,374.0	66.7	0.45	4,315.6	10.8	0.07
PB28B7		4,266.0	-41.3	-0.28	4,358.0	53.2	0.35
PS48LU	*	4,138.9	-168.4	-1.14	3,999.8	-305.0	-2.02
Q15EZN		4,300.8	-6.5	-0.04	4,310.0	5.2	0.03
Q71182		4,084.6	-222.7	-1.50	4,092.4	-212.4	-1.41
Q9PQD1	X	3,548.6	-758.7	-5.11	3,702.8	-602.0	-3.99
QDKGMX		4,394.4	87.1	0.59	4,367.6	62.8	0.42
QZYNUY		4,296.9	-10.4	-0.07	4,245.3	-59.5	-0.39
R3ZEVQ		4,436.6	129.3	0.87	4,490.2	185.4	1.23
R94D81		4,436.2	128.9	0.87	4,441.4	136.6	0.90
RV39VF		4,235.1	-72.2	-0.49	4,221.8	-83.0	-0.55
S87XGH	*	4,021.9	-285.4	-1.92	3,901.0	-403.9	-2.68
SK1Q9K		4,545.2	237.9	1.60	4,508.4	203.6	1.35
SQRYMY		4,292.4	-14.9	-0.10	4,356.8	52.0	0.34
SYJF62		4,389.8	82.5	0.56	4,461.0	156.2	1.03
TR5TVC		4,151.2	-156.1	-1.05	4,066.0	-238.8	-1.58
TUNFFS		4,296.6	-10.7	-0.07	4,298.0	-6.8	-0.05
U3VEN8		4,445.5	138.2	0.93	4,421.5	116.7	0.77

**Plastics Interlaboratory Testing Program
Analysis 704**

Tensile Stress at Yield - psi

WebCode	Data Flag	Sample F53			Sample F54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
U69R42		4,345.0	37.7	0.25	4,339.0	34.2	0.23
U93SU7		4,440.8	133.5	0.90	4,436.2	131.4	0.87
UATXAX		4,330.0	22.7	0.15	4,310.3	5.4	0.04
UXM3M1		4,229.8	-77.5	-0.52	4,166.6	-138.2	-0.92
UZNAHY		4,252.4	-54.9	-0.37	4,255.2	-49.6	-0.33
V361TF		4,130.7	-176.6	-1.19	4,151.0	-153.8	-1.02
WF8F6H		4,324.8	17.5	0.12	4,293.7	-11.1	-0.07
WN3VKP		4,307.7	0.3	0.00	4,296.1	-8.8	-0.06
X7SD9F		4,248.4	-58.9	-0.40	4,231.6	-73.2	-0.49
XBAGAJ	X	4,408.8	101.5	0.68	4,023.8	-281.0	-1.86
XFAEAC		4,147.2	-160.1	-1.08	4,157.0	-147.8	-0.98
XQWTZ1		4,179.3	-128.0	-0.86	4,185.0	-119.9	-0.79
XS68DE		4,071.8	-235.5	-1.59	4,096.2	-208.6	-1.38
Y536XJ		4,327.4	20.1	0.14	4,328.8	24.0	0.16
Y987EE		4,316.8	9.5	0.06	4,336.8	32.0	0.21
YHW31N	*	3,900.0	-407.3	-2.75	3,940.0	-364.8	-2.42
YJYN9A	X	4,351.2	43.9	0.30	4,119.1	-185.7	-1.23
YS514E		4,215.8	-91.5	-0.62	4,218.0	-86.8	-0.58
Z6XK5E		4,171.3	-136.0	-0.92	4,174.2	-130.6	-0.87
Z8H9VE	X	4,276.4	-30.9	-0.21	4,574.6	269.8	1.79
ZB7EQX		4,196.0	-111.3	-0.75	4,308.0	3.2	0.02

Summary Statistics

Grand Means

4,307.32 psi

4,304.83 psi

Std Dev Btwn Labs

148.35 psi

150.92 psi

Statistics based on 78 of 85 reporting participants

Sample F53: HIPS & Sample F54: HIPS

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

Comments on assigned Data Flags for Test #704

21DZPY (X) - Data for both samples are low.

CGBK5B (X) - Data for both samples are low.

J7KBP3 (X) - Data for both samples are low.

Q9PCD1 (X) - Data for both samples are low.

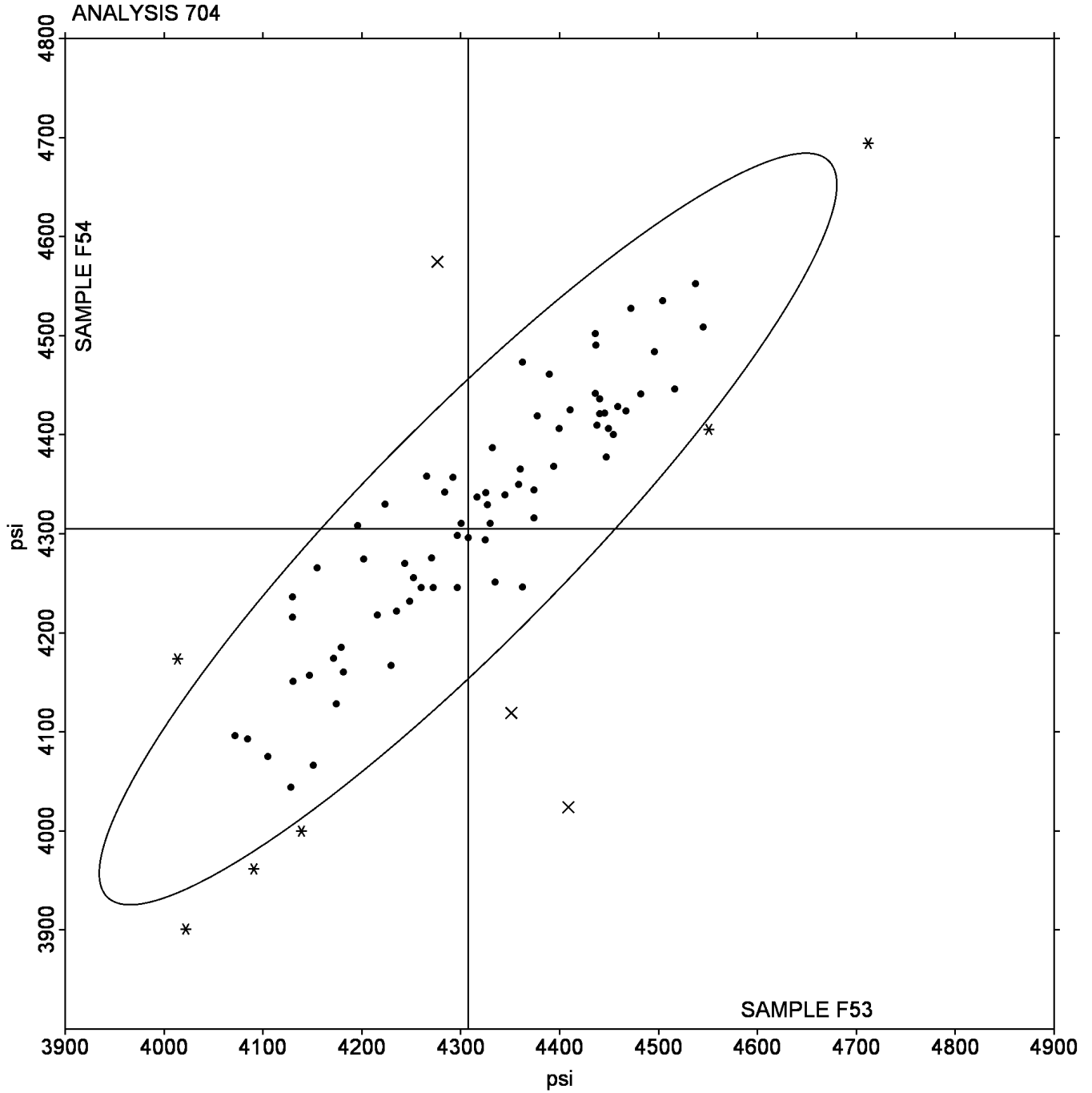
XBAGAJ (X) - Inconsistent in testing between samples.

YJYN9A (X) - Inconsistent in testing between samples.

Z8H9VE (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F53.

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

Grand Mean Sample F53: 4,307.32 psi Grand Mean Sample F54: 4,304.83 psi



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

Analysis 705

Tensile Stress at Break - psi

WebCode	Data Flag	Sample F53			Sample F54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1WGX7Z		3,204.4	-130.1	-1.08	3,220.0	-113.9	-0.81
1WPU4J		3,509.0	174.5	1.44	3,489.5	155.6	1.11
2H61BA		3,148.2	-186.3	-1.54	3,187.8	-146.1	-1.04
2UM75D		3,344.6	10.1	0.08	3,341.2	7.3	0.05
3FFLD8		3,310.1	-24.4	-0.20	3,377.7	43.8	0.31
48NTBE	*	3,240.5	-94.1	-0.78	3,007.5	-326.3	-2.32
4FDPJ9		3,166.8	-167.7	-1.39	3,224.6	-109.3	-0.78
4H5NX7		3,190.9	-143.7	-1.19	3,074.8	-259.0	-1.84
5F4BCY		3,459.4	124.9	1.03	3,584.2	250.3	1.78
5UCYY2		3,334.8	0.3	0.00	3,367.0	33.1	0.24
643AZS		3,332.0	-2.5	-0.02	3,329.0	-4.9	-0.03
64M5LN		3,396.2	61.7	0.51	3,440.8	106.9	0.76
71U6EX		3,304.0	-30.5	-0.25	3,298.2	-35.7	-0.25
88F4AR		3,269.2	-65.3	-0.54	3,434.5	100.7	0.72
988DRL	X	1,622.2	-1,712.3	-14.15	1,539.0	-1,794.9	-12.76
98AR77		3,159.4	-175.1	-1.45	3,283.6	-50.3	-0.36
98REHU		3,368.0	33.5	0.28	3,323.1	-10.8	-0.08
9M5JT3		3,284.8	-49.7	-0.41	3,291.1	-42.7	-0.30
AWTBWS		3,353.3	18.8	0.16	3,304.0	-29.9	-0.21
C4J3AJ		3,322.0	-12.5	-0.10	3,356.0	22.1	0.16
C5DRMM		3,567.0	232.5	1.92	3,438.6	104.7	0.74
DBFS9E		3,313.2	-21.3	-0.18	3,294.4	-39.5	-0.28
DHU467		3,328.8	-5.8	-0.05	3,261.0	-72.8	-0.52
DYMQXT		3,387.6	53.1	0.44	3,349.6	15.7	0.11
E2A2BA		3,328.6	-5.9	-0.05	3,347.2	13.3	0.09
E3AXDE		3,212.1	-122.4	-1.01	3,085.0	-248.9	-1.77
G5CGEK		3,420.0	85.5	0.71	3,425.8	91.9	0.65
H5GQJW		3,559.8	225.3	1.86	3,450.4	116.5	0.83
HCESV3	*	3,691.8	357.3	2.95	3,631.6	297.7	2.12
HGJSFE	X	2,765.3	-569.2	-4.70	3,073.0	-260.8	-1.85
HXULXG		3,354.2	19.7	0.16	3,368.1	34.2	0.24
JPPTY1		3,398.8	64.3	0.53	3,382.2	48.3	0.34

Analysis 705

Tensile Stress at Break - psi

WebCode	Data Flag	Sample F53			Sample F54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
KCB2LR		3,188.6	-145.9	-1.21	3,216.2	-117.7	-0.84
KJ4HV3		3,277.9	-56.6	-0.47	3,234.4	-99.5	-0.71
KN8V4E		3,386.4	51.9	0.43	3,431.8	97.9	0.70
KXT3SJ	X	4,308.2	973.7	8.05	4,263.2	929.3	6.61
L8G71W		3,386.2	51.7	0.43	3,479.4	145.5	1.03
LJRCLQ		3,198.7	-135.8	-1.12	3,111.1	-222.8	-1.58
LV3T3V		3,338.2	3.7	0.03	3,341.4	7.5	0.05
M19K51		3,103.0	-231.5	-1.91	3,137.8	-196.1	-1.39
M29JH7		3,439.6	105.1	0.87	3,620.0	286.1	2.03
N39MG3		3,251.8	-82.7	-0.68	3,207.4	-126.5	-0.90
PPF4XW		3,269.8	-64.7	-0.53	3,304.4	-29.5	-0.21
PJMUD5		3,462.8	128.3	1.06	3,521.0	187.1	1.33
RNKZAZ		3,267.2	-67.3	-0.56	3,263.0	-70.9	-0.50
RSZEBC		3,332.4	-2.1	-0.02	3,320.5	-13.3	-0.09
SAPZ6A		3,356.2	21.7	0.18	3,289.5	-44.4	-0.32
SG1EDK		3,538.4	203.9	1.68	3,404.4	70.5	0.50
SNS7MM		3,308.4	-26.1	-0.22	3,311.4	-22.5	-0.16
SXVT3E		3,480.9	146.4	1.21	3,422.9	89.1	0.63
T1A2SK		3,580.0	245.5	2.03	3,631.4	297.5	2.12
T574V5		3,303.1	-31.4	-0.26	3,207.1	-126.8	-0.90
T586EH		3,391.0	56.5	0.47	3,350.4	16.5	0.12
T72RM2	X	4,343.1	1,008.6	8.34	4,436.1	1,102.3	7.84
TDY8N1		3,327.6	-6.9	-0.06	3,515.4	181.5	1.29
TQR6CX	X	2,896.4	-438.1	-3.62	2,997.4	-336.5	-2.39
TUNB8A		3,444.6	110.1	0.91	3,450.9	117.1	0.83
V67AUA		3,248.4	-86.1	-0.71	3,247.4	-86.5	-0.61
VCQ4NF	X	2,894.6	-439.9	-3.64	3,071.2	-262.7	-1.87
VUAUKU		3,222.2	-112.3	-0.93	3,216.6	-117.3	-0.83
WSHYXL	*	3,171.6	-162.9	-1.35	3,402.4	68.5	0.49
WUS1SX		3,271.6	-62.9	-0.52	3,228.6	-105.3	-0.75
X7A6EK	*	3,368.5	34.0	0.28	3,148.4	-185.5	-1.32
XFK7HC	*	3,034.2	-300.3	-2.48	2,996.5	-337.3	-2.40

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

WebCode	Data Flag	Sample F53			Sample F54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
XJV DAT		3,349.2	14.7	0.12	3,380.3	46.4	0.33
XQA5GS		3,273.5	-61.0	-0.50	3,275.9	-58.0	-0.41
Y24U2J		3,361.1	26.6	0.22	3,416.2	82.4	0.59
Y8PW BV		3,494.0	159.5	1.32	3,590.0	256.1	1.82
YEXS5N		3,340.0	5.5	0.05	3,380.0	46.1	0.33
ZRK8JN		3,382.6	48.1	0.40	3,344.0	10.1	0.07

Summary Statistics

Grand Means

3,334.52 psi

3,333.85 psi

Std Dev Btwn Labs

121.00 psi

140.68 psi

Statistics based on 64 of 70 reporting participants

Sample F53: HIPS & Sample F54: HIPS

Comments on assigned Data Flags for Test #705

988DRL (X) - Data for both samples are low.

HGJSFE (X) - Inconsistent in testing between samples, data for Sample F53 are low. Also inconsistent in testing within both sample sets.

KXT3SJ (X) - Data for both samples are high.

T72RM2 (X) - Data for both samples are high.

TQR6CX (X) - Inconsistent in testing between samples, data for Sample F53 are low.

VCQ4NF (X) - Inconsistent in testing between samples, data for Sample F53 are low. Also inconsistent in testing within both sample sets.

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

Grand Mean Sample F53: 3,334.52 psi Grand Mean Sample F54: 3,333.85 psi



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

Plastics Interlaboratory Testing Program
Analysis 706

Percent Elongation at Yield - Percent

WebCode	Data Flag	Sample F53			Sample F54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1QN5DJ	*	1.450	-0.089	-0.72	1.584	0.054	0.40
1WJR2S		1.550	0.011	0.09	1.492	-0.038	-0.28
2F9U6B		1.576	0.037	0.31	1.580	0.050	0.37
33BZ6G		1.390	-0.149	-1.21	1.302	-0.228	-1.68
36JW8Y		1.520	-0.019	-0.15	1.486	-0.044	-0.32
38M9HE		1.560	0.021	0.17	1.606	0.076	0.56
3TVGXP		1.428	-0.111	-0.90	1.376	-0.154	-1.13
4BFLLQ	X	4.034	2.495	20.31	4.254	2.724	20.07
4SFV31		1.652	0.113	0.92	1.664	0.134	0.99
51CBRQ		1.584	0.045	0.37	1.578	0.048	0.36
6Q83M7	X	4.134	2.595	21.12	4.174	2.644	19.48
74QVPQ		1.551	0.012	0.10	1.623	0.093	0.69
7J45JS		1.586	0.047	0.39	1.594	0.064	0.47
7QXED5		1.444	-0.095	-0.77	1.420	-0.110	-0.81
7VVWP4		1.500	-0.039	-0.31	1.492	-0.038	-0.28
8PMGGM	X	5.230	3.691	30.04	5.160	3.630	26.74
966VN4		1.588	0.049	0.40	1.598	0.068	0.50
9GGHPP		1.624	0.085	0.70	1.682	0.152	1.12
9PE75T		1.558	0.019	0.16	1.536	0.006	0.05
9XBXU9		1.704	0.165	1.35	1.730	0.200	1.47
ACXAFA		1.654	0.115	0.94	1.536	0.006	0.05
AQSZUT		1.514	-0.025	-0.20	1.518	-0.012	-0.09
ARF7Q5		1.542	0.003	0.03	1.512	-0.018	-0.13
AURDGJ		1.724	0.185	1.51	1.718	0.188	1.39
B36EUZ		1.292	-0.247	-2.01	1.288	-0.242	-1.78
BHBTNP		1.374	-0.165	-1.34	1.374	-0.156	-1.15
BV39X9		1.628	0.089	0.73	1.620	0.090	0.66
C1Y5SU		1.654	0.115	0.94	1.620	0.090	0.66
D4GNJ4		1.586	0.047	0.39	1.610	0.080	0.59
DRP1E4		1.472	-0.067	-0.54	1.578	0.048	0.36
DXWHYQ		1.598	0.059	0.48	1.592	0.062	0.46
ES2LLQ	*	1.488	-0.051	-0.41	1.318	-0.212	-1.56

Plastics Interlaboratory Testing Program
Analysis 706

Percent Elongation at Yield - Percent

WebCode	Data Flag	Sample F53			Sample F54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
EXKM4G		1.520	-0.019	-0.15	1.498	-0.032	-0.23
FDXMBY		1.460	-0.079	-0.64	1.524	-0.006	-0.04
FVZYTU		1.688	0.149	1.22	1.688	0.158	1.17
GYRKSH	*	1.876	0.337	2.75	1.834	0.304	2.24
K7UR68		1.358	-0.181	-1.47	1.292	-0.238	-1.75
KYSTRR	X	1.552	0.013	0.11	1.328	-0.202	-1.49
N2YCDP	X	4.160	2.621	21.33	4.120	2.590	19.08
NTDUNP		1.406	-0.133	-1.08	1.490	-0.040	-0.29
NWKBYS		1.580	0.041	0.34	1.574	0.044	0.32
PHWHZJ		1.586	0.047	0.39	1.598	0.068	0.50
PX5JAM		1.482	-0.057	-0.46	1.474	-0.056	-0.41
PZ5H1Z		1.512	-0.027	-0.22	1.412	-0.118	-0.87
Q6PJT3		1.588	0.049	0.40	1.559	0.029	0.22
QLD8RZ		1.478	-0.061	-0.49	1.448	-0.082	-0.60
QQGB5M		1.610	0.071	0.58	1.574	0.044	0.33
R2BE28		1.634	0.095	0.78	1.668	0.138	1.02
RK6PN3		1.512	-0.027	-0.22	1.570	0.040	0.30
SBLGER		1.601	0.062	0.51	1.610	0.080	0.59
SZGKTX		1.388	-0.151	-1.22	1.336	-0.194	-1.43
TB4H4E		1.270	-0.269	-2.19	1.262	-0.268	-1.97
TCYA4S		1.742	0.203	1.66	1.746	0.216	1.59
VZ4KHR		1.752	0.213	1.74	1.678	0.148	1.09
WHMC4E		1.494	-0.045	-0.36	1.508	-0.022	-0.16
X293ED	X	2.801	1.262	10.27	3.118	1.588	11.70
X81JPQ	*	1.180	-0.359	-2.92	1.140	-0.390	-2.87
XC54ZU		1.534	-0.005	-0.04	1.516	-0.014	-0.10
YBEXK4		1.586	0.048	0.39	1.605	0.075	0.55
YHEFYF		1.498	-0.041	-0.33	1.514	-0.016	-0.12
YVFGSJ	X	3.100	1.561	12.71	1.250	-0.280	-2.06
Z87QJ4		1.577	0.038	0.31	1.592	0.063	0.46
ZKUCHY		1.454	-0.085	-0.69	1.332	-0.198	-1.46

Percent Elongation at Yield - Percent

Summary Statistics**Grand Means**

1.5385 Percent

1.5298 Percent

Std Dev Btwn Labs

0.1229 Percent

0.1358 Percent

Statistics based on 56 of 63 reporting participants

Sample F53: HIPS & Sample F54: HIPS

Comments on assigned Data Flags for Test #706

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

6Q83M7 (X) - Data for both samples are high.

8PMGGM (X) - Data for both samples are high.

KYSTRR (X) - Inconsistent in testing between samples.

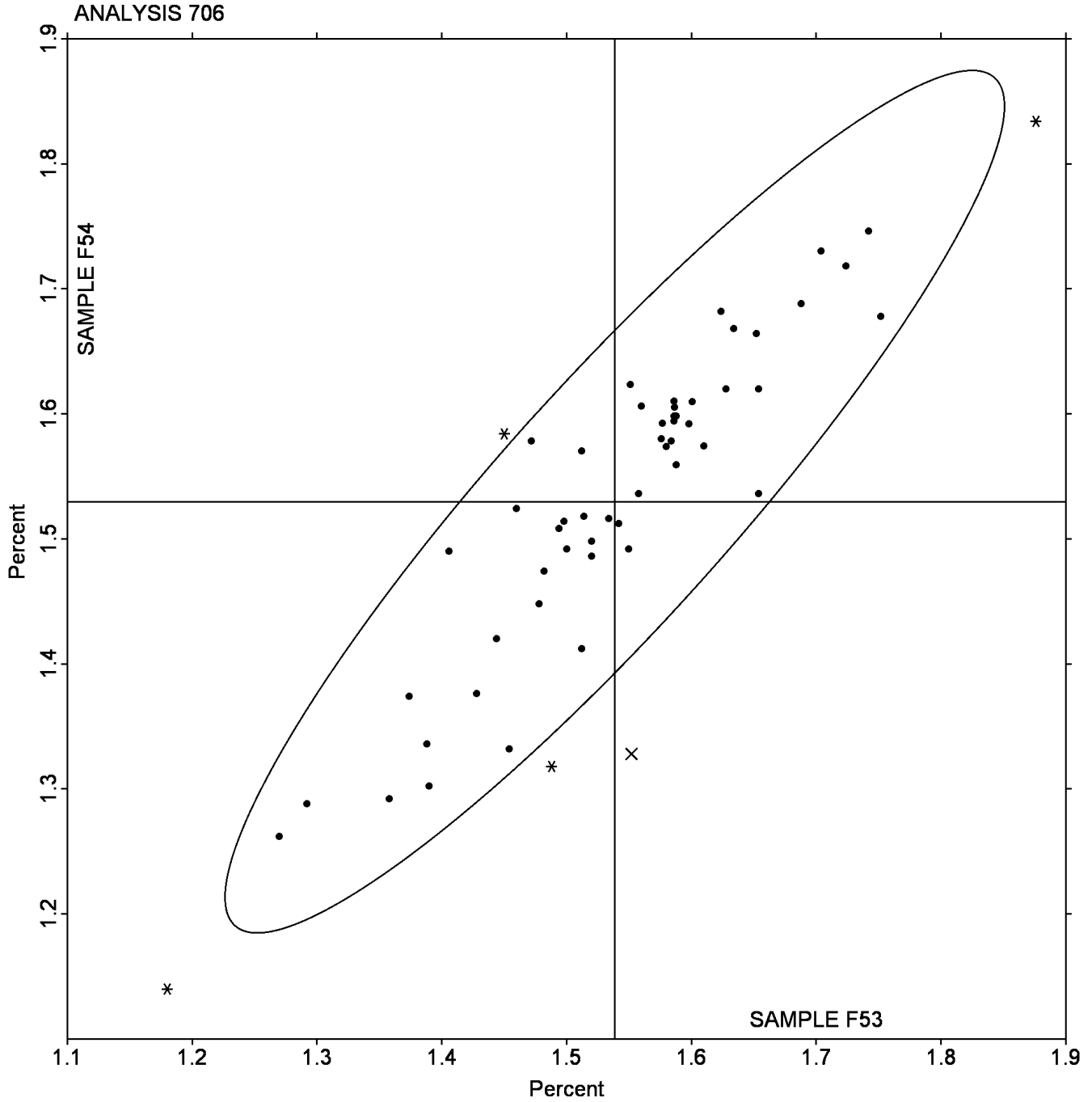
N2YCDP (X) - Data for both are high.

X293ED (X) - Data for both samples are high.

YVFGSJ (X) - Inconsistent in testing between samples, data for Sample F53 are high. Also inconsistent in testing within both sample sets.

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

Grand Mean Sample F53: 1.5385 Percent Grand Mean Sample F54: 1.5298 Percent



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

Plastics Interlaboratory Testing Program
Analysis 708
Modulus of Elasticity - ksi

WebCode	Data Flag	Sample F53			Sample F54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1CDJZS		328.46	-0.48	-0.02	328.37	-1.25	-0.05
1FEPCC		330.34	1.41	0.06	306.66	-22.96	-0.96
33L1KA		305.88	-23.06	-1.02	310.04	-19.58	-0.82
34GHTR		358.10	29.17	1.29	374.03	44.41	1.85
3QZ11H		345.40	16.46	0.73	353.60	23.98	1.00
3SXTHU	X	414.34	85.40	3.79	459.42	129.80	5.40
4DHC8N		343.52	14.58	0.65	344.18	14.56	0.61
4KQRCS		361.04	32.10	1.42	348.31	18.69	0.78
4PEB2E		310.44	-18.50	-0.82	308.28	-21.34	-0.89
4UWWJ9		334.94	6.00	0.27	332.20	2.58	0.11
5BKECM	*	295.42	-33.52	-1.49	319.54	-10.08	-0.42
5J6TG1		301.99	-26.95	-1.19	302.06	-27.56	-1.15
6KX3XV		347.64	18.71	0.83	344.58	14.96	0.62
6V8M9A		325.44	-3.50	-0.15	330.24	0.62	0.03
777J5B		326.74	-2.20	-0.10	316.92	-12.70	-0.53
96KBT5		310.50	-18.44	-0.82	314.79	-14.83	-0.62
9ERT9W		331.88	2.94	0.13	336.44	6.82	0.28
A6NQ4S		337.66	8.72	0.39	331.20	1.58	0.07
BXPRN3		292.98	-35.96	-1.59	296.58	-33.04	-1.38
CMT8C8		320.13	-8.81	-0.39	322.71	-6.91	-0.29
DLVC8W	X	407.31	78.37	3.47	436.62	107.00	4.45
DNTH5J	X	852.26	523.32	23.20	882.36	552.74	23.01
EG6EQ6		379.94	51.00	2.26	385.52	55.90	2.33
EJUZNN		333.54	4.60	0.20	329.66	0.04	0.00
HCAGQK		349.68	20.74	0.92	353.62	24.00	1.00
HGTMGS	X	192.54	-136.40	-6.05	162.46	-167.16	-6.96
HJQ9FW		319.50	-9.44	-0.42	324.46	-5.16	-0.21
HM38F4		321.00	-7.94	-0.35	328.78	-0.84	-0.03
HPK3R4	*	269.75	-59.19	-2.62	256.53	-73.09	-3.04
HXYYYJ		326.44	-2.50	-0.11	325.86	-3.76	-0.16
J88YSQ		322.42	-6.52	-0.29	323.28	-6.34	-0.26
JTPGKU		341.68	12.74	0.57	340.86	11.24	0.47

Plastics Interlaboratory Testing Program
Analysis 708
Modulus of Elasticity - ksi

WebCode	Data Flag	Sample F53			Sample F54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
K5QYEV		334.01	5.08	0.23	330.45	0.83	0.03
L3QFND		323.68	-5.26	-0.23	322.28	-7.34	-0.31
M9YY2Y		301.90	-27.04	-1.20	303.16	-26.46	-1.10
N1A895		338.46	9.53	0.42	336.64	7.02	0.29
N2VB9X	*	328.10	-0.84	-0.04	356.10	26.48	1.10
NXQ1QP		335.32	6.39	0.28	336.04	6.42	0.27
PXKJ8P		316.00	-12.94	-0.57	313.14	-16.48	-0.69
Q4ZDUK		297.98	-30.95	-1.37	297.96	-31.66	-1.32
Q6SMNM	X	112.86	-216.08	-9.58	115.12	-214.50	-8.93
QS59HD		312.70	-16.23	-0.72	311.06	-18.56	-0.77
RGHZH4		302.40	-26.54	-1.18	304.00	-25.62	-1.07
S8M6JR	*	351.58	22.64	1.00	327.31	-2.30	-0.10
T1531V	X	39.24	-289.69	-12.84	40.74	-288.88	-12.03
U13H4F		335.72	6.78	0.30	336.28	6.66	0.28
U5YS77		336.66	7.72	0.34	347.52	17.90	0.75
UEQMR4		325.00	-3.93	-0.17	325.90	-3.72	-0.15
UVN7PR	*	389.70	60.76	2.69	373.80	44.18	1.84
V1RHZ4	X	257.62	-71.31	-3.16	310.46	-19.16	-0.80
VH7UJG		311.34	-17.60	-0.78	312.01	-17.61	-0.73
WE9HPV		372.12	43.18	1.91	384.52	54.90	2.29
XD2UCG		326.62	-2.32	-0.10	316.08	-13.54	-0.56
YEU798		339.18	10.24	0.45	361.56	31.94	1.33
Z9D4VB	X	313.66	-15.28	-0.68	360.42	30.80	1.28
ZDY444		338.00	9.06	0.40	336.60	6.98	0.29

Summary Statistics

Grand Means

328.936 ksi

329.618 ksi

Std Dev Btwn Labs

22.555 ksi

24.022 ksi

Statistics based on 48 of 56 reporting participants

Sample F53: HIPS & Sample F54: HIPS

Plastics Interlaboratory Testing Program
Analysis 708
Modulus of Elasticity - ksi

Comments on assigned Data Flags for Test #708

3SXTHU (X) - Data for both samples are high.

DLVC8W (X) - Data for both samples are high.

DNTH5J (X) - Data for both samples are high.

HGTMGS (X) - Data for both Samples are low.

O6SMNM (X) - Data for both samples are low.

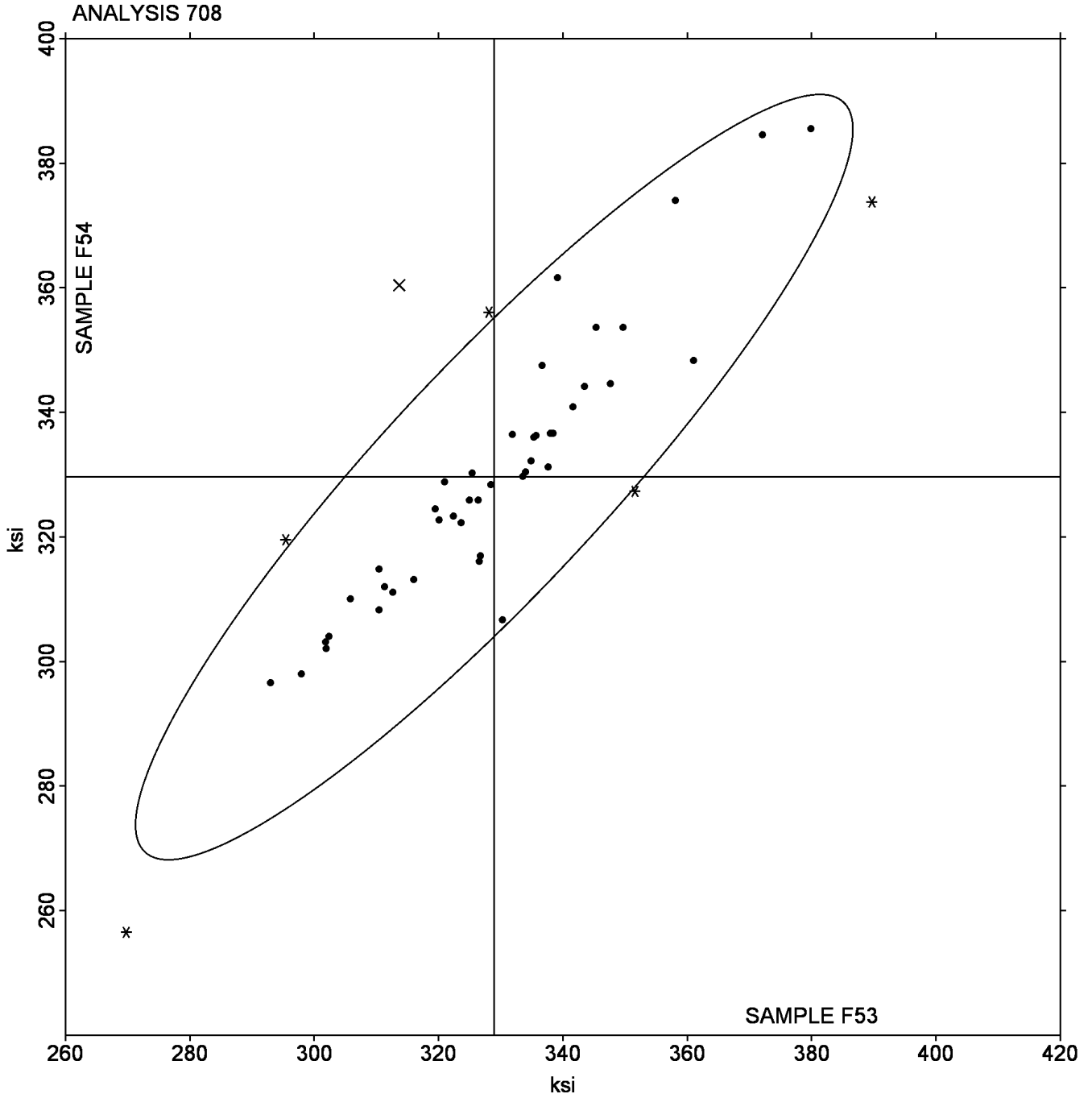
T1531V (X) - Extreme data. Data appear to be off by a factor of 10.

V1RHZ4 (X) - Inconsistent in testing between samples, data for Sample F53 are low. Also inconsistent in testing within Sample F53.

Z9D4VB (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F53.

Plastics Interlaboratory Testing Program
Analysis 708
Modulus of Elasticity - ksi

Grand Mean Sample F53: 328.94 ksi Grand Mean Sample F54: 329.62 ksi



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

Analysis 730

Tensile Stress at Yield - MPa

WebCode	Data Flag	Sample C53			Sample C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
16EY7X		29.59	0.13	0.14	28.95	-0.51	-0.54
1GMLM3		30.18	0.73	0.79	29.88	0.42	0.44
2CZYZ3		28.76	-0.69	-0.75	29.13	-0.33	-0.35
364N6Q		29.11	-0.35	-0.38	28.90	-0.56	-0.59
431PDP	*	32.01	2.55	2.75	32.00	2.54	2.67
4LXNNG		27.85	-1.61	-1.73	28.58	-0.88	-0.93
61DJE4		30.32	0.86	0.93	30.12	0.66	0.69
89PXR3		30.08	0.62	0.67	30.86	1.40	1.47
9FR7XW		28.38	-1.08	-1.16	28.04	-1.42	-1.49
9GDJ49		29.90	0.44	0.48	29.09	-0.37	-0.39
9W371L	*	29.36	-0.10	-0.11	31.05	1.59	1.67
9YTDHW		28.90	-0.56	-0.60	28.90	-0.56	-0.59
AAMHCV		28.62	-0.84	-0.90	29.13	-0.33	-0.35
ATYVNS		29.91	0.45	0.49	29.19	-0.27	-0.28
AYHK48		29.60	0.14	0.15	28.89	-0.57	-0.60
B4P3P1	*	31.83	2.38	2.56	31.95	2.49	2.61
BQGTQA		28.67	-0.78	-0.84	28.61	-0.85	-0.89
C6RHGP		29.71	0.25	0.27	28.87	-0.59	-0.62
DFRSKK		28.42	-1.04	-1.12	28.11	-1.35	-1.41
DHLA1D	*	27.03	-2.43	-2.62	28.61	-0.85	-0.89
DY4TGM		29.94	0.48	0.52	29.39	-0.07	-0.08
JBH6SG		30.44	0.99	1.06	30.66	1.20	1.26
K9KXMZ		30.62	1.16	1.25	30.43	0.97	1.02
KJU7KH		29.02	-0.44	-0.47	29.00	-0.46	-0.48
KKDSNU		29.81	0.36	0.38	29.60	0.14	0.15
LT8UK5		30.24	0.78	0.85	30.06	0.60	0.63
M5KTCX		30.39	0.93	1.01	30.73	1.27	1.33
M5S8VC		29.72	0.27	0.29	29.22	-0.24	-0.25
MYPEM3		29.32	-0.14	-0.15	30.60	1.14	1.20
QAJH3S		29.65	0.19	0.21	29.48	0.02	0.02
QQVDN9		28.30	-1.16	-1.25	29.02	-0.44	-0.46
R5SE67		28.56	-0.89	-0.96	29.58	0.12	0.12

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

WebCode	Data Flag	Sample C53			Sample C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
RAU4BN		28.76	-0.70	-0.75	28.42	-1.04	-1.09
RBGNZD		30.08	0.62	0.67	30.28	0.82	0.86
RWLXQH		29.26	-0.20	-0.21	28.52	-0.94	-0.99
S73DF8		29.98	0.53	0.57	30.34	0.88	0.93
S7ZCCG		29.72	0.26	0.29	29.03	-0.43	-0.45
T5L8W5		29.41	-0.04	-0.04	28.29	-1.17	-1.23
TPFKNW		28.84	-0.62	-0.67	28.16	-1.30	-1.37
UA6DZB		29.59	0.13	0.15	29.53	0.07	0.07
UG664T		30.30	0.84	0.91	29.62	0.16	0.16
V1X345		30.33	0.87	0.94	30.40	0.94	0.99
W7QW76		29.39	-0.06	-0.07	29.58	0.12	0.12
WUMGML		29.14	-0.32	-0.34	30.51	1.05	1.10
X675XL		27.87	-1.58	-1.71	28.87	-0.59	-0.62
XDU12M		29.88	0.42	0.45	29.62	0.16	0.17
XRA6QH		28.96	-0.50	-0.53	28.78	-0.68	-0.72
Y52QQ6		28.43	-1.03	-1.11	28.19	-1.27	-1.33
ZAWUH2		29.17	-0.28	-0.31	28.82	-0.64	-0.67

Summary Statistics

Grand Means

29.456 MPa

29.461 MPa

Std Dev Btwn Labs

0.927 MPa

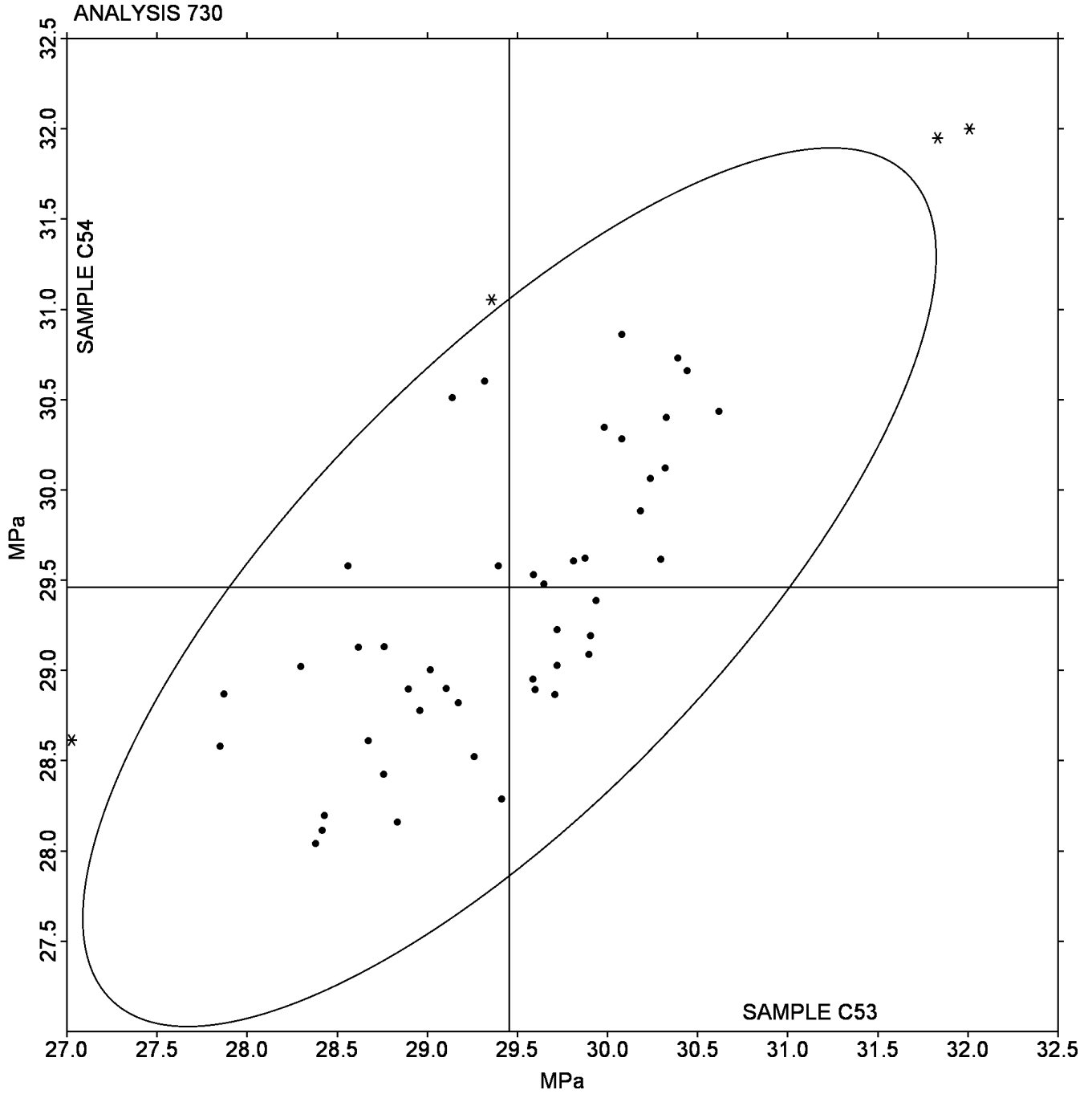
0.952 MPa

Statistics based on 49 of 49 reporting participants

Sample C53: HIPS & Sample C54: HIPS

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

Grand Mean Sample C53: 29.456 MPa Grand Mean Sample C54: 29.461 MPa



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

Analysis 731

Tensile Stress at Break - MPa

WebCode	Data Flag	Sample C53			Sample C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1RAC9V		21.92	-0.23	-0.37	21.58	-0.36	-0.75
3P4WLU		22.43	0.28	0.44	21.63	-0.31	-0.65
4LWMRX		22.08	-0.07	-0.10	22.07	0.12	0.25
4WC2K5		22.74	0.59	0.94	22.94	0.99	2.05
4XSDAM	*	20.43	-1.72	-2.72	21.53	-0.41	-0.85
4ZB79H		21.69	-0.46	-0.73	21.58	-0.36	-0.75
5RGJXC		22.09	-0.06	-0.09	21.65	-0.29	-0.61
69BGTC	X	21.03	-1.12	-1.77	23.32	1.37	2.83
6VSGV6	X	24.62	2.47	3.92	24.79	2.85	5.88
6WE5UZ		21.11	-1.04	-1.64	21.37	-0.57	-1.18
7C9UYW		22.40	0.25	0.40	22.09	0.14	0.30
7LAWPG		21.42	-0.73	-1.15	22.16	0.21	0.44
8AT88T		22.11	-0.04	-0.07	22.32	0.38	0.78
8F8H2Q		22.51	0.36	0.58	21.55	-0.40	-0.82
8R77PS		22.51	0.36	0.57	21.68	-0.27	-0.55
9CE789		21.69	-0.46	-0.73	21.76	-0.18	-0.38
9V7N2Z		22.81	0.67	1.06	21.82	-0.12	-0.25
A7BU7B		22.77	0.62	0.99	22.04	0.09	0.19
AWCHCQ		22.33	0.19	0.29	21.76	-0.19	-0.39
BNZ8HN		21.15	-0.99	-1.57	22.20	0.25	0.52
C7UR3V		21.92	-0.23	-0.36	22.24	0.29	0.61
CRLDM4		22.54	0.39	0.62	21.96	0.01	0.03
E8DKUF		22.45	0.30	0.47	21.80	-0.15	-0.30
EU1ZJ4		22.29	0.14	0.23	22.03	0.08	0.17
FH241E		22.12	-0.03	-0.04	21.59	-0.36	-0.73
FQ9U9J		23.20	1.05	1.67	22.92	0.97	2.00
GVW854		22.50	0.35	0.56	22.86	0.92	1.90
HBLPW7	*	22.19	0.04	0.06	20.80	-1.15	-2.37
HCB8S8	X	24.20	2.05	3.24	24.05	2.10	4.34
JMQ8GV		21.83	-0.32	-0.50	22.21	0.26	0.54
KBLPBK		22.34	0.19	0.31	21.82	-0.12	-0.26
KYGGG9	X	22.42	0.27	0.43	24.45	2.50	5.16

Plastics Interlaboratory Testing Program
Analysis 731

Tensile Stress at Break - MPa

WebCode	Data Flag	Sample C53			Sample C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
LLZ3P7		21.34	-0.81	-1.28	21.37	-0.58	-1.19
LWLXDM		22.22	0.08	0.12	22.22	0.27	0.56
LXFTSJ		22.44	0.29	0.46	22.75	0.80	1.66
Q19KBW	X	30.30	8.15	12.91	29.56	7.62	15.73
Q9DSFA		23.06	0.91	1.45	22.66	0.71	1.47
SUUBJC		20.92	-1.22	-1.94	21.52	-0.43	-0.88
T9EZV7		23.11	0.96	1.52	22.60	0.66	1.36
U7624B		21.65	-0.50	-0.79	21.64	-0.30	-0.62
XYDB2T		23.03	0.88	1.39	21.69	-0.26	-0.53
ZMNPCH		22.12	-0.03	-0.05	21.56	-0.38	-0.79

Summary Statistics

Grand Means

22.148 MPa

21.946 MPa

Std Dev Btwn Labs

0.631 MPa

0.484 MPa

Statistics based on 37 of 42 reporting participants

Sample C53: HIPS & Sample C54: HIPS

Comments on assigned Data Flags for Test #731

69BGTC (X) - Inconsistent in testing between samples, data for Sample C54 are high.

6VSGV6 (X) - Data for both samples are high.

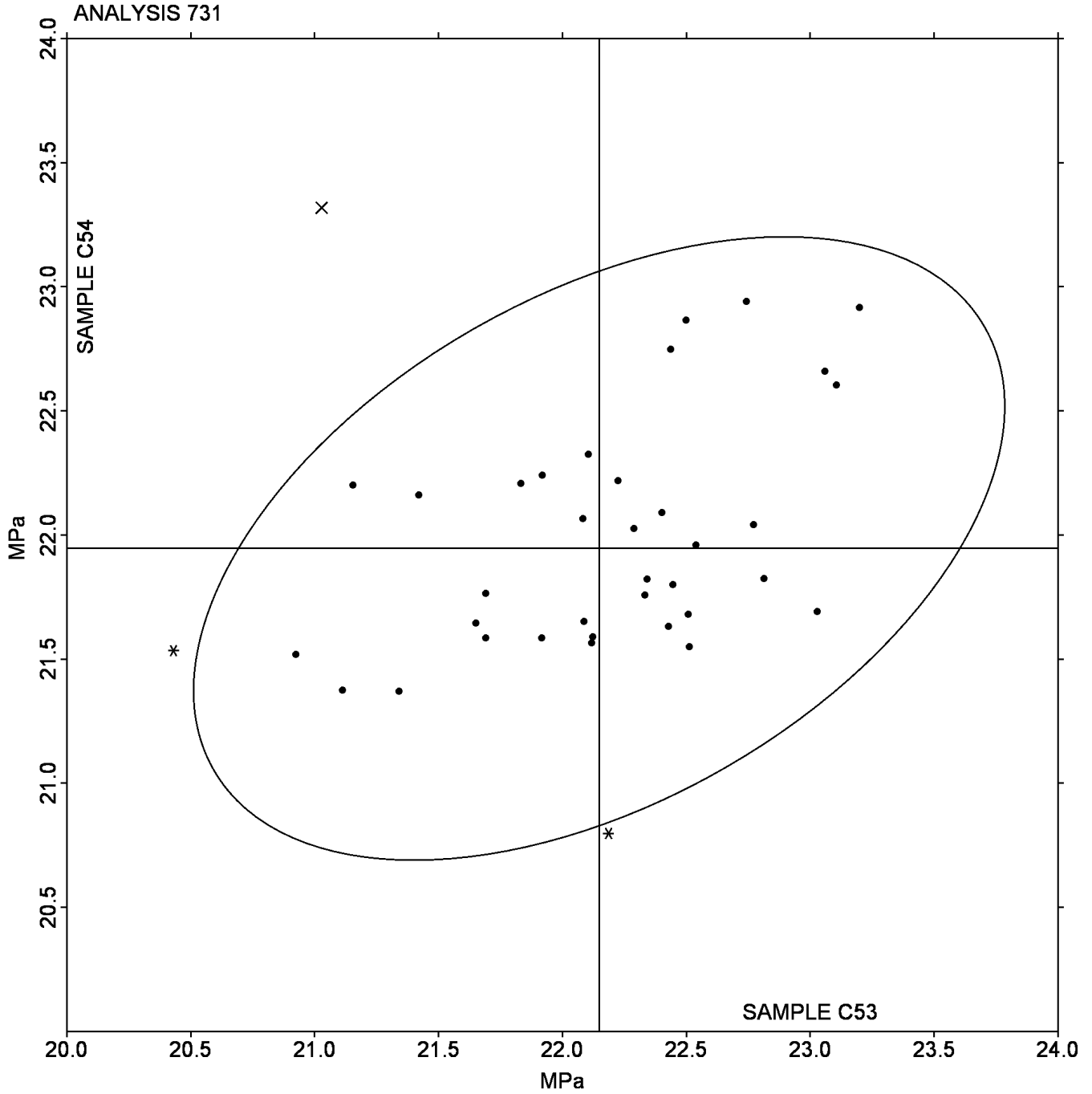
HCB8S8 (X) - Data for both samples are high.

KYGGG9 (X) - Inconsistent in testing between samples, data for Sample C54 are high.

Q19KBW (X) - Data for both samples are high.

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

Grand Mean Sample C53: 22.148 MPa Grand Mean Sample C54: 21.946 MPa



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

Plastics Interlaboratory Testing Program

Analysis 732

Percent Strain at Yield

WebCode	Data Flag	Sample C53			Sample C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
24RB72		1.564	0.048	0.48	1.588	0.064	0.65
3UD6NW		1.558	0.042	0.42	1.550	0.026	0.27
4PQTNM		1.516	0.000	0.00	1.544	0.020	0.21
5H6C29		1.562	0.046	0.46	1.558	0.034	0.35
5R8YDQ		1.514	-0.002	-0.02	1.466	-0.058	-0.58
6F41B8		1.428	-0.088	-0.89	1.496	-0.028	-0.28
6HBKTG		1.500	-0.016	-0.16	1.600	0.076	0.77
7LV4ZB	*	1.818	0.302	3.04	1.788	0.264	2.67
8MQNH9		1.498	-0.018	-0.18	1.576	0.052	0.53
AEGXPH		1.410	-0.106	-1.07	1.442	-0.082	-0.82
ATF2VU	X	2.496	0.980	9.86	2.316	0.792	7.99
BSQ2WA		1.610	0.094	0.95	1.572	0.048	0.49
EVKUH4		1.522	0.006	0.06	1.544	0.020	0.21
FIHVYX		1.554	0.038	0.38	1.528	0.004	0.04
FQCBD9		1.466	-0.050	-0.50	1.462	-0.062	-0.62
GBCHFT		1.510	-0.006	-0.06	1.568	0.044	0.45
GVXWS9		1.536	0.020	0.20	1.556	0.032	0.33
HDA2EQ		1.512	-0.004	-0.04	1.548	0.024	0.25
KTRB8K		1.534	0.018	0.18	1.534	0.010	0.10
LNAVSM		1.402	-0.114	-1.15	1.454	-0.070	-0.70
MTG6MD	*	1.521	0.005	0.05	1.399	-0.125	-1.26
PL7QRX		1.530	0.014	0.14	1.536	0.013	0.13
Q5X9C8		1.492	-0.024	-0.24	1.512	-0.012	-0.12
R93TT7		1.484	-0.032	-0.32	1.408	-0.116	-1.17
SBNSAE		1.500	-0.016	-0.16	1.506	-0.018	-0.18
SFMYVC		1.614	0.098	0.99	1.586	0.062	0.63
SJR84G		1.484	-0.032	-0.32	1.502	-0.022	-0.22
TXWX2N	*	1.240	-0.276	-2.78	1.220	-0.304	-3.06
UL22L7		1.684	0.168	1.69	1.720	0.196	1.98
UP5S7E		1.692	0.176	1.77	1.698	0.174	1.76
VXTY8R		1.570	0.054	0.55	1.562	0.039	0.39
VZFKYT		1.502	-0.014	-0.14	1.459	-0.064	-0.65

Plastics Interlaboratory Testing Program
Analysis 732
Percent Strain at Yield

WebCode	Data Flag	Sample C53			Sample C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
WC3ZRZ		1.318	-0.198	-1.99	1.340	-0.184	-1.85
WUKR5K	X	1.850	0.334	3.36	2.052	0.528	5.32
YBWJ3Y		1.606	0.090	0.91	1.590	0.066	0.67
YSELFN		1.452	-0.064	-0.64	1.480	-0.044	-0.44
ZGGKV4		1.450	-0.066	-0.66	1.492	-0.032	-0.32
ZGPJAY		1.455	-0.061	-0.61	1.500	-0.024	-0.24
ZGTCCZ		1.482	-0.034	-0.34	1.490	-0.034	-0.34

Summary Statistics

Grand Means

1.5160 Percent

1.5236 Percent

Std Dev Btwn Labs

0.0994 Percent

0.0992 Percent

Statistics based on 37 of 39 reporting participants

Sample C53: HIPS & Sample C54: HIPS

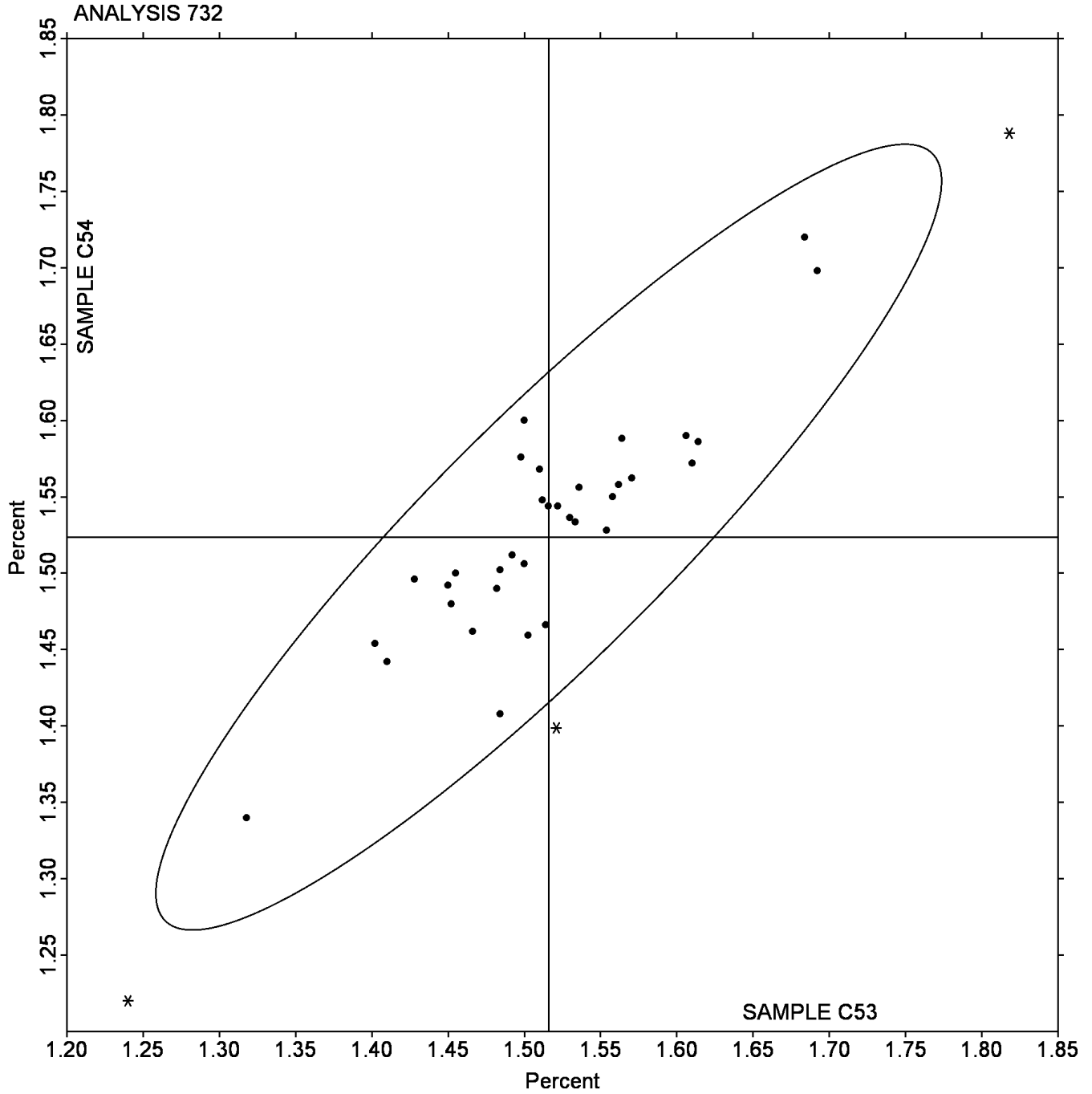
Comments on assigned Data Flags for Test #732

ATF2VU (X) - Data for both samples are high. Also inconsistent in testing within both samples.

WUKR5K (X) - Data for both samples are high.

Plastics Interlaboratory Testing Program
Analysis 732
Percent Strain at Yield

Grand Mean Sample C53: 1.5160 Percent Grand Mean Sample C54: 1.5236 Percent



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

Plastics Interlaboratory Testing Program
Analysis 734
Modulus of Elasticity - MPa

WebCode	Data Flag	Sample C53			Sample C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
3572PS	*	2,486	313	2.30	2,479	298	2.61
3KFBVL		2,257	84	0.62	2,250	68	0.60
3Q7ZGD	*	1,828	-345	-2.54	1,958	-224	-1.96
4RSGKH		2,110	-63	-0.46	2,144	-38	-0.33
66ZZN3		2,413	240	1.76	2,360	179	1.56
6CE72D		2,129	-44	-0.32	2,194	12	0.10
6YKBVM		2,152	-22	-0.16	2,199	17	0.15
75133Z		2,163	-10	-0.07	2,187	5	0.05
8MA4YC		2,091	-83	-0.61	2,139	-43	-0.37
BZ7CBW		2,311	138	1.02	2,280	99	0.86
CDV6QH		2,338	165	1.21	2,301	119	1.04
E5PB9U		2,139	-34	-0.25	2,079	-103	-0.90
G4QFQV		2,052	-121	-0.89	2,044	-138	-1.21
GQ1UBH	*	2,215	42	0.31	2,063	-118	-1.04
H8KJJM		1,915	-258	-1.89	1,939	-242	-2.12
J6CXDF		2,043	-130	-0.95	2,041	-140	-1.23
KUSM6T		1,998	-175	-1.29	2,009	-173	-1.51
L5QST1		2,243	70	0.51	2,266	84	0.74
LJ8LB5		2,260	87	0.64	2,241	59	0.52
LZMTNU		2,285	112	0.82	2,282	100	0.88
MCHDKK		2,208	35	0.25	2,174	-7	-0.07
MLRYJM		2,118	-55	-0.40	2,137	-45	-0.39
MUD5WT		2,152	-21	-0.16	2,222	41	0.36
MXKVQ9		2,438	265	1.95	2,357	176	1.54
N1NZ2M		2,200	27	0.20	2,152	-30	-0.26
Q8XMPZ		2,209	36	0.27	2,223	41	0.36
Q98DWV		2,173	0	0.00	2,199	17	0.15
QAUX41		1,942	-231	-1.70	1,994	-188	-1.64
QWH1HE	*	2,025	-148	-1.09	2,198	17	0.14
RYATBH		2,174	1	0.01	2,196	14	0.13
THMGJ7		2,135	-39	-0.28	2,110	-72	-0.63
U6F8T9		2,239	65	0.48	2,237	56	0.49

Plastics Interlaboratory Testing Program
Analysis 734
Modulus of Elasticity - MPa

WebCode	Data Flag	Sample C53			Sample C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
U6MCED		2,097	-76	-0.56	2,190	8	0.07
VYK68U		2,304	130	0.96	2,307	126	1.10
WE3H1M		2,123	-51	-0.37	2,106	-76	-0.66
YNQY62		2,217	44	0.32	2,239	57	0.50
ZBR7UF		2,214	41	0.30	2,199	17	0.15
ZCMN6D		2,182	9	0.07	2,209	28	0.24

Summary Statistics

Grand Means

2,173.1 MPa

2,181.7 MPa

Std Dev Btwn Labs

136.0 MPa

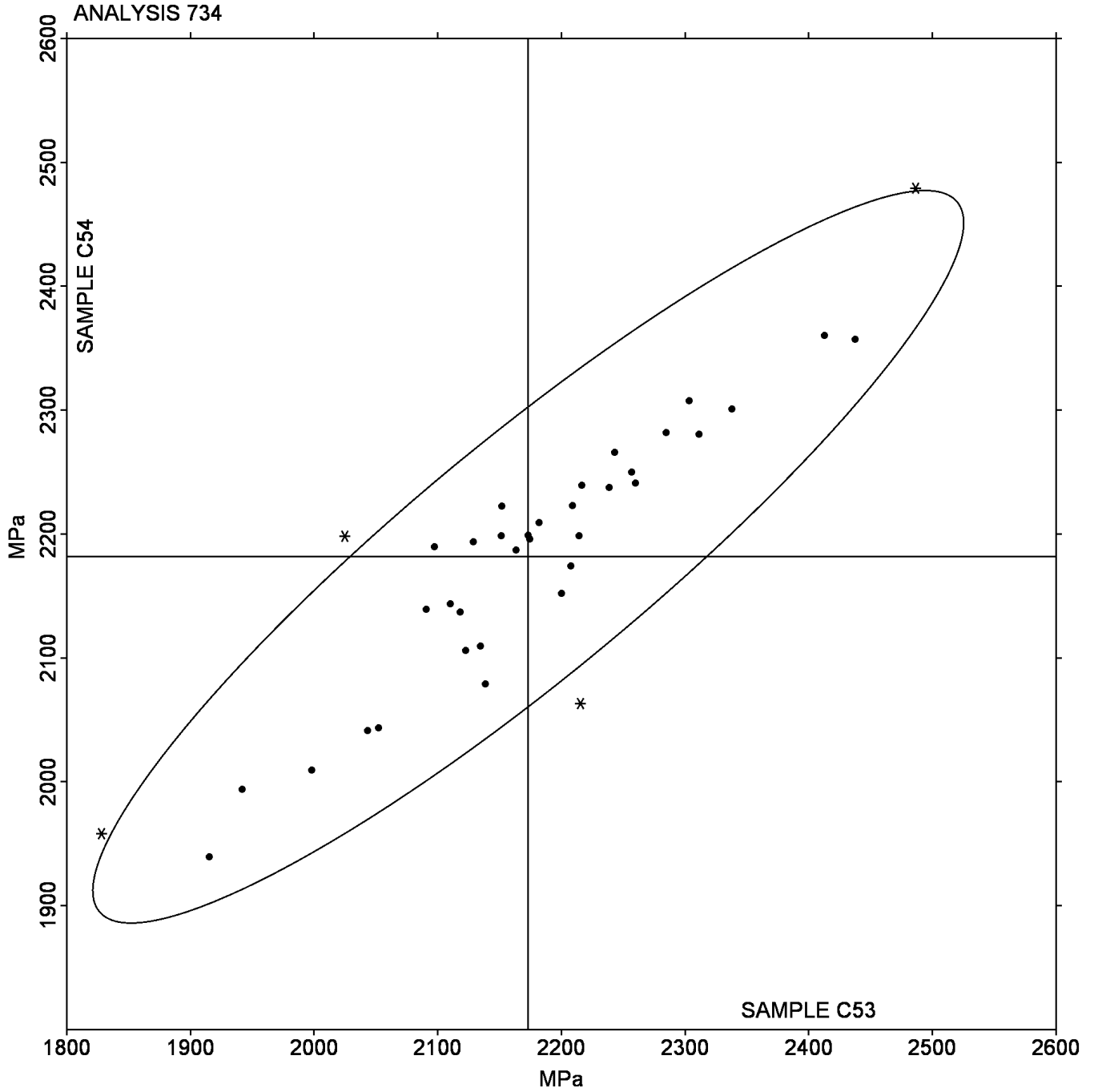
114.2 MPa

Statistics based on 38 of 38 reporting participants

Sample C53: HIPS & Sample C54: HIPS

Plastics Interlaboratory Testing Program
Analysis 734
Modulus of Elasticity - MPa

Grand Mean Sample C53: 2,173.12 MPa Grand Mean Sample C54: 2,181.65 MPa



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

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

WebCode	Data Flag	Sample J53			Sample J54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1HCTM6		385.9	-36.2	-2.17	339.8	-25.2	-1.74
1ZBW2W		423.0	0.9	0.06	367.0	1.9	0.13
2AA3J2		425.5	3.5	0.21	364.6	-0.5	-0.04
2CTFRH	X	460.7	38.6	2.32	378.2	13.1	0.91
2D3U5Y		410.9	-11.1	-0.67	359.9	-5.2	-0.36
2N2P5P	X	348.2	-73.9	-4.43	360.7	-4.4	-0.30
42YM2K		442.3	20.3	1.22	381.6	16.5	1.14
4844XZ		425.9	3.8	0.23	362.5	-2.5	-0.18
4Y56LB		425.0	3.0	0.18	362.2	-2.9	-0.20
68ERFR		429.1	7.1	0.43	367.5	2.4	0.17
6BXD14		437.9	15.9	0.95	384.6	19.5	1.35
6FKS56		428.0	5.9	0.35	364.0	-1.1	-0.07
6SW2TV		446.8	24.7	1.48	386.3	21.2	1.46
7RJPQK		415.1	-6.9	-0.41	364.1	-1.0	-0.07
8TAPLG		412.1	-9.9	-0.59	354.4	-10.7	-0.74
8Z1G53		406.3	-15.8	-0.95	345.2	-19.8	-1.37
9CKT7G		415.7	-6.3	-0.38	370.0	5.0	0.34
A8NF8Y		408.1	-13.9	-0.84	351.0	-14.1	-0.97
AFWKTX	X	62.3	-359.7	-21.56	55.4	-309.7	-21.37
B2K9XN		423.2	1.2	0.07	353.6	-11.5	-0.79
C3SCBC		411.7	-10.3	-0.62	355.3	-9.8	-0.68
CUFHS4		428.5	6.5	0.39	369.3	4.2	0.29
D2GA4R		433.6	11.6	0.69	370.5	5.4	0.37
DHGLAG		435.7	13.7	0.82	379.0	13.9	0.96
DQ8ZYV		417.1	-5.0	-0.30	369.9	4.8	0.33
E4J1X5		431.4	9.3	0.56	372.1	7.1	0.49
EDC8V3		418.7	-3.4	-0.20	359.4	-5.6	-0.39
F5WYW8		454.8	32.8	1.96	390.0	24.9	1.72
FE5J8G		401.0	-21.1	-1.26	346.5	-18.6	-1.29
FML8WG		419.7	-2.3	-0.14	361.3	-3.8	-0.26
FY2D5J		414.0	-8.1	-0.48	363.1	-2.0	-0.14
GM83M5		439.7	17.6	1.06	376.3	11.2	0.77

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

WebCode	Data Flag	Sample J53			Sample J54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
HPNLVU		424.3	2.3	0.14	367.4	2.3	0.16
J1CWRE		434.9	12.8	0.77	376.2	11.2	0.77
K2Y9JG		405.4	-16.6	-1.00	355.5	-9.6	-0.66
K894XR		439.4	17.3	1.04	378.4	13.3	0.92
KL3QQM		435.0	13.0	0.78	377.1	12.0	0.83
KNPJHF		426.4	4.3	0.26	375.1	10.1	0.69
KQGKBB		442.8	20.8	1.24	383.6	18.5	1.28
LCHRZU		447.1	25.1	1.50	395.1	30.0	2.07
M1MT12		435.8	13.8	0.82	376.6	11.5	0.79
M9TL1V		419.6	-2.4	-0.15	365.5	0.4	0.03
NRH6F8		383.8	-38.3	-2.29	333.7	-31.3	-2.16
P8P4VW		428.0	5.9	0.35	358.2	-6.8	-0.47
PJ3NYU		436.0	14.0	0.84	378.4	13.3	0.92
PVP62X		406.9	-15.1	-0.91	350.9	-14.1	-0.98
PY4MEH		406.0	-16.1	-0.96	354.3	-10.8	-0.74
QSNT4H		425.9	3.9	0.23	361.3	-3.7	-0.26
RCUAGT		426.7	4.7	0.28	362.6	-2.5	-0.17
RUCXLA		408.1	-14.0	-0.84	358.1	-7.0	-0.48
SDJZ4T		408.2	-13.8	-0.83	353.8	-11.3	-0.78
SXRS18		404.6	-17.4	-1.04	362.1	-3.0	-0.21
TF8RM3		443.9	21.8	1.31	381.2	16.2	1.12
U45K1W		451.0	29.0	1.74	390.3	25.3	1.74
U6QVW8	X	0.4	-421.6	-25.27	0.4	-364.7	-25.16
UNYDWT		414.4	-7.7	-0.46	354.0	-11.1	-0.77
UQEX7W		431.0	8.9	0.54	374.9	9.8	0.67
VLUR9F	X	423,714.2	423,292.2	25,368.66	367,497.4	367,132.3	25,328.88
VYU61Q		413.3	-8.7	-0.52	355.5	-9.5	-0.66
WABXPS		397.6	-24.5	-1.47	343.8	-21.3	-1.47
WAKAR2		402.0	-20.1	-1.20	351.2	-13.9	-0.96
X1JGMP		400.1	-21.9	-1.32	344.1	-21.0	-1.45
Y25PWB		424.3	2.2	0.13	368.0	3.0	0.20
YB4GZH		398.4	-23.6	-1.42	336.1	-29.0	-2.00

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

WebCode	Data Flag	Sample J53			Sample J54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
YS6GA5		397.1	-25.0	-1.50	353.7	-11.4	-0.79
YV4YBC	*	460.3	38.2	2.29	402.2	37.1	2.56

Summary Statistics

Grand Means

422.05 ksi

365.09 ksi

Std Dev Btwn Labs

16.69 ksi

14.49 ksi

Statistics based on 61 of 66 reporting participants

Sample J53: ABS/PC & Sample J54: ABS/PC

Comments on assigned Data Flags for Test #720

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

2N2P5P (X) - Inconsistent in testing between samples, data for Sample J53 are low. Also inconsistent in testing within both samples.

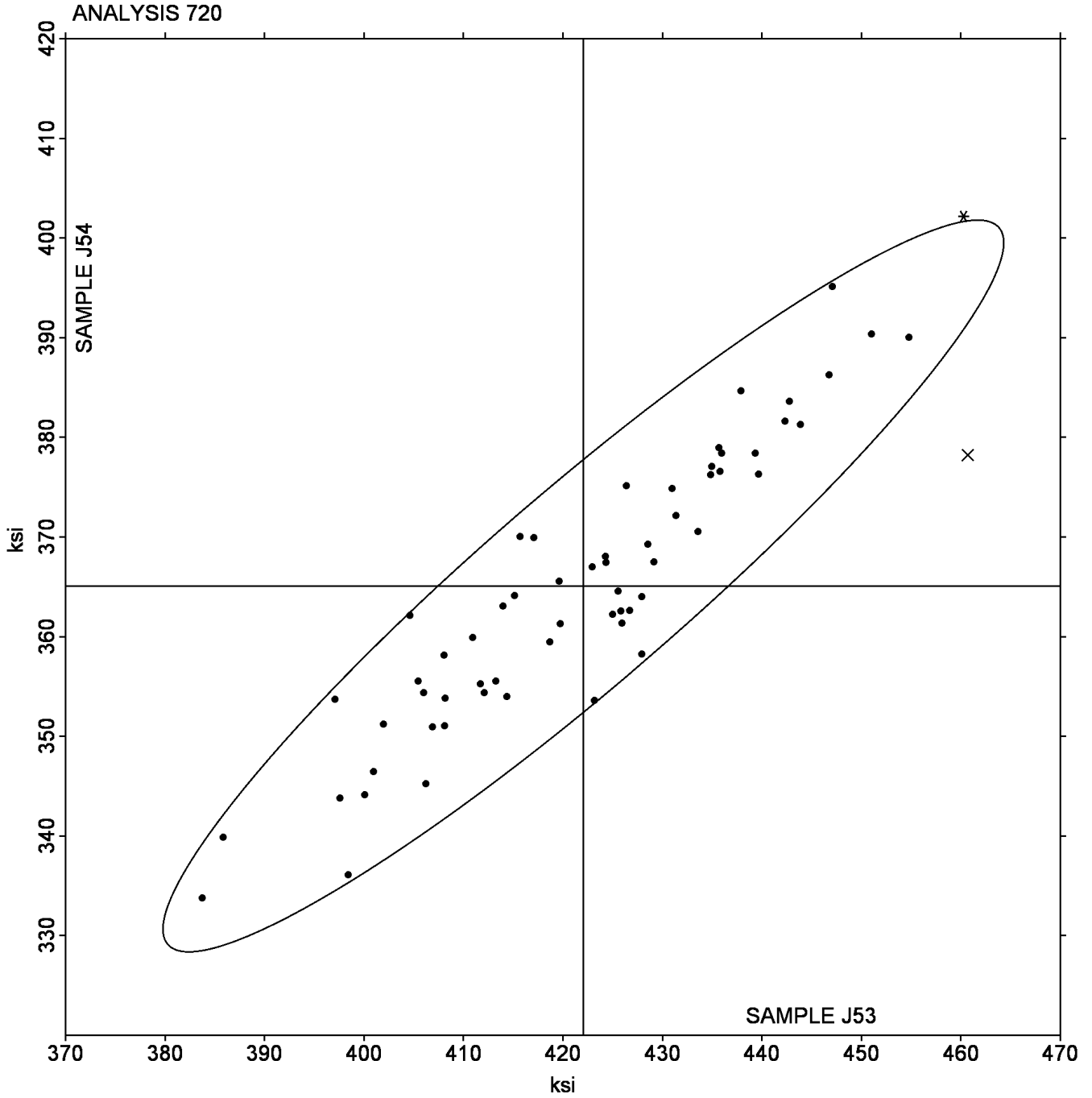
AFWKTX (X) - Extreme data.

U6QVW8 (X) - Extreme data. Lab indicated reporting in psi, but data appear to be in ksi.

VLUR9F (X) - Extreme data. Lab indicated reporting in ksi, but data appear to be in psi.

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

Grand Mean Sample J53: 422.05 ksi Grand Mean Sample J54: 365.09 ksi



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

Plastics Interlaboratory Testing Program
Analysis 721

Flexural Stress at 5% Strain - psi

WebCode	Data Flag	Sample J53			Sample J54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
118HJU		14,608	288	0.58	12,990	331	0.84
1K835N		14,584	263	0.53	13,001	342	0.87
1RIUGW		14,639	319	0.64	13,176	517	1.31
2726GK		15,443	1,122	2.25	13,373	714	1.81
2FYUNP		14,039	-281	-0.56	12,479	-180	-0.46
2K3C9P	X	13,271	-1,049	-2.11	12,401	-258	-0.66
3PXMWW		14,183	-138	-0.28	12,544	-115	-0.29
52MCJR		13,704	-616	-1.24	12,056	-602	-1.53
5615DQ		15,062	741	1.49	13,202	543	1.38
5K63VW		13,169	-1,152	-2.31	11,862	-797	-2.02
5NK1NS		13,960	-360	-0.72	12,357	-302	-0.77
5YWCUU		14,864	543	1.09	12,995	337	0.85
6LHAMW		15,331	1,010	2.03	13,288	630	1.60
7ECTRГ		14,396	76	0.15	12,739	80	0.20
8LJ5VZ		14,541	220	0.44	12,791	132	0.34
9QUEL8		14,625	304	0.61	12,948	289	0.73
AZJHL9		14,174	-146	-0.29	12,620	-39	-0.10
CK98BL		14,458	137	0.28	12,578	-81	-0.21
CKBSD3		14,455	135	0.27	12,661	2	0.00
CYDFKP		14,256	-65	-0.13	12,580	-79	-0.20
D7R1RB	*	13,683	-638	-1.28	12,516	-143	-0.36
DK52H4		14,500	179	0.36	12,773	114	0.29
ED3K8P		14,027	-293	-0.59	12,355	-304	-0.77
FLEGCG		14,246	-75	-0.15	12,471	-188	-0.48
G92MN9		14,678	358	0.72	12,998	340	0.86
GH8M1G		13,618	-703	-1.41	12,278	-381	-0.97
HRRFKY		13,956	-364	-0.73	12,164	-494	-1.26
JZLZES		13,814	-507	-1.02	12,343	-316	-0.80
LW3JWH		14,505	184	0.37	12,764	105	0.27
M81T5C		14,046	-274	-0.55	12,387	-271	-0.69
MTWUHD		14,435	115	0.23	12,786	128	0.32
MUME7D		13,910	-411	-0.82	12,385	-273	-0.69

Plastics Interlaboratory Testing Program
Analysis 721

Flexural Stress at 5% Strain - psi

WebCode	Data Flag	Sample J53			Sample J54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
P9SLCT		14,398	78	0.16	12,797	139	0.35
QMDMFY		14,253	-68	-0.14	12,673	14	0.04
RCGQ2Q	*	15,226	905	1.82	13,600	941	2.39
UAHH9N	*	14,305	-16	-0.03	12,253	-405	-1.03
UCF9UF		14,286	-34	-0.07	12,613	-46	-0.12
UEZEZ4		13,846	-475	-0.95	12,283	-376	-0.95
UL3Q8C		13,400	-921	-1.85	12,000	-659	-1.67
VGQ4EY	X	3,272	-11,048	-22.18	2,857	-9,802	-24.89
W7NBBQ		14,603	282	0.57	12,685	26	0.07
WBBW2Y		14,672	351	0.71	13,047	388	0.98
WHZ3TK		14,968	647	1.30	13,112	453	1.15
X3T4WT		14,472	151	0.30	12,786	127	0.32
XB7CRM		13,444	-877	-1.76	11,871	-788	-2.00
ZR4NWB		14,323	2	0.00	12,806	147	0.37

Summary Statistics

Grand Means

14,320.5 psi

12,658.8 psi

Std Dev Btwn Labs

498.2 psi

393.8 psi

Statistics based on 44 of 46 reporting participants

Sample J53: ABS/PC & Sample J54: ABS/PC

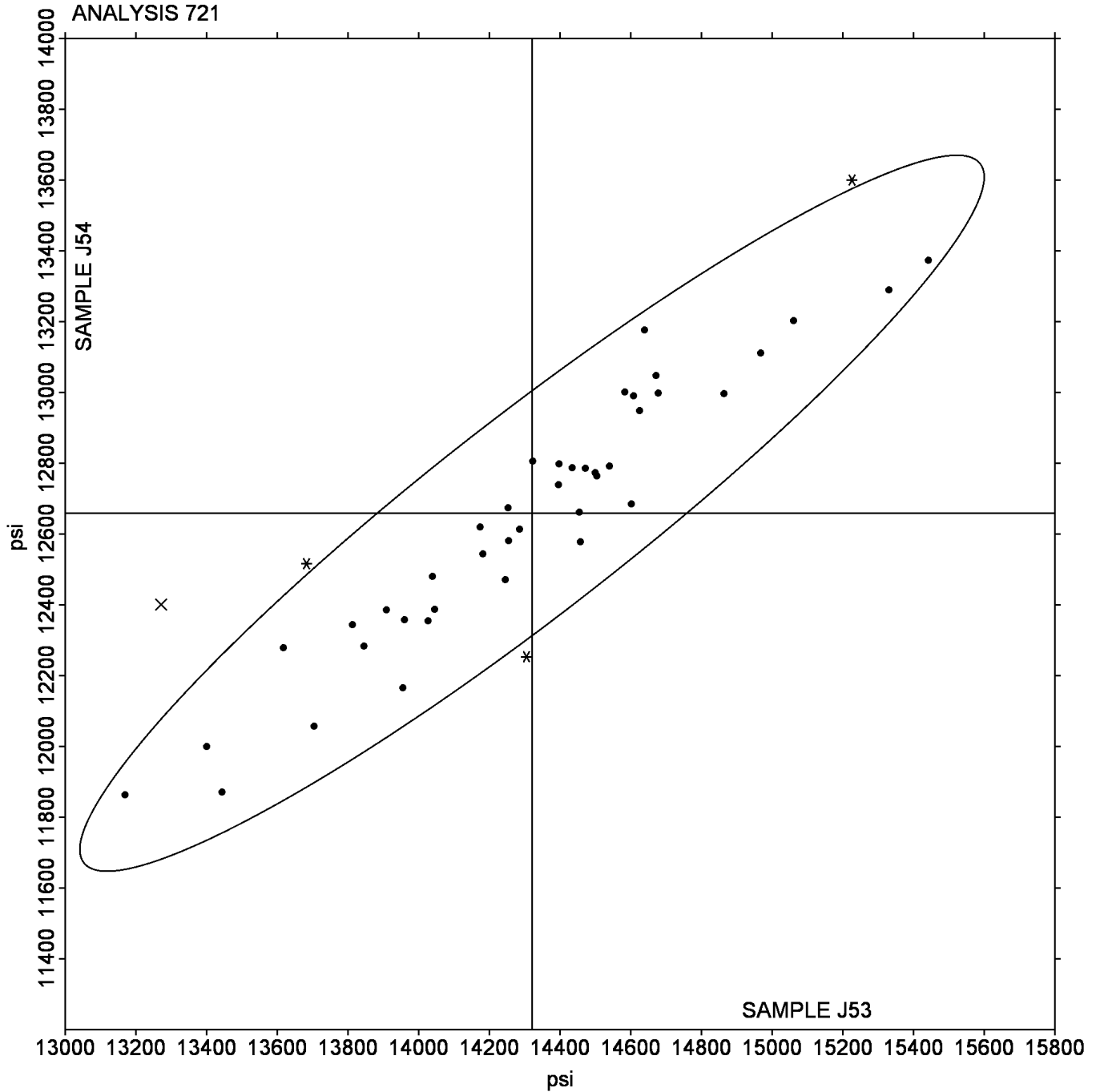
Comments on assigned Data Flags for Test #721

2K3C9P (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.

VGQ4EY (X) - Extreme data.

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

Grand Mean Sample J53: 14,320.53 psi Grand Mean Sample J54: 12,658.83 psi



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

Analysis 722

Flexural Stress at Yield - psi

WebCode	Data Flag	Sample J53			Sample J54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
18TD2B		14,747	512	0.97	12,908	300	0.63
3ZZ6VW		13,893	-342	-0.65	12,346	-262	-0.55
48QPPJ		14,702	466	0.89	13,033	425	0.89
4GEYX5		14,871	635	1.21	13,336	728	1.52
4K4915		14,307	71	0.13	12,691	83	0.17
4VTQHK		14,411	176	0.33	12,777	169	0.35
58KLMS		14,268	33	0.06	12,532	-76	-0.16
5PPA5H		14,528	292	0.55	12,845	237	0.50
7E9BMR		13,873	-363	-0.69	12,184	-424	-0.89
81SP56		14,490	255	0.48	12,695	87	0.18
862VTQ	X	10,039	-4,197	-7.97	6,931	-5,677	-11.88
8SFJ48	*	14,324	89	0.17	12,268	-340	-0.71
8WRLXR		13,637	-599	-1.14	11,939	-669	-1.40
9Q1YVD		13,670	-566	-1.07	12,064	-544	-1.14
9RUEYE	X	13,748	-488	-0.93	12,812	204	0.43
B2NJW6		14,643	408	0.77	13,056	448	0.94
F2H9NW	*	15,352	1,116	2.12	13,836	1,228	2.57
FJ6DFK		14,216	-20	-0.04	12,614	6	0.01
HFHQ4A		13,393	-843	-1.60	11,735	-873	-1.83
J244QH	*	13,235	-1,000	-1.90	11,993	-615	-1.29
JMWAPE		14,925	689	1.31	13,080	472	0.99
KBYRT6		13,773	-463	-0.88	12,352	-256	-0.53
KUUP5T		13,854	-381	-0.72	12,459	-149	-0.31
LBTSC3		14,332	97	0.18	12,834	226	0.47
NLCCMC		13,992	-244	-0.46	12,468	-139	-0.29
PBE51K		13,400	-836	-1.59	12,000	-608	-1.27
PECRPF		14,068	-168	-0.32	12,432	-176	-0.37
PLHAZS		14,572	337	0.64	12,896	288	0.60
PPBBQV		13,719	-517	-0.98	12,262	-346	-0.72
S1BBTA		14,044	-191	-0.36	12,400	-208	-0.44
S5UXSW		14,265	30	0.06	12,544	-64	-0.13
SNQSGU		14,884	648	1.23	13,407	799	1.67

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

WebCode	Data Flag	Sample J53			Sample J54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
UGWJ1S	*	15,584	1,348	2.56	13,668	1,060	2.22
UTP9HQ		13,503	-733	-1.39	11,995	-613	-1.28
W699FV		14,148	-88	-0.17	12,514	-94	-0.20
XGL9W4		14,305	70	0.13	12,680	72	0.15
YRTXDE		13,999	-237	-0.45	12,229	-379	-0.79
YTGNPD		14,306	71	0.13	12,619	11	0.02
ZPQ4RV		14,671	435	0.83	13,049	441	0.92
ZTJ91R	X	13,642	-593	-1.13	12,804	196	0.41
ZYEUDN		14,048	-187	-0.36	12,360	-248	-0.52

Summary Statistics

Grand Means

14,235.6 psi

12,607.9 psi

Std Dev Btwn Labs

526.3 psi

477.7 psi

Statistics based on 38 of 41 reporting participants

Sample J53: ABS/PC & Sample J54: ABS/PC

Comments on assigned Data Flags for Test #722

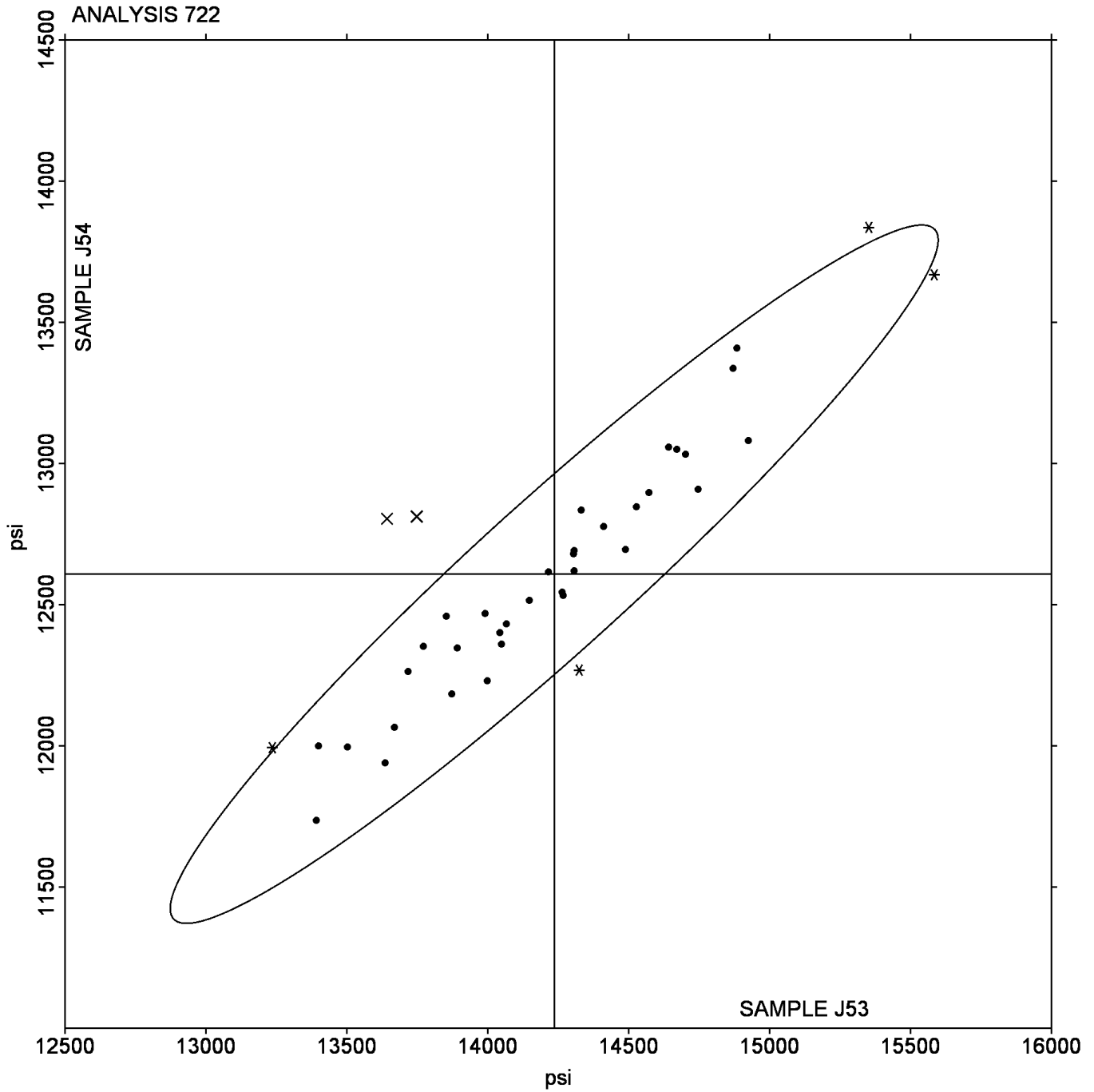
862VTQ (X) - Data for both samples are low.

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

ZTJ91R (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.

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

Grand Mean Sample J53: 14,235.60 psi Grand Mean Sample J54: 12,607.91 psi



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

Plastics Interlaboratory Testing Program
Analysis 736
Flexural Modulus - MPa

WebCode	Data Flag	Sample K53			Sample K54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2HK1YS		2,215	-25	-0.26	2,195	-28	-0.29
4N57NR	*	2,432	192	1.97	2,302	79	0.81
5359AH		2,316	76	0.78	2,283	60	0.61
5N8FNB		2,228	-12	-0.12	2,249	26	0.26
6Z9QD4		2,074	-166	-1.70	2,132	-91	-0.93
6ZS6DK		2,201	-38	-0.39	2,189	-34	-0.35
72AJL1		2,210	-29	-0.30	2,232	9	0.09
7VP3ZX		2,148	-92	-0.94	2,147	-77	-0.79
7W9PZT		2,348	108	1.11	2,362	139	1.43
8VLHHT		2,269	29	0.30	2,272	49	0.50
A6ECB2		2,360	120	1.23	2,277	54	0.56
AC35DT		2,219	-21	-0.22	2,185	-39	-0.40
ANJBJ		2,238	-2	-0.02	2,241	18	0.19
B798MG		2,245	6	0.06	2,245	22	0.23
CZ2ED6	*	2,471	231	2.37	2,493	270	2.77
D12J2E		2,319	80	0.81	2,285	62	0.64
DVPC7N	X	2,175	-65	-0.67	2,320	97	1.00
E89TBS		2,205	-35	-0.36	2,225	1	0.02
EAHCLU		2,265	25	0.26	2,242	19	0.19
EOPY47		2,273	33	0.34	2,236	13	0.13
FV4RYA		2,035	-205	-2.10	2,006	-217	-2.23
FWDANT		2,245	5	0.05	2,226	3	0.03
GCP5ZT		2,153	-87	-0.89	2,134	-89	-0.92
GQY9F2		2,225	-15	-0.15	2,228	4	0.05
GRT1FE		2,255	15	0.16	2,230	7	0.07
GTV25Q		2,172	-68	-0.70	2,212	-11	-0.11
HCQC1B		2,458	218	2.23	2,444	220	2.26
HPBBC1		2,308	69	0.70	2,288	65	0.66
J47FB4		2,121	-119	-1.22	2,083	-140	-1.44
JULTH8		2,314	74	0.76	2,252	29	0.29
JY8QJR		2,229	-10	-0.11	2,153	-70	-0.72
LTHBD4		2,129	-110	-1.13	2,079	-144	-1.48

Plastics Interlaboratory Testing Program
Analysis 736
Flexural Modulus - MPa

WebCode	Data Flag	Sample K53			Sample K54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
P5E4ZB		2,120	-120	-1.23	2,088	-135	-1.39
PCHHAZ		2,058	-182	-1.86	2,054	-169	-1.74
Q4MTEG		2,264	24	0.25	2,232	9	0.09
QRWKAF		2,171	-68	-0.70	2,149	-74	-0.76
SXH96N		2,239	0	0.00	2,168	-55	-0.57
U258H3		2,241	1	0.01	2,244	21	0.22
U3JHVA		2,400	160	1.64	2,405	181	1.86
UHWD4W		2,170	-70	-0.72	2,252	29	0.30
V6Q5BB		2,409	169	1.73	2,361	138	1.42
VAHEDX		2,170	-70	-0.72	2,137	-86	-0.89
VPNTV3		2,221	-19	-0.20	2,206	-18	-0.18
WFRZXN		2,210	-30	-0.31	2,202	-21	-0.22
WS74LK		2,294	54	0.55	2,260	37	0.38
WSL61K		2,238	-2	-0.02	2,188	-35	-0.36
YR2NVY		2,162	-77	-0.79	2,082	-141	-1.45
ZCNX73	*	2,228	-12	-0.12	2,333	109	1.12

Summary Statistics

Grand Means

2,239.9 MPa

2,223.1 MPa

Std Dev Btwn Labs

97.6 MPa

97.4 MPa

Statistics based on 47 of 48 reporting participants

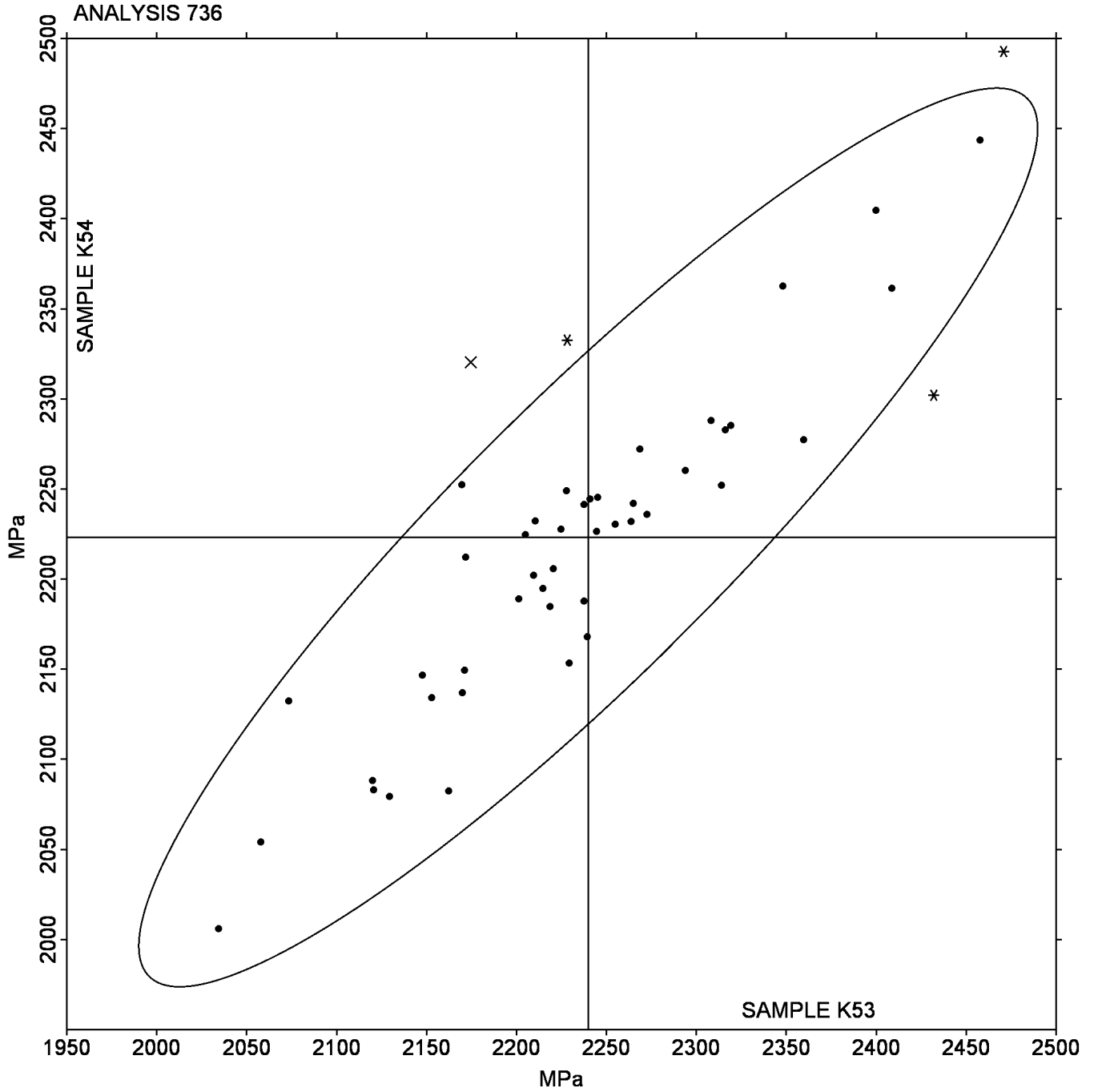
Sample K53: HIPS & Sample K54: HIPS

Comments on assigned Data Flags for Test #736

DVPC7N (X) - Inconsistent in testing between samples.

Plastics Interlaboratory Testing Program
Analysis 736
Flexural Modulus - MPa

Grand Mean Sample K53: 2,239.87 MPa Grand Mean Sample K54: 2,223.13 MPa



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

Analysis 737

Flexural Stress at 3.5% Strain - MPa

WebCode	Data Flag	Sample K53			Sample K54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
188VQQ	X	43.52	-2.62	-1.88	46.02	0.71	0.57
1BEVKW		46.04	-0.10	-0.07	45.16	-0.15	-0.12
1XXQ38		45.77	-0.37	-0.26	45.11	-0.20	-0.16
2P4ZZD		47.00	0.86	0.61	45.66	0.35	0.28
46EUQK		46.29	0.15	0.11	45.16	-0.15	-0.12
4G2WEK		45.42	-0.72	-0.52	43.82	-1.49	-1.20
4R5D9P		44.32	-1.82	-1.31	43.53	-1.78	-1.43
71MNC7		43.97	-2.17	-1.56	45.05	-0.26	-0.21
7RG4SJ		44.52	-1.62	-1.16	43.80	-1.51	-1.21
84H8KG		47.23	1.09	0.78	46.07	0.76	0.61
8GYQ1T		45.84	-0.30	-0.22	45.71	0.40	0.32
8KDE7H		47.77	1.63	1.17	45.50	0.19	0.16
AHBFFV		48.49	2.35	1.69	47.55	2.24	1.80
BUD4GJ		47.11	0.97	0.70	46.22	0.91	0.73
DLNFBD		46.84	0.70	0.50	45.87	0.56	0.45
DLRB7Q		47.45	1.31	0.94	47.85	2.54	2.04
EWYR3V		46.48	0.34	0.24	45.10	-0.21	-0.17
F3JJ2T		47.04	0.90	0.65	46.36	1.05	0.85
FD14FP		46.45	0.31	0.22	45.44	0.13	0.11
G7PMAS		48.26	2.12	1.52	46.85	1.54	1.24
JHR3EA		46.30	0.16	0.12	45.52	0.21	0.17
L712AK		46.35	0.21	0.15	45.37	0.06	0.04
N7D8VT		46.84	0.70	0.50	45.01	-0.30	-0.24
N8P44D	X	42.67	-3.47	-2.49	46.43	1.12	0.90
NMTPYV	*	46.09	-0.05	-0.03	43.18	-2.13	-1.71
P2GKEQ		46.00	-0.14	-0.10	44.30	-1.01	-0.81
Q2YZCS		45.36	-0.78	-0.56	45.30	-0.01	-0.01
Q3LTK3		48.04	1.90	1.36	47.86	2.55	2.05
QRGNAA		44.11	-2.03	-1.46	44.65	-0.66	-0.53
SKXMD3		45.78	-0.36	-0.26	44.73	-0.58	-0.47
SZUD4R		46.81	0.67	0.48	45.83	0.52	0.42
TPVUMP		45.57	-0.57	-0.41	44.61	-0.70	-0.57

Plastics Interlaboratory Testing Program
Analysis 737

Flexural Stress at 3.5% Strain - MPa

WebCode	Data Flag	Sample K53			Sample K54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
VLPHZ3		42.94	-3.20	-2.30	43.08	-2.23	-1.80
VMJTLA		47.26	1.12	0.80	46.70	1.39	1.12
XJA4FJ		46.40	0.26	0.19	45.60	0.29	0.23
YCPYPB		42.63	-3.51	-2.52	42.98	-2.33	-1.87

Summary Statistics

Grand Means

46.141 MPa

45.310 MPa

Std Dev Btwn Labs

1.391 MPa

1.243 MPa

Statistics based on 34 of 36 reporting participants

Sample K53: HIPS & Sample K54: HIPS

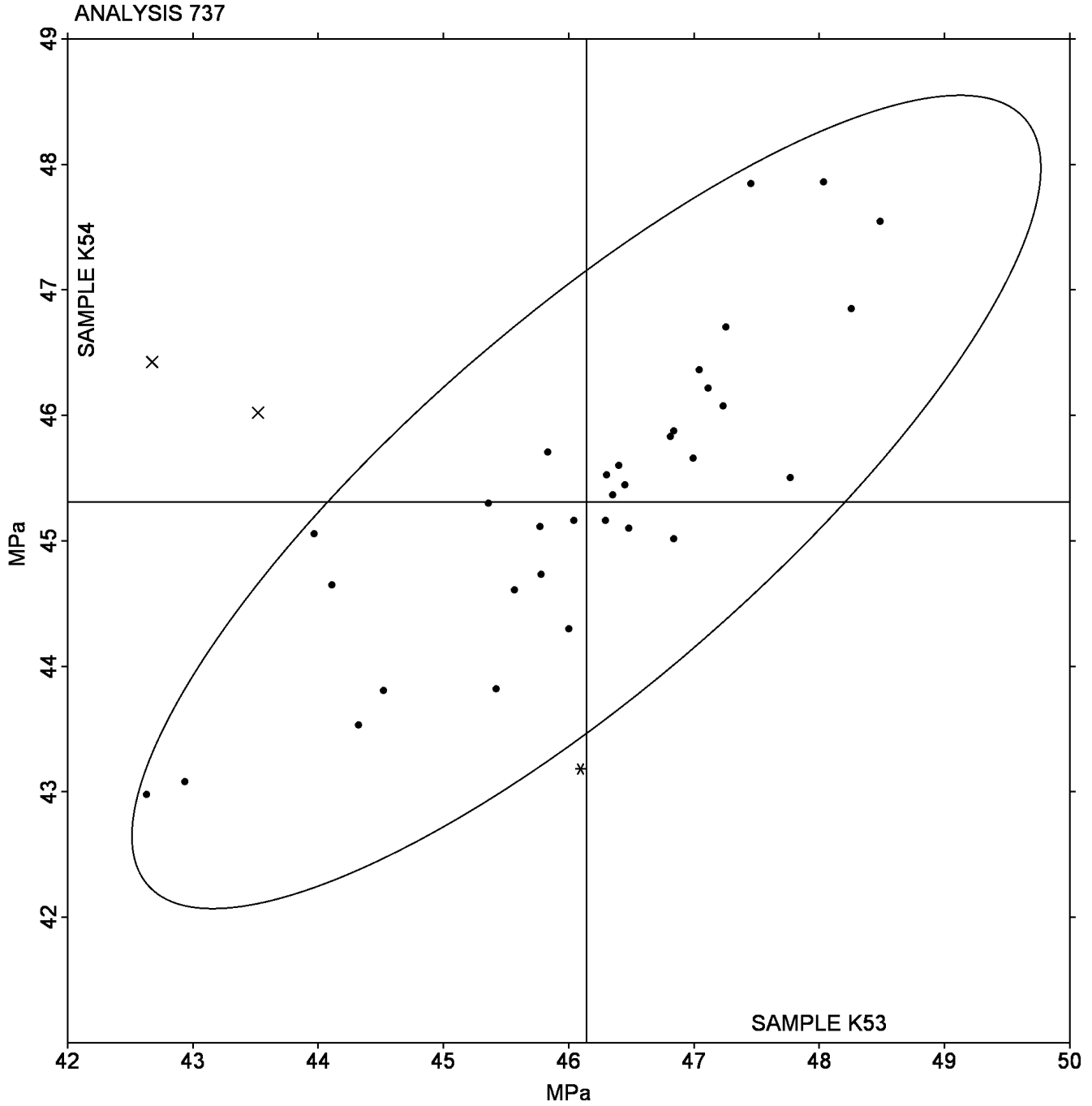
Comments on assigned Data Flags for Test #737

188VQQ (X) - Inconsistent in testing between samples.

N8P44D (X) - Inconsistent in testing between samples.

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

Grand Mean Sample K53: 46.141 MPa Grand Mean Sample K54: 45.310 MPa



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

Analysis 738

Flexural Stress at Yield - MPa

WebCode	Data Flag	Sample K53			Sample K54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
5D73PM		48.24	2.09	1.26	48.62	3.25	2.05
8Q4CEF		45.44	-0.71	-0.43	44.14	-1.23	-0.77
9PFLGM		46.07	-0.08	-0.05	45.26	-0.11	-0.07
A24C3G		47.01	0.86	0.52	46.02	0.65	0.41
C36FQJ		45.86	-0.29	-0.18	44.82	-0.55	-0.34
CJYWPU		47.27	1.12	0.67	46.76	1.39	0.88
E24218		47.03	0.88	0.53	46.07	0.70	0.44
E4UYVU		47.11	0.96	0.58	46.41	1.05	0.66
E8RH2Z		42.23	-3.92	-2.37	41.79	-3.57	-2.25
F5LYCK		45.96	-0.19	-0.11	45.96	0.60	0.38
FAXFQ1		48.35	2.20	1.33	47.03	1.66	1.05
FQ44M3		45.43	-0.72	-0.44	45.32	-0.05	-0.03
GZ2EEA		47.82	1.67	1.01	45.51	0.14	0.09
HQ15T6		46.32	0.17	0.10	45.18	-0.18	-0.12
JBDDKF		43.00	-3.15	-1.90	43.14	-2.22	-1.40
NYBTCR		46.97	0.82	0.49	45.61	0.24	0.15
PRJMLY		44.57	-1.58	-0.96	43.86	-1.51	-0.95
QDZDL5		47.19	1.04	0.63	46.28	0.91	0.57
S3PC2B		47.61	1.46	0.88	47.95	2.59	1.63
SA33LG		42.98	-3.17	-1.92	43.09	-2.27	-1.43
TB7R7D		48.55	2.40	1.45	47.60	2.23	1.40
UC57LN	*	46.10	-0.05	-0.03	43.12	-2.24	-1.41
UJ5KCR		45.60	-0.55	-0.33	44.64	-0.72	-0.45
WWYJSD		46.52	0.37	0.22	45.20	-0.17	-0.10
XEFTE1	X	42.81	-3.34	-2.02	46.69	1.33	0.84
Y4GD71		44.27	-1.88	-1.14	44.71	-0.65	-0.41
YWY347		46.42	0.27	0.16	45.39	0.02	0.02

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

Summary Statistics	
Grand Means	
46.150 MPa	45.365 MPa
Std Dev Btwn Labs	
1.654 MPa	1.590 MPa
Statistics based on 26 of 27 reporting participants	

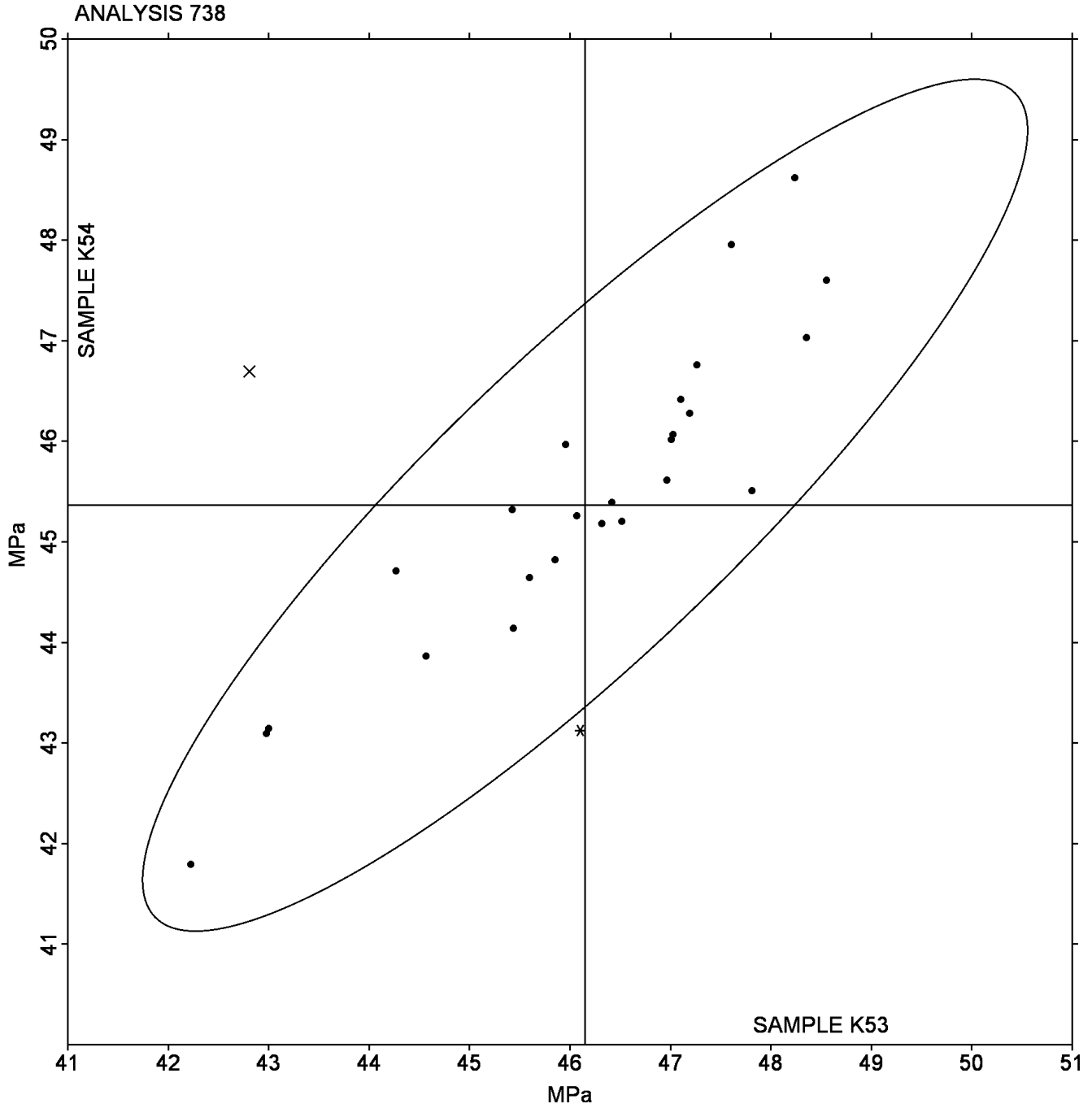
Sample K53: HIPS & Sample K54: HIPS

Comments on assigned Data Flags for Test #738

XEFE1 (X) - Inconsistent in testing between samples.

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

Grand Mean Sample K53: 46.150 MPa Grand Mean Sample K54: 45.365 MPa



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

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

WebCode	Data Flag	Sample S53			Sample S54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1YR2XV		3.06	0.16	0.29	10.51	0.55	0.81	TY
22ZQJX		2.51	-0.39	-0.71	9.77	-0.19	-0.28	TO
26HX6Q		1.98	-0.92	-1.68	8.98	-0.98	-1.45	CS
3JEJK6		4.04	1.14	2.09	11.10	1.14	1.69	CE
3T3XG5	*	3.81	0.91	1.67	9.33	-0.63	-0.93	TO
3ZV937	*	4.44	1.54	2.82	10.72	0.76	1.13	TM
44JZHW		2.59	-0.32	-0.58	10.46	0.50	0.74	RR
4A6NLE		3.35	0.45	0.82	9.46	-0.50	-0.75	TM
4EEMEC	X	0.30	-2.60	-4.76	1.07	-8.89	-13.21	CE
4FTEP2		2.44	-0.46	-0.84	9.83	-0.13	-0.19	CS
4MQ3UZ		2.80	-0.10	-0.19	9.45	-0.52	-0.77	TO
4XPHXH		3.10	0.20	0.36	9.98	0.02	0.03	BA
56F2R5		3.00	0.09	0.17	9.84	-0.12	-0.18	TO
5BXPX2		2.46	-0.44	-0.81	9.09	-0.88	-1.30	MI
5MBSUZ		2.76	-0.14	-0.26	9.85	-0.11	-0.16	TM
6F8UC8		3.42	0.51	0.94	10.32	0.35	0.53	TO
6P9AYZ	X	3.05	0.15	0.28	2.78	-7.18	-10.68	TM
72TX26		3.63	0.73	1.33	10.63	0.67	0.99	TO
7GY4F3		3.11	0.20	0.37	10.47	0.51	0.76	TM
8CHLRB		3.64	0.74	1.35	11.09	1.12	1.67	TO
8HP6Z3		3.36	0.46	0.84	10.06	0.09	0.14	TO
8LTNCC		2.99	0.09	0.16	9.90	-0.07	-0.10	BA
94FNP1	X	6.20	3.30	6.04	24.33	14.37	21.36	TM
98DM1Y	X	9.85	6.95	12.72	3.29	-6.67	-9.91	TM
9A4FP7		3.09	0.19	0.34	9.69	-0.27	-0.41	DY
B2WMJB		3.28	0.38	0.69	10.47	0.51	0.75	TM
B6953Z		3.17	0.27	0.50	9.06	-0.90	-1.34	TM
BD5UXH		2.80	-0.10	-0.19	9.60	-0.36	-0.54	TO
C7LHL8	M	No data reported for this sample			9.35	-0.61	-0.91	TM
C85TPU		2.42	-0.49	-0.89	8.92	-1.04	-1.54	CE
CMRKP3		2.61	-0.29	-0.53	9.88	-0.09	-0.13	TM
DJVJP5		1.98	-0.92	-1.69	9.58	-0.38	-0.56	TO

Plastics Interlaboratory Testing Program

Analysis 790

Notched Izod Impact - ft.lbf/in

WebCode	Data Flag	Sample S53			Sample S54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
DPN185		3.33	0.42	0.78	9.67	-0.29	-0.44	BA
EFV33H		2.24	-0.66	-1.21	9.89	-0.07	-0.10	TO
EHLP4R		2.70	-0.21	-0.38	9.53	-0.43	-0.64	TM
EM9YXR		2.92	0.02	0.04	8.85	-1.11	-1.65	TM
ENDWMZ	*	2.97	0.07	0.13	8.68	-1.28	-1.90	TO
EZZA5E		2.70	-0.20	-0.36	10.49	0.53	0.79	XX
F25759		3.00	0.10	0.18	10.46	0.49	0.73	TO
FMCM93		3.36	0.46	0.84	10.30	0.34	0.51	XX
FSQYBF		2.61	-0.29	-0.53	10.14	0.18	0.27	TM
FULD1K		2.77	-0.13	-0.24	9.74	-0.22	-0.33	TM
FVXZP1		1.98	-0.92	-1.68	9.28	-0.68	-1.01	TM
GCZR7M		3.49	0.59	1.08	10.86	0.90	1.34	CE
GGCQAE		3.05	0.15	0.27	9.67	-0.29	-0.43	BA
GVKBC6		2.47	-0.43	-0.79	9.11	-0.85	-1.26	CE
H1HX9T		3.56	0.65	1.20	9.73	-0.24	-0.35	TO
H9RYF7		1.96	-0.95	-1.73	9.01	-0.96	-1.42	CE
JKNWSS		2.52	-0.38	-0.70	9.35	-0.61	-0.91	TO
JR4D6V		2.66	-0.25	-0.45	9.64	-0.32	-0.48	WZ
JSBPQS		3.11	0.21	0.39	9.77	-0.20	-0.29	XX
KSJHQB		3.27	0.36	0.67	11.33	1.36	2.03	TM
KXL6VZ		3.92	1.02	1.87	10.71	0.74	1.11	TO
LA2PN2		2.75	-0.15	-0.28	10.05	0.08	0.13	TO
LTAEGK	X	8.50	5.60	10.25	25.25	15.29	22.72	TO
MGHJ4W		2.66	-0.24	-0.44	9.73	-0.23	-0.34	CE
MWSY31		2.59	-0.31	-0.57	10.02	0.06	0.09	TM
NVE8JT		2.73	-0.17	-0.31	10.17	0.21	0.31	TO
NYHX9G		2.50	-0.40	-0.74	10.02	0.06	0.09	TO
PEXCA5		2.31	-0.59	-1.09	9.54	-0.42	-0.63	TO
Q6ZYWX		2.44	-0.47	-0.85	9.90	-0.06	-0.09	TM
Q99C1P		2.54	-0.37	-0.67	9.77	-0.19	-0.28	TM
QBN13X		2.94	0.04	0.07	10.22	0.26	0.39	TM
QVXNE9		3.00	0.10	0.18	10.81	0.85	1.26	XX

Plastics Interlaboratory Testing Program
Analysis 790

Notched Izod Impact - ft.lbf/in

WebCode	Data Flag	Sample S53			Sample S54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
R4JLQU		2.78	-0.13	-0.23	10.47	0.51	0.75	TM
S72F5C		2.59	-0.31	-0.57	10.33	0.37	0.54	TM
SM74K7		2.80	-0.10	-0.19	10.47	0.50	0.75	TM
SVK2JB		2.32	-0.58	-1.06	9.82	-0.14	-0.21	TM
T1M2B8		3.55	0.65	1.19	10.33	0.37	0.54	CE
T4G165		1.89	-1.01	-1.86	9.59	-0.37	-0.55	TM
UQLB7X	X	5.95	3.05	5.58	14.55	4.59	6.82	TO
V1PQ2W		3.59	0.69	1.26	10.92	0.96	1.42	CE
V8RTD9		3.67	0.76	1.40	10.94	0.97	1.45	TM
VP82UQ		2.77	-0.13	-0.25	10.02	0.06	0.09	TO
VXGPNB		2.69	-0.21	-0.39	9.33	-0.63	-0.93	TM
WCUNNQ		2.67	-0.23	-0.42	10.13	0.17	0.26	TO
WVJBAC		3.84	0.94	1.72	10.64	0.68	1.01	TM
WZHFCX		2.59	-0.31	-0.57	8.84	-1.12	-1.67	WY
XNEVXA		2.87	-0.03	-0.06	9.83	-0.13	-0.19	TM
YC25ED	*	1.49	-1.41	-2.59	8.10	-1.86	-2.76	CE
YHD2B1		3.46	0.56	1.02	10.26	0.30	0.45	TO
Z4C43G	*	3.74	0.84	1.54	12.04	2.08	3.09	TO
ZMFRT6		2.90	0.00	0.00	11.00	1.04	1.54	TM
ZT52BG		2.89	-0.01	-0.03	10.04	0.07	0.11	TO
ZZ1SAS		2.37	-0.54	-0.98	9.45	-0.51	-0.76	TM

Summary Statistics

Grand Means

2.902 ft.lbf/in

9.962 ft.lbf/in

Std Dev Btwn Labs

0.546 ft.lbf/in

0.673 ft.lbf/in

Statistics based on 78 of 85 reporting participants

Sample S53: ABS/PC & Sample S54: ABS/PC

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

Comments on assigned Data Flags for Test #790

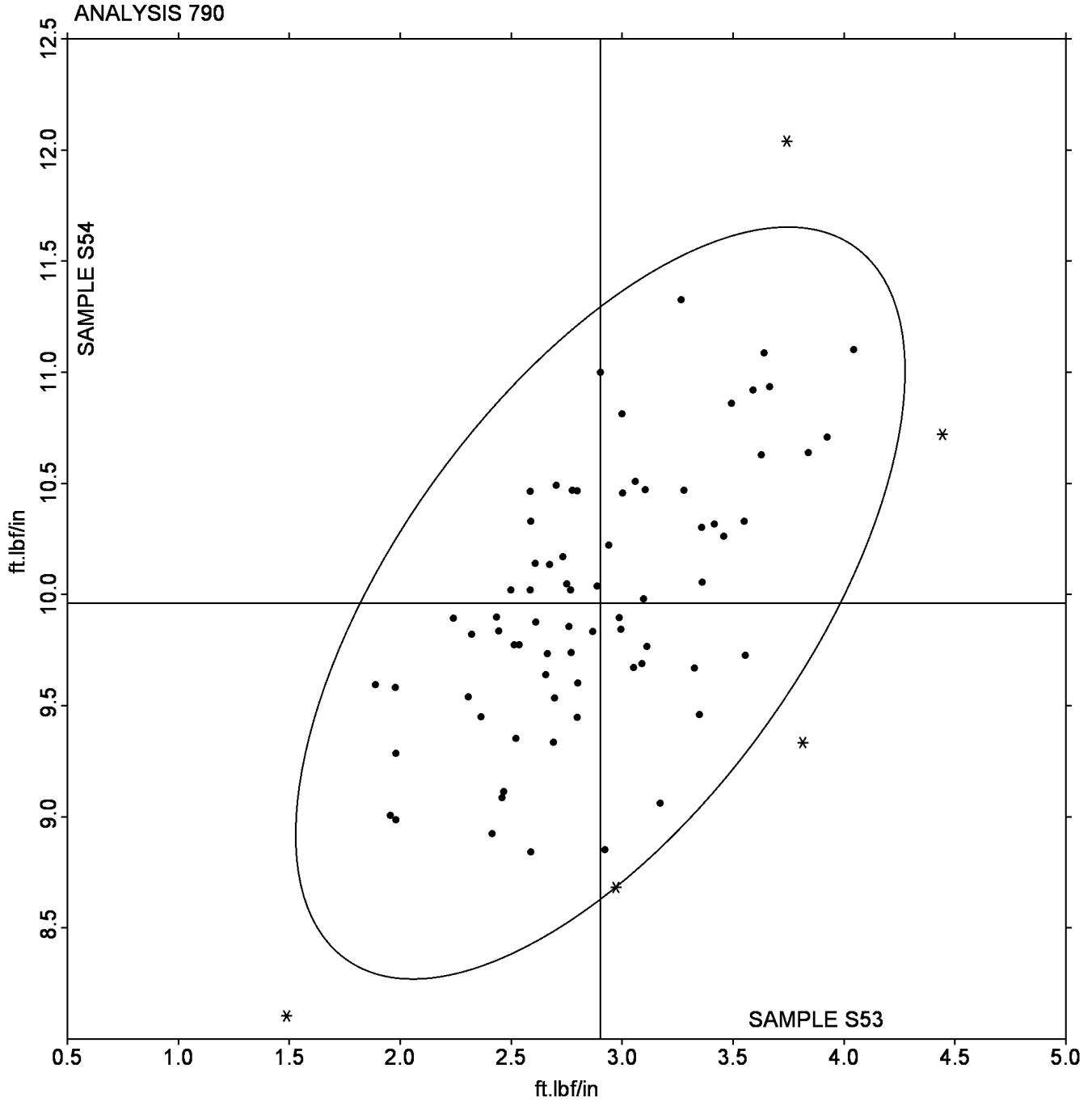
- 4EEMEC (X) - Data for both samples are low. Data may be off by a factor of 10.
6P9AYZ (X) - Inconsistent in testing between samples, data for Sample S54 are low.
94FNP1 (X) - Data for both samples are high.
98DM1Y (X) - Inconsistent in testing between samples. Data appear to be switched between sample sets.
C7LHL8 (M) - Laboratory did not submit data for Sample S53.
LTAEGK (X) - Data for both samples are high.
UQLB7X (X) - Data for both samples are high.

Instrument Code List as Reported by the Labs

- | | |
|-------------------|---|
| (BA) - Baldwin | (CE) - Ceast |
| (CS) - CSI | (DY) - Dynatup |
| (MI) - Mitsubishi | (RR) - Ray-Ran Polymer Testing Equipment |
| (TM) - TMI | (TO) - Tinius Olsen |
| (TY) - Toyoseiki | (WY) - Yasuda Seiki |
| (WZ) - Zwick | (XX) - Instrument manufacturer not specified by lab |

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

Grand Mean Sample S53: 2.9019 ft.lbf/in Grand Mean Sample S54: 9.9616 ft.lbf/in



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

Analysis 792

Notched Charpy Impact - kJ/m²

WebCode	Data Flag	Sample M53			Sample M54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1Q1P9A		22.26	-0.82	-0.56	21.42	-1.31	-0.90	TO
27C4GV		23.10	0.02	0.01	23.33	0.60	0.41	TO
3NKC2V		22.11	-0.98	-0.67	21.68	-1.05	-0.72	TM
4AE271	*	19.07	-4.01	-2.77	18.09	-4.64	-3.19	TM
4NEVNB		25.15	2.07	1.43	24.32	1.59	1.09	TM
5MNHXJ		24.59	1.50	1.04	23.04	0.31	0.21	BA
77421K		22.95	-0.13	-0.09	22.68	-0.05	-0.03	XX
7X7H3X		23.26	0.18	0.12	22.88	0.15	0.10	TO
83GXCM		22.90	-0.18	-0.13	22.86	0.13	0.09	TO
9PLQFY		23.83	0.75	0.52	23.00	0.27	0.19	CE
9U5R1W		23.07	-0.02	-0.01	23.03	0.30	0.21	TM
A3FYRX		21.26	-1.82	-1.26	21.76	-0.97	-0.67	CE
C7BCWC		22.96	-0.12	-0.08	22.08	-0.65	-0.44	TM
C9BP2Y		22.87	-0.21	-0.14	23.22	0.49	0.34	TM
CLTV97		23.22	0.14	0.10	23.00	0.27	0.18	WZ
CTZTGJ		22.63	-0.45	-0.31	23.00	0.27	0.18	TY
DBFCZ8		24.71	1.63	1.12	23.42	0.69	0.48	TM
DN6N8S		24.56	1.48	1.02	24.96	2.23	1.53	TM
EA6B88		22.18	-0.90	-0.62	22.60	-0.13	-0.09	CE
EQ6PHH		22.39	-0.69	-0.48	21.57	-1.16	-0.80	KF
JU144U		24.22	1.14	0.79	22.66	-0.07	-0.05	CE
L432BU		23.21	0.12	0.09	22.47	-0.26	-0.18	TM
NWWPAW		25.74	2.66	1.84	25.88	3.15	2.16	CE
P42LAK		21.84	-1.25	-0.86	21.90	-0.83	-0.57	TM
P5QQ86		22.60	-0.48	-0.33	21.30	-1.43	-0.98	TM
PH3271		21.69	-1.40	-0.96	21.27	-1.46	-1.00	TO
QZAVV2		25.33	2.25	1.55	24.13	1.40	0.96	TM
RJ2NQC		21.58	-1.50	-1.04	21.99	-0.74	-0.51	TM
SS9VFC		22.27	-0.81	-0.56	21.62	-1.11	-0.76	WZ
U2XS29	X	19.00	-4.08	-2.82	22.30	-0.43	-0.30	CE
UHQUTT		22.64	-0.45	-0.31	22.89	0.16	0.11	TO
VM3FGB		23.40	0.31	0.22	22.25	-0.48	-0.33	TO

**Plastics Interlaboratory Testing Program
Analysis 792**

Notched Charpy Impact - kJ/m²

WebCode	Data Flag	Sample M53			Sample M54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
WFATL4	X	89.06	65.98	45.53	114.54	91.81	63.02	CE
XZLUMH		24.47	1.39	0.96	23.89	1.16	0.79	CE
YBNAMD	*	25.83	2.75	1.90	26.40	3.67	2.52	DN
ZGX9SH		20.89	-2.19	-1.51	22.24	-0.49	-0.34	WZ

Summary Statistics

Grand Means

23.081 kJ/m²

22.731 kJ/m²

Std Dev Btwn Labs

1.449 kJ/m²

1.457 kJ/m²

Statistics based on 34 of 36 reporting participants

Sample M53: HIPS & Sample M54: HIPS

Comments on assigned Data Flags for Test #792

U2XS29 (X) - Inconsistent in testing between samples, data for Sample M53 are low.

WFATL4 (X) - Data for both samples are high. Also inconsistent in testing within both samples.

Instrument Code List as Reported by the Labs

(BA) - Baldwin

(CE) - Ceast

(DN) - Dynisco

(KF) - Karl Frank GmbH

(TM) - TMI

(TO) - Tinius Olsen

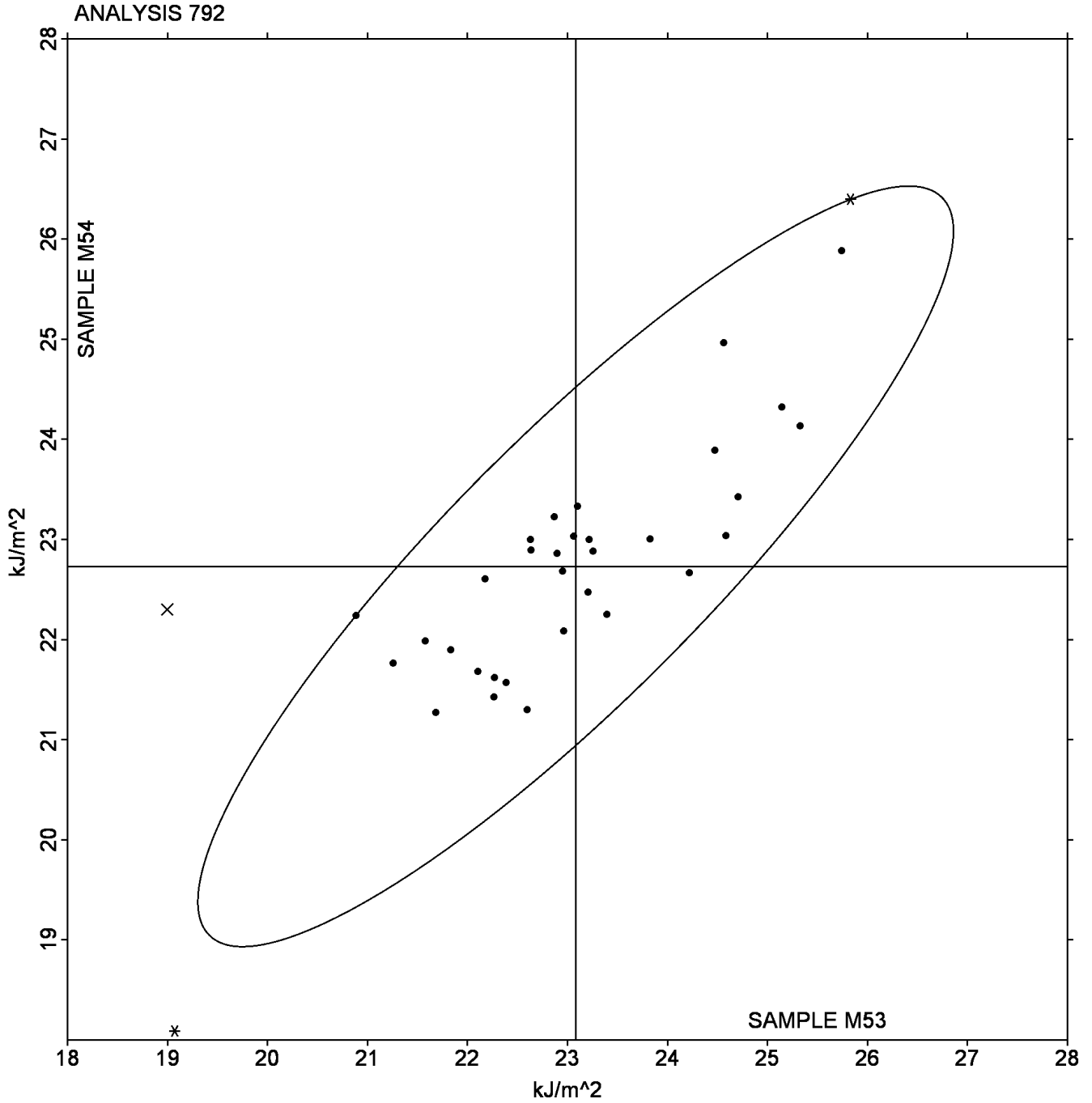
(TY) - Toyoseiki

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample M53: 23.081 kJ/m² Grand Mean Sample M54: 22.731 kJ/m²



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

Plastics Interlaboratory Testing Program
Analysis 710

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

WebCode	Data Flag	Sample E53			Sample E54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1RE82K		79.20	0.94	0.87	102.63	1.70	1.05	XA
1YGEUU		79.18	0.92	0.84	102.00	1.07	0.66	XX
2Q6K9Z		78.55	0.29	0.27	101.03	0.10	0.06	AT
3YUGST		76.98	-1.28	-1.18	99.40	-1.53	-0.94	CS
4NXTRB		78.23	-0.03	-0.03	100.65	-0.28	-0.17	TO
4YLITS		77.85	-0.41	-0.37	101.13	0.20	0.12	TO
6UDM24		80.25	1.99	1.83	103.30	2.37	1.46	AT
7Z628R	*	81.33	3.08	2.83	103.68	2.75	1.69	DN
869QYJ		76.20	-2.06	-1.89	99.05	-1.88	-1.16	CE
8GEWBB	*	77.65	-0.61	-0.56	102.55	1.62	1.00	TO
9BEM6X		77.28	-0.98	-0.90	100.30	-0.63	-0.39	TO
A4MLZV		76.58	-1.68	-1.55	98.68	-2.25	-1.39	CE
B213TW		78.35	0.09	0.09	101.60	0.67	0.42	XX
BDUHLD		77.30	-0.96	-0.88	99.35	-1.58	-0.97	CE
BQXDD9		78.23	-0.03	-0.03	101.08	0.15	0.09	AT
D9JWDK		80.83	2.57	2.36	103.48	2.55	1.57	AT
DBLKAG		78.90	0.64	0.59	102.88	1.95	1.20	TO
EAZVGF		78.33	0.07	0.06	99.80	-1.13	-0.69	TO
GCLINH		77.05	-1.21	-1.11	100.03	-0.90	-0.56	CE
GVT3R9		78.68	0.42	0.38	103.45	2.52	1.56	CS
HZRBNA		77.88	-0.38	-0.35	101.08	0.15	0.09	CE
J11M6Z		78.08	-0.18	-0.17	99.05	-1.88	-1.16	DN
KANPHT		78.15	-0.11	-0.10	100.58	-0.35	-0.22	XX
KC2A7M		79.88	1.62	1.49	103.48	2.55	1.57	TO
KL8N2Q		78.80	0.54	0.50	102.15	1.22	0.75	XX
LG3DD2		76.98	-1.28	-1.18	98.28	-2.65	-1.63	TO
LLIGYD	X	82.78	4.52	4.15	100.58	-0.35	-0.22	TO
LYYQJ8	X	71.70	-6.56	-6.03	90.68	-10.25	-6.32	TO
M63N9R		77.28	-0.98	-0.90	98.88	-2.05	-1.26	RO
MXTSAY		79.00	0.74	0.68	101.50	0.57	0.35	XA
PILYQF		77.28	-0.98	-0.90	99.25	-1.68	-1.03	CE
QG33BT	X	81.63	3.37	3.10	100.45	-0.48	-0.29	TO

Plastics Interlaboratory Testing Program
Analysis 710

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

WebCode	Data Flag	Sample E53			Sample E54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
RYUMAK		78.43	0.17	0.16	101.08	0.15	0.09	EM
S3FZAL		79.50	1.24	1.14	103.10	2.17	1.34	EM
SWARLY		78.58	0.32	0.29	101.08	0.15	0.09	AT
SXYCS3		77.93	-0.33	-0.30	101.80	0.87	0.54	CE
T24HX7		78.05	-0.21	-0.19	100.70	-0.23	-0.14	CE
TFSG1G		80.08	1.82	1.67	103.15	2.22	1.37	AT
TK8PPF		79.25	0.99	0.91	102.05	1.12	0.69	TO
TW368F		77.35	-0.91	-0.83	99.00	-1.93	-1.19	XX
UKQ8VZ	X	78.58	0.32	0.29	98.25	-2.68	-1.65	RR
VGHBTH		78.53	0.27	0.25	101.08	0.15	0.09	AT
VJU1ET	X	78.23	-0.03	-0.03	95.53	-5.40	-3.33	AT
VZZJYC		78.03	-0.23	-0.21	99.85	-1.08	-0.66	AT
WDN4RS		77.85	-0.41	-0.37	100.33	-0.60	-0.37	TO
WFE8BB		79.13	0.87	0.80	102.90	1.97	1.22	AT
WLPW3E		77.93	-0.33	-0.30	100.70	-0.23	-0.14	TO
X7E4RL		77.65	-0.61	-0.56	99.78	-1.15	-0.71	TO
XSQSL6		79.28	1.02	0.94	103.03	2.10	1.29	DN
YW78T4		77.55	-0.71	-0.65	100.43	-0.50	-0.31	TO
ZGP1DH		78.15	-0.11	-0.10	99.45	-1.48	-0.91	CE
ZL4SYX		77.28	-0.98	-0.90	99.40	-1.53	-0.94	CE
ZV9K35		77.08	-1.18	-1.09	98.30	-2.63	-1.62	TY
ZW5WST		76.78	-1.48	-1.36	97.95	-2.98	-1.83	CE

Summary Statistics

Grand Means

78.256 Degrees C

100.926 Degrees C

Std Dev Btwn Labs

1.088 Degrees C

1.622 Degrees C

Statistics based on 49 of 54 reporting participants

Sample E53: ABS/PC & Sample E54: ABS/PC

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

Comments on assigned Data Flags for Test #710

LL1GYD (X) - Inconsistent in testing between samples, data for Sample E53 are high.

LYYQJ8 (X) - Data for both samples are low.

QG33BT (X) - Inconsistent in testing between samples, data for Sample E53 are high. Also inconsistent in testing within both sample sets.

UKQ8VZ (X) - Inconsistent in testing between samples.

VJU1ET (X) - Inconsistent in testing between samples, data for Sample E54 are low.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(DN) - DYNISCO

(EM) - Empire-Vortex

(RO) - Rosand

(RR) - Ray-Ran

(TO) - Tinius Olsen

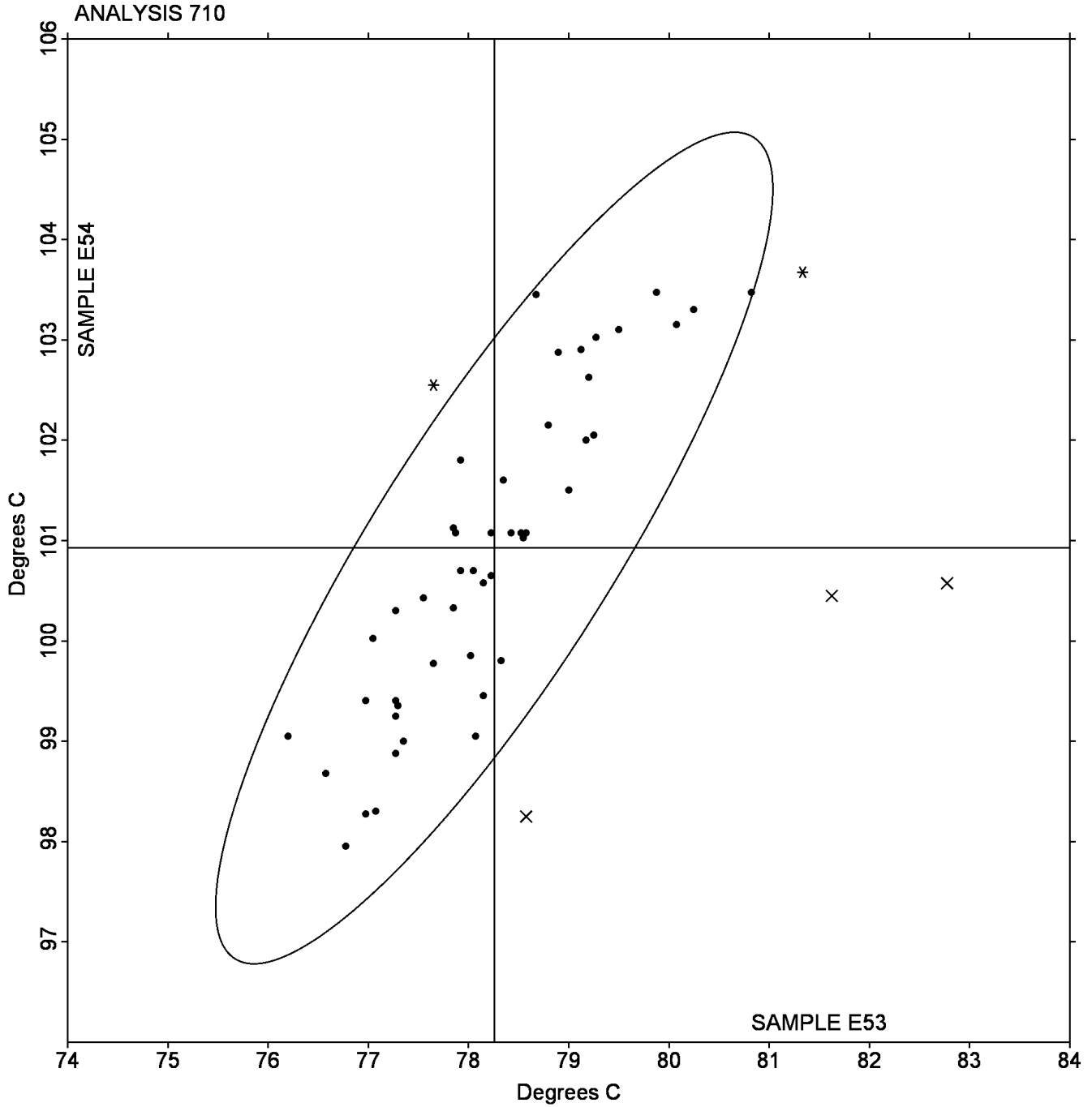
(TY) - Toyoseiki

(XA) - Special In-House Instrument

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample E53: 78.256 Degrees C Grand Mean Sample E54: 100.93 Degrees C



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

Plastics Interlaboratory Testing Program
Analysis 711

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

WebCode	Data Flag	Sample G53			Sample G54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1KEZJY		114.1	-0.1	-0.04	96.5	1.4	0.50	CE
2EWX4T		113.2	-1.0	-0.36	91.9	-3.2	-1.17	TO
2JSP94		113.4	-0.8	-0.28	94.5	-0.6	-0.20	CE
322QHJ	X	96.8	-17.4	-6.29	81.8	-13.3	-4.80	RR
4K2MKR		115.4	1.3	0.45	97.2	2.1	0.77	CE
5U8J8V		118.8	4.6	1.66	100.6	5.5	2.00	EM
6JTW4D	*	112.8	-1.4	-0.50	99.8	4.7	1.69	TO
8UPSA8		108.2	-6.0	-2.18	92.7	-2.4	-0.88	CE
AH8A4M		114.6	0.4	0.14	94.0	-1.1	-0.39	CE
AU4KLU		113.3	-0.9	-0.33	93.5	-1.6	-0.56	TO
BHG1DQ		113.7	-0.5	-0.18	94.0	-1.1	-0.41	TO
D4SM4M		118.4	4.2	1.52	100.0	4.9	1.76	AT
D7JKXC		114.8	0.6	0.23	94.0	-1.1	-0.38	AT
F96SL7		108.4	-5.7	-2.08	89.5	-5.6	-2.01	TO
FN1GCX		114.7	0.6	0.20	96.0	0.9	0.32	EM
GBDUC3		118.2	4.1	1.46	96.7	1.6	0.58	TO
H4VTKW	X	120.5	6.3	2.27	109.4	14.3	5.17	TO
HA3267		112.5	-1.6	-0.60	92.1	-3.0	-1.07	TO
KX1J8B		114.8	0.6	0.22	95.4	0.3	0.11	CS
LXS3AA		113.7	-0.4	-0.16	93.2	-1.9	-0.68	TO
MJX1HN		114.8	0.6	0.21	91.6	-3.5	-1.27	EM
QSVMEC		116.6	2.4	0.86	95.4	0.3	0.12	XX
R6LPWX		118.1	3.9	1.41	97.2	2.1	0.77	AT
X1M19R		112.6	-1.5	-0.56	92.8	-2.3	-0.84	CE
XBX7Q5		115.4	1.2	0.43	97.1	2.0	0.71	AT
XHWTLK		109.3	-4.8	-1.75	94.3	-0.8	-0.27	TO
YEZGPD		114.8	0.6	0.22	97.3	2.2	0.79	AT

**Plastics Interlaboratory Testing Program
Analysis 711**

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

Summary Statistics

Grand Means

114.17 Degrees C

95.09 Degrees C

Std Dev Btwn Labs

2.77 Degrees C

2.77 Degrees C

Statistics based on 25 of 27 reporting participants

Sample G53: PP & Sample G54: PP

Comments on assigned Data Flags for Test #711

322QHQ (X) - Data for both samples are low.

H4VTKW (X) - Inconsistent in testing between samples, data for Sample G54 are high. Also inconsistent in testing within Sample G53.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(EM) - Empire-Vortex

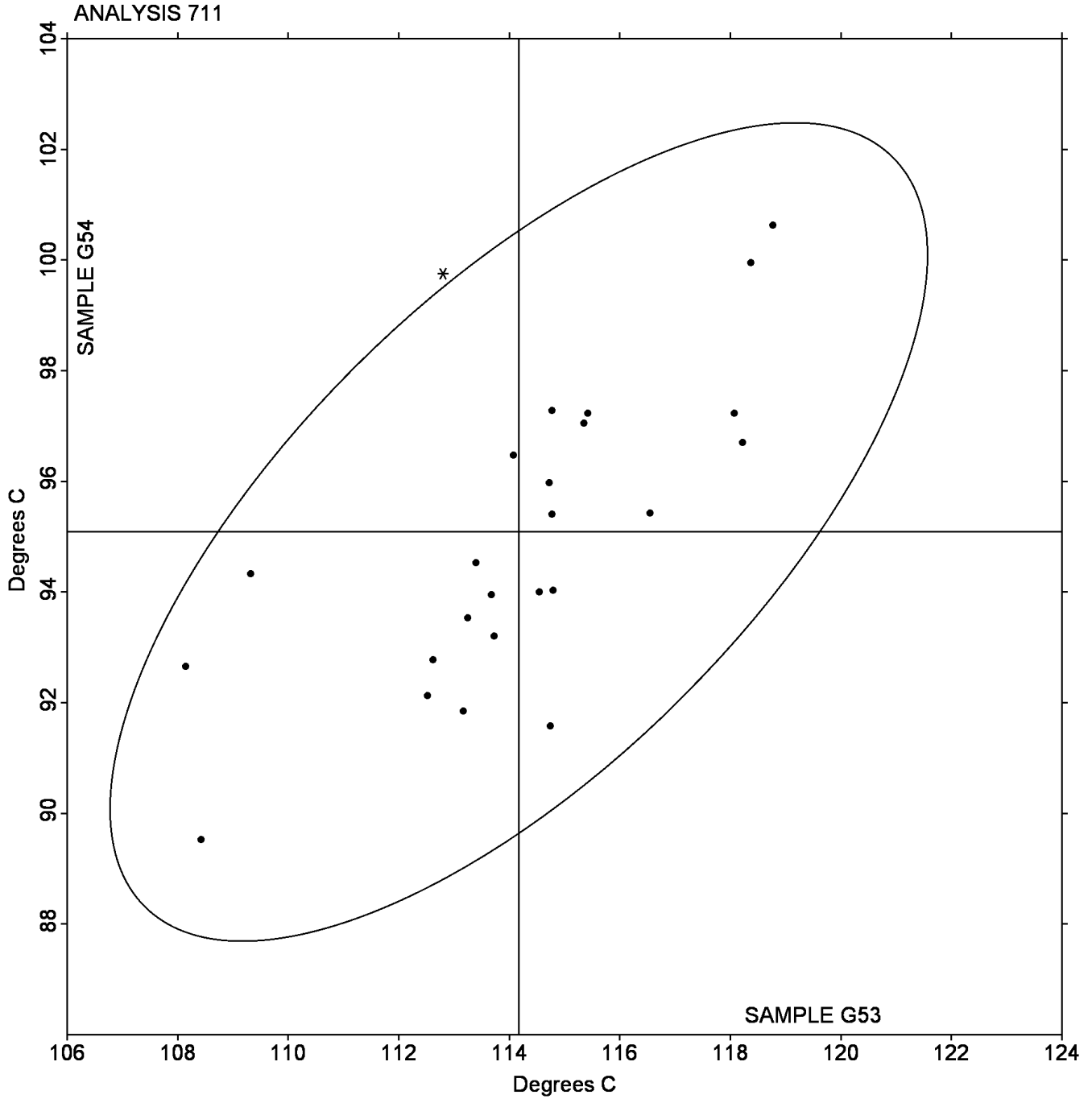
(RR) - Ray-Ran

(TO) - Tinius Olsen

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample G53: 114.17 Degrees C Grand Mean Sample G54: 95.085 Degrees C



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

Plastics Interlaboratory Testing Program
Analysis 712

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

WebCode	Data Flag	Sample N53			Sample N54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1LQKRN		76.85	-0.69	-0.69	77.90	-0.75	-0.71	TO
1VNLQK	X	79.00	1.46	1.44	81.50	2.85	2.71	AT
2C23UK		76.58	-0.97	-0.96	77.83	-0.82	-0.78	TO
5ZHRYZ		78.40	0.86	0.85	79.65	1.00	0.95	AT
6GW83Y		77.73	0.18	0.18	78.68	0.03	0.03	TO
6ZZ8L5		79.68	2.13	2.11	81.28	2.63	2.49	AT
73ZKXX		75.45	-2.09	-2.07	76.30	-2.35	-2.23	CE
7E4YRP		76.93	-0.62	-0.61	78.00	-0.65	-0.61	TO
7JTKBW		76.05	-1.49	-1.48	77.55	-1.10	-1.04	CE
9UBQMJ		78.23	0.68	0.67	79.05	0.40	0.38	AT
BYWL51		77.13	-0.42	-0.41	77.85	-0.80	-0.76	XX
CNG9RQ	*	78.90	1.36	1.34	80.78	2.13	2.02	EM
D6895L		79.13	1.58	1.56	79.98	1.33	1.26	EM
DR2BHW		76.70	-0.84	-0.83	78.28	-0.37	-0.35	XX
E5AD5Q	X	74.65	-2.89	-2.86	78.10	-0.55	-0.52	CE
H9DN1V		79.45	1.91	1.89	80.33	1.68	1.59	EM
HMH159		78.30	0.76	0.75	79.50	0.85	0.81	AT
LAL41R		78.60	1.06	1.04	79.50	0.85	0.81	AT
M318WF		76.70	-0.84	-0.83	77.85	-0.80	-0.76	AT
MFQGN8		76.73	-0.82	-0.81	77.40	-1.25	-1.18	CS
MJ3MKF		76.63	-0.92	-0.91	78.38	-0.27	-0.26	XX
NW338B		77.45	-0.09	-0.09	78.13	-0.52	-0.50	TO
RHMJJD		76.90	-0.64	-0.64	78.55	-0.10	-0.09	CE
SU1RFS		76.10	-1.44	-1.43	77.18	-1.47	-1.40	TO
TEA377		77.70	0.16	0.15	78.70	0.05	0.05	CE
TMCGGU		78.23	0.68	0.67	78.63	-0.02	-0.02	AT
TTUFRT		78.25	0.71	0.70	79.13	0.48	0.45	AT
TU3CT5		76.98	-0.57	-0.56	77.68	-0.97	-0.92	DN
TZS6XC		77.60	0.06	0.06	78.98	0.33	0.31	TY
UV8629		77.43	-0.12	-0.12	78.75	0.10	0.10	CE
VDEF9E		77.18	-0.37	-0.36	78.25	-0.40	-0.38	AT
WR8QN6		77.63	0.08	0.08	78.93	0.28	0.26	AT

**Plastics Interlaboratory Testing Program
Analysis 712**

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

WebCode	Data Flag	Sample N53			Sample N54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XXM6TR		77.45	-0.09	-0.09	78.53	-0.12	-0.12	CE
YU674S	X	75.80	-1.74	-1.72	80.70	2.05	1.95	AT
ZG6WX5		78.40	0.86	0.85	79.28	0.63	0.60	AT

Summary Statistics

Grand Means

77.544 Degrees C

78.648 Degrees C

Std Dev Btwn Labs

1.011 Degrees C

1.054 Degrees C

Statistics based on 32 of 35 reporting participants

Sample N53: HIPS & Sample N54: HIPS

Comments on assigned Data Flags for Test #712

1VNLQK (X) - Inconsistent in testing between samples, data for Sample N54 are high.

E5AD5Q (X) - Inconsistent in testing between samples, data for Sample N53 are low. Also inconsistent in testing within both sample sets.

YU674S (X) - Inconsistent in testing between samples and inconsistent in testing within Sample N53.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(DN) - DYNISCO

(EM) - Empire-Vortex

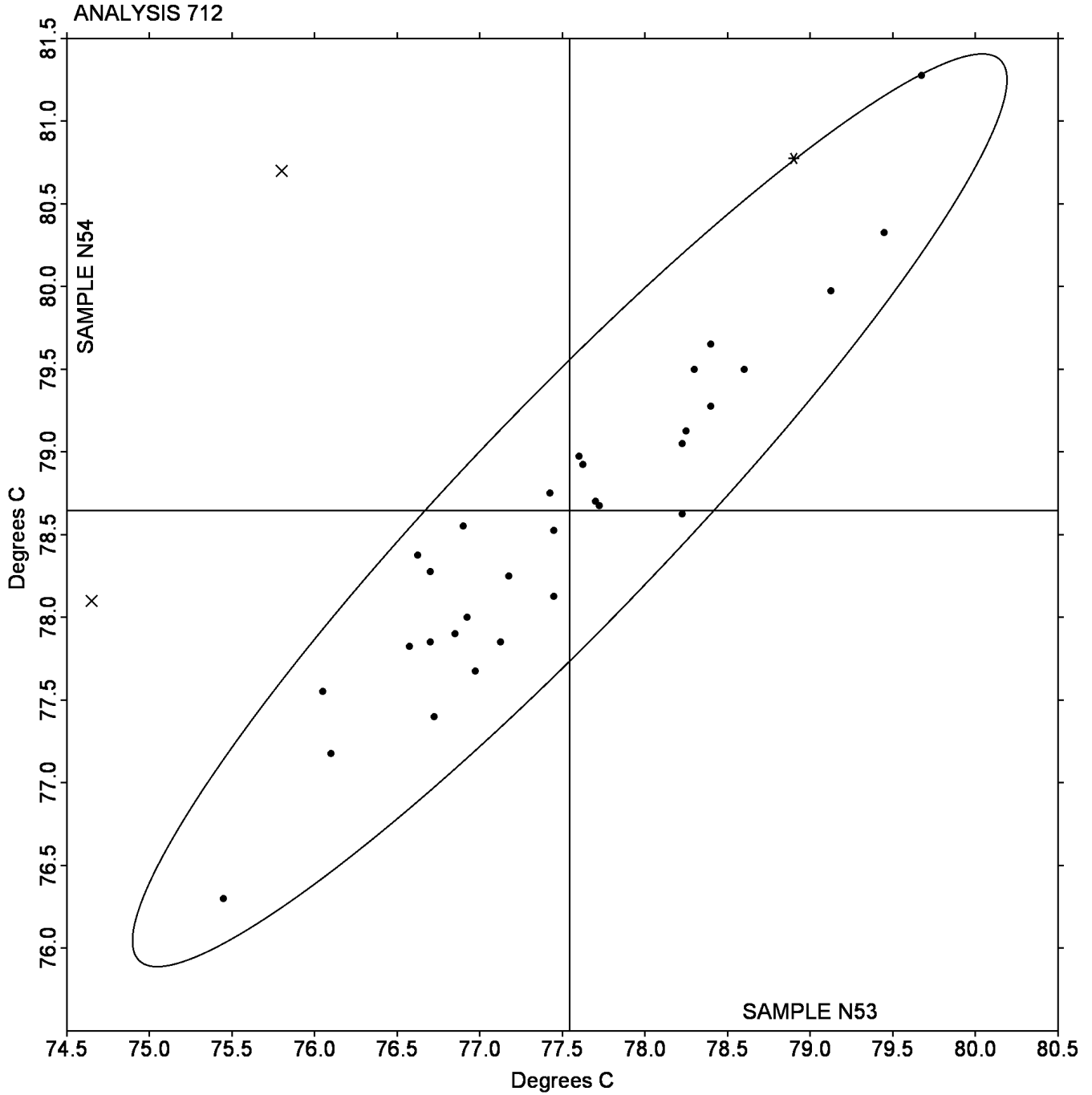
(TO) - Tinius Olsen

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample N53: 77.544 Degrees C Grand Mean Sample N54: 78.648 Degrees C



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

Analysis 715

Vicat Softening Temperature (Rate A)

WebCode	Data Flag	Sample H53			Sample H54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1GB41V		99.62	-0.15	-0.17	135.90	-0.18	-0.21	CE
3LL2J2		99.07	-0.70	-0.79	135.87	-0.21	-0.25	DN
4653BF		99.73	-0.04	-0.04	136.08	0.01	0.01	RO
5DMZNU		99.07	-0.70	-0.79	134.87	-1.21	-1.46	AT
75CFCG		99.25	-0.52	-0.58	135.30	-0.78	-0.94	TO
7ZL63H		98.65	-1.12	-1.26	135.20	-0.88	-1.06	CE
8LRY6U		99.53	-0.24	-0.27	136.57	0.49	0.59	XX
979GTA		99.32	-0.45	-0.51	135.57	-0.51	-0.62	CE
9KL66Z		99.58	-0.19	-0.21	135.38	-0.69	-0.84	CE
9NWP1G		99.87	0.10	0.11	136.72	0.64	0.77	AT
9ZV1AU		98.78	-0.99	-1.11	135.22	-0.86	-1.04	CE
ABRDJR	X	102.58	2.81	3.16	136.77	0.69	0.83	TO
ABVUTB		98.43	-1.34	-1.50	135.42	-0.66	-0.80	TO
G7RX6H		100.38	0.61	0.69	137.02	0.94	1.14	CE
H4NDRX		101.37	1.60	1.79	137.82	1.74	2.10	EM
HFH83B		99.42	-0.35	-0.40	135.58	-0.49	-0.60	TO
J3XQLU		101.87	2.10	2.35	138.03	1.96	2.36	EM
KZGTKA	X	104.32	4.55	5.10	137.93	1.86	2.24	RR
LFE1S3		101.20	1.43	1.60	137.07	0.99	1.20	XX
LVL7JZ		99.75	-0.02	-0.02	136.27	0.19	0.23	CE
P7FVPX		99.50	-0.27	-0.30	135.72	-0.36	-0.43	AT
PJKRE7		99.27	-0.50	-0.57	135.45	-0.63	-0.76	CE
Q8RY6E		99.78	0.01	0.01	136.35	0.27	0.33	AT
RXGUFH		99.05	-0.72	-0.81	134.98	-1.09	-1.32	AT
RZY9J5		99.72	-0.05	-0.06	136.47	0.39	0.47	TO
TCUZPM		101.28	1.51	1.70	136.98	0.91	1.10	TO
U3LSK7		100.33	0.56	0.63	136.67	0.59	0.71	CE
WXCMH4	*	101.00	1.23	1.38	135.95	-0.13	-0.15	EM
X1Q5Y7		99.00	-0.77	-0.86	135.63	-0.44	-0.54	TY

Analysis 715

Vicat Softening Temperature (Rate A)

Summary Statistics**Grand Means**

99.771 Degrees C

136.077 Degrees C

Std Dev Btwn Labs

0.891 Degrees C

0.827 Degrees C

Statistics based on 27 of 29 reporting participants

Sample H53: ABS/PC & Sample H54: ABS/PC

Comments on assigned Data Flags for Test #715

ABRDJR (X) - Inconsistent in testing between samples, data for Sample H53 are high.

KZGTKA (X) - Inconsistent in testing between samples, data for Sample H53 are high.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(DN) - DYNISCO

(EM) - Empire-Vortex

(RO) - Rosand

(RR) - Ray-Ran

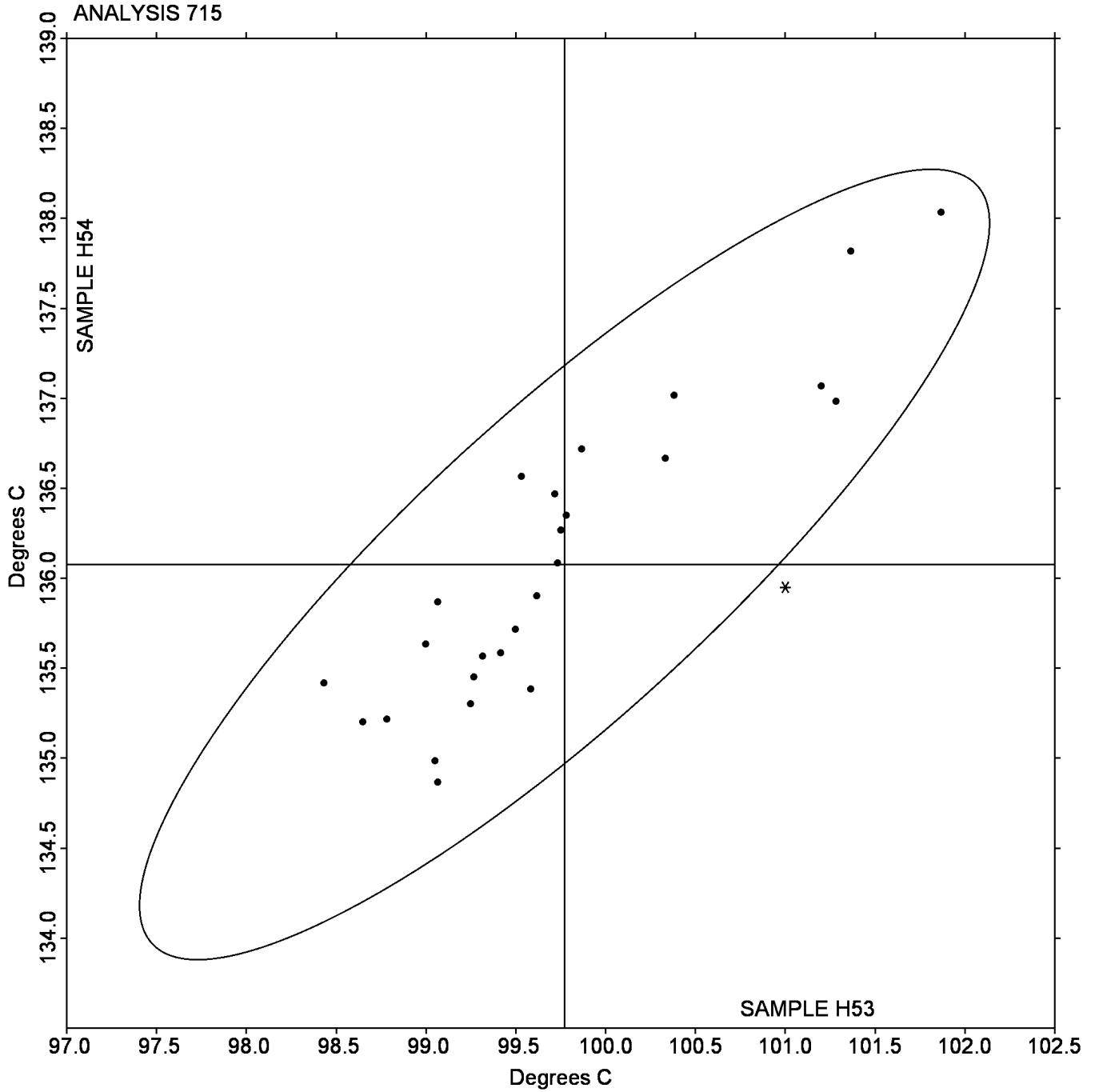
(TO) - Tinius Olsen

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample H53: 99.771 Degrees C Grand Mean Sample H54: 136.08 Degrees C



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

Plastics Interlaboratory Testing Program

Analysis 716

Vicat Softening Temperature (Rate B)

WebCode	Data Flag	Sample R53			Sample R54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
12PN8K		100.75	-1.54	-1.62	137.02	-1.13	-1.19	AT
1GCB9X		101.23	-1.05	-1.11	137.07	-1.08	-1.14	CE
2S43UL		100.92	-1.37	-1.45	137.38	-0.77	-0.81	TO
2TQ7CL		101.03	-1.25	-1.32	137.07	-1.08	-1.14	TO
3PT1C9		103.55	1.26	1.33	139.43	1.28	1.35	EM
4CN1TV		103.20	0.91	0.96	139.54	1.38	1.46	CE
62PCHJ		103.18	0.90	0.95	139.00	0.85	0.89	AT
7B38MH	*	102.48	0.19	0.20	136.58	-1.57	-1.65	XX
8GRETH		103.20	0.91	0.96	138.67	0.52	0.54	XX
9WAJ8W		103.03	0.75	0.79	138.45	0.30	0.31	AT
AAA4KY		102.50	0.21	0.22	138.13	-0.02	-0.02	CE
AY45VR		103.52	1.23	1.30	139.35	1.20	1.26	XX
BA6P85		100.63	-1.65	-1.75	136.58	-1.57	-1.65	TO
GHTM3E		101.57	-0.72	-0.76	138.40	0.25	0.26	TO
GHUNWC		101.38	-0.90	-0.95	137.12	-1.03	-1.09	TO
JSP2WV		103.88	1.60	1.68	140.07	1.92	2.01	EM
LZJYCB		101.68	-0.60	-0.64	137.63	-0.52	-0.54	CE
MPTMTP		102.05	-0.24	-0.25	137.85	-0.30	-0.32	XX
N25LKG		101.75	-0.54	-0.57	137.77	-0.38	-0.40	DN
N4XEVS		102.80	0.51	0.54	139.43	1.28	1.35	TO
PVCNND	X	104.43	2.15	2.26	143.37	5.22	5.48	TO
Q3PNJV		102.05	-0.24	-0.25	138.23	0.08	0.09	CE
S14SKS		102.13	-0.15	-0.16	138.25	0.10	0.10	CE
SQE1P9		103.68	1.40	1.47	138.95	0.80	0.84	EM
SYMXAS		102.02	-0.27	-0.29	137.90	-0.25	-0.26	RO
UYMGP7		103.00	0.71	0.75	138.33	0.18	0.19	CE
WWPV4E		102.30	0.01	0.01	137.43	-0.72	-0.75	AT
XEQ3QK		102.23	-0.05	-0.06	138.45	0.30	0.31	TY

Analysis 716

Vicat Softening Temperature (Rate B)

Summary Statistics**Grand Means**

102.287 Degrees C

138.151 Degrees C

Std Dev Btwn Labs

0.948 Degrees C

0.951 Degrees C

Statistics based on 27 of 28 reporting participants

Sample R53: ABS/PC & Sample R54: ABS/PC

Comments on assigned Data Flags for Test #716

PVCNND (X) - Inconsistent in testing between samples, data for Sample R54 are high.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(DN) - DYNISCO

(EM) - Empire-Vortex

(RO) - Rosand

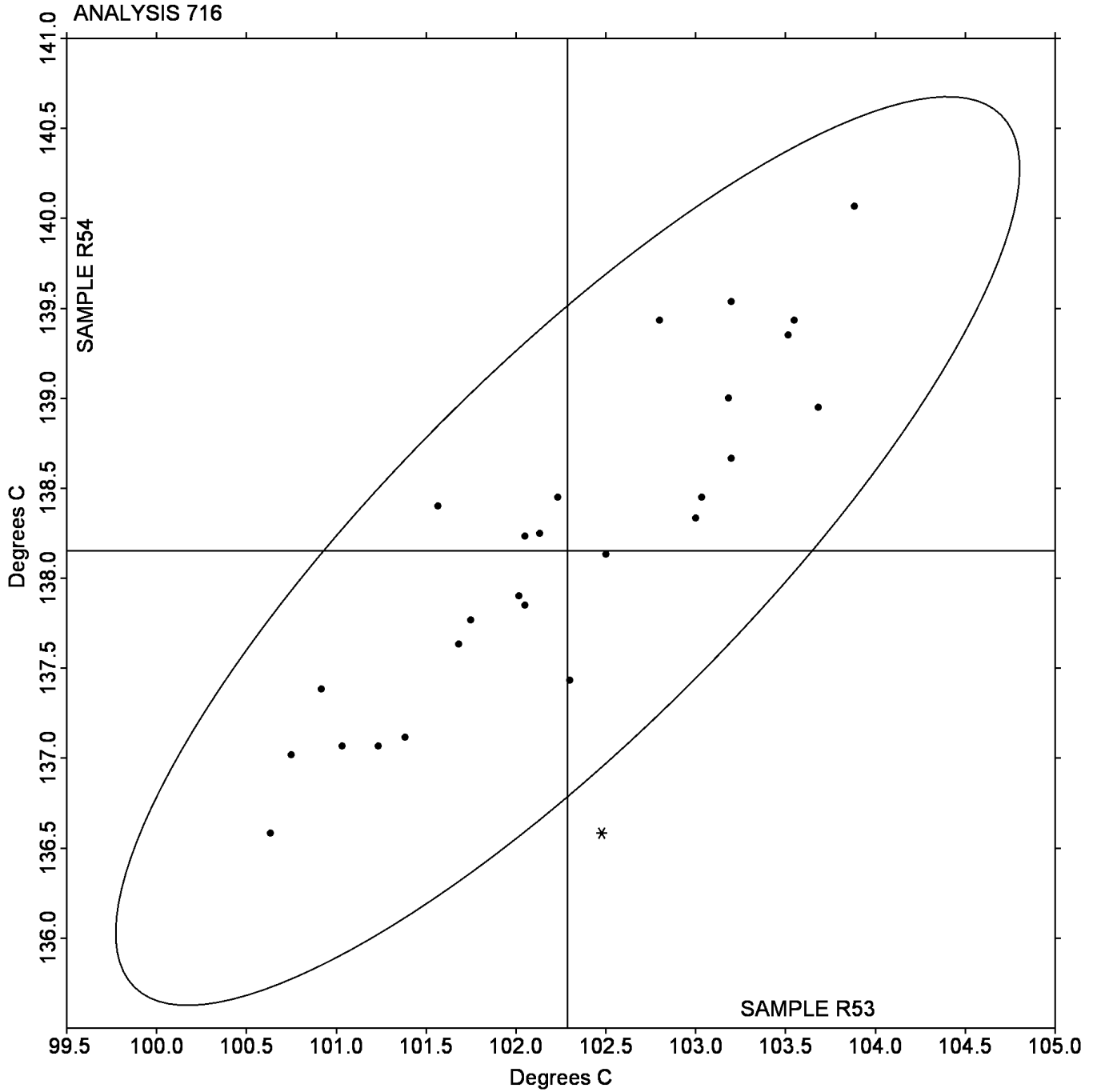
(TO) - Tinius Olsen

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample R53: 102.29 Degrees C Grand Mean Sample R54: 138.15 Degrees C



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

Analysis 750

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

WebCode	Data Flag	Sample X53			Sample X54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
18FPYZ		11.39	0.77	1.16	15.41	1.19	1.35	TO
1BJ2SQ		10.40	-0.22	-0.33	13.75	-0.47	-0.53	TO
1HBMZY		9.25	-1.37	-2.07	12.98	-1.24	-1.40	TO
1M5JPQ		10.40	-0.22	-0.33	15.45	1.23	1.40	TO
1SBNJB		9.40	-1.22	-1.84	13.00	-1.22	-1.38	TO
1UJSBD		10.45	-0.17	-0.25	14.20	-0.02	-0.02	TO
1UYAYS		11.40	0.78	1.18	15.80	1.58	1.79	TO
1WLZ5Q		11.59	0.97	1.47	15.19	0.97	1.10	TO
1XMNUG		10.27	-0.35	-0.53	13.28	-0.94	-1.06	KA
2BR4ZA		10.18	-0.44	-0.67	13.55	-0.67	-0.75	CS
36CSB8		10.22	-0.40	-0.60	13.20	-1.02	-1.15	WZ
37GSRM		11.75	1.13	1.71	14.85	0.63	0.72	TO
3H78YP		10.90	0.28	0.43	15.15	0.93	1.06	GO
4F5X55		9.60	-1.02	-1.54	13.10	-1.12	-1.26	GO
4UTG4N		9.65	-0.97	-1.46	12.52	-1.70	-1.92	TO
5AFM11		10.48	-0.14	-0.22	13.90	-0.32	-0.36	KA
5WD7Q6		10.73	0.11	0.16	14.18	-0.04	-0.05	QT
6H91CL		10.95	0.33	0.50	14.85	0.63	0.72	TO
6PFNC2		11.20	0.58	0.88	14.45	0.23	0.26	TO
71Z8TA		9.60	-1.02	-1.54	13.25	-0.97	-1.09	CE
7E4FP7		10.40	-0.22	-0.33	14.60	0.38	0.43	XX
7GUM6J		10.65	0.03	0.05	14.70	0.48	0.55	XX
7VB1GA		9.75	-0.87	-1.31	13.30	-0.92	-1.04	TO
8CTGZX		10.35	-0.27	-0.40	13.95	-0.27	-0.30	TO
932AWX		10.40	-0.22	-0.33	13.40	-0.82	-0.92	TO
95XLBZ		11.55	0.93	1.41	15.40	1.18	1.34	XX
9FZ3Z8		9.80	-0.82	-1.24	13.80	-0.42	-0.47	TO
A98SUX		10.29	-0.33	-0.50	13.57	-0.65	-0.74	TO
B6S2J6		10.55	-0.07	-0.10	14.40	0.18	0.21	TO
BAEE4V		11.25	0.63	0.96	15.15	0.93	1.06	TO
BK2H3H		11.07	0.45	0.68	13.82	-0.40	-0.45	TO
BTXALA		10.87	0.25	0.38	13.81	-0.41	-0.46	TO

Plastics Interlaboratory Testing Program
Analysis 750

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

WebCode	Data Flag	Sample X53			Sample X54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
BYJARP		10.30	-0.32	-0.48	14.35	0.13	0.15	TO
C2MRYX		9.25	-1.37	-2.07	13.05	-1.17	-1.32	TO
C62FEE		10.10	-0.52	-0.78	13.35	-0.87	-0.98	TO
CEE9RA		10.55	-0.07	-0.10	13.85	-0.37	-0.41	KA
CKRSB3		9.99	-0.63	-0.96	13.16	-1.06	-1.19	GO
CQX9HH		10.45	-0.17	-0.25	15.30	1.08	1.23	TO
E2XVHN		11.10	0.48	0.73	15.15	0.93	1.06	TO
EHGC4N	X	9.45	-1.17	-1.76	16.30	2.08	2.36	DY
EPH635		10.40	-0.22	-0.33	14.05	-0.17	-0.19	TO
ERTUX3		10.85	0.23	0.35	14.40	0.18	0.21	KA
EWHT9P		11.65	1.03	1.56	15.75	1.53	1.74	DY
F6VRIC	*	12.13	1.51	2.28	16.39	2.17	2.46	TO
FHR9PD		11.45	0.83	1.26	14.55	0.33	0.38	TO
FUHUXP		10.15	-0.47	-0.71	12.85	-1.37	-1.55	TO
FW94UB		11.05	0.43	0.65	14.15	-0.07	-0.07	KA
G8CFH5		9.90	-0.72	-1.08	12.95	-1.27	-1.43	KA
GC1MKC	*	12.22	1.60	2.41	16.41	2.19	2.48	TO
GMCZFW		11.35	0.73	1.11	13.70	-0.52	-0.58	TO
GVJSFQ		9.70	-0.92	-1.39	13.40	-0.82	-0.92	KA
HSHKSC		10.90	0.28	0.43	14.85	0.63	0.72	HA
J6SS7F		10.70	0.08	0.12	13.90	-0.32	-0.36	TO
JKUF2V	*	11.09	0.47	0.71	12.87	-1.35	-1.52	TO
JRBEBV		10.68	0.06	0.09	14.81	0.59	0.67	TO
JZNMW5		10.30	-0.32	-0.48	13.20	-1.02	-1.15	TM
K3T9RN		10.35	-0.27	-0.40	14.95	0.73	0.83	GO
KQDU99	*	12.24	1.62	2.44	16.43	2.21	2.50	TO
KU562K		11.35	0.73	1.11	15.41	1.19	1.35	TO
L3DJH9		11.27	0.65	0.98	15.43	1.22	1.38	KA
L4BTQX	X	1.10	-9.52	-14.38	1.40	-12.82	-14.50	TO
LLMSAT		11.91	1.29	1.95	15.84	1.62	1.83	TO
LTZXWY		10.44	-0.18	-0.28	14.00	-0.22	-0.25	DY
M7UXQL		10.61	-0.01	-0.01	13.81	-0.40	-0.45	KA

Plastics Interlaboratory Testing Program
Analysis 750

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

WebCode	Data Flag	Sample X53			Sample X54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
MPGZ2G		10.99	0.38	0.57	15.14	0.92	1.04	DY
MT5GLE		10.96	0.34	0.52	14.07	-0.14	-0.16	TO
N593AY		10.27	-0.35	-0.53	14.75	0.53	0.60	XA
NFCBYA		9.90	-0.72	-1.08	13.05	-1.17	-1.32	WZ
NQ4RY1		11.40	0.78	1.18	14.40	0.18	0.21	TY
P1TZX1	X	0.93	-9.69	-14.64	1.31	-12.91	-14.60	KA
P8ZX8X		10.95	0.33	0.50	15.10	0.88	1.00	TO
P92R2P		10.18	-0.44	-0.66	13.23	-0.98	-1.11	CE
Q1HUMG		10.64	0.02	0.03	14.28	0.06	0.07	KA
Q6Y2NM	*	11.55	0.93	1.41	13.55	-0.67	-0.75	TO
QC8SA8	X	11.35	0.73	1.11	12.80	-1.42	-1.60	TO
QT9752		11.80	1.18	1.79	14.75	0.53	0.60	GO
R71H34	X	0.60	-10.02	-15.13	0.70	-13.52	-15.29	TO
RC1L9J	X	4.40	-6.22	-9.39	6.25	-7.97	-9.01	KA
RDKNRY		11.25	0.63	0.95	15.38	1.16	1.32	TO
RK4GK4		10.30	-0.32	-0.48	12.40	-1.82	-2.05	TO
RKV4HU		10.49	-0.13	-0.19	14.13	-0.09	-0.10	WZ
SDB6TX		10.05	-0.57	-0.86	13.45	-0.77	-0.87	TO
T5C4RM		10.04	-0.58	-0.88	12.65	-1.57	-1.77	TA
TBTPSD		10.95	0.33	0.49	13.73	-0.49	-0.56	TO
TNE54Z	X	9.54	-1.08	-1.63	5.50	-8.72	-9.86	AT
TSF7F8		9.25	-1.37	-2.07	13.50	-0.72	-0.81	TO
TSMB2B		10.80	0.18	0.28	14.25	0.03	0.04	TO
TV7MAV		10.95	0.33	0.50	15.40	1.18	1.34	TO
TZB95C		10.10	-0.52	-0.78	14.80	0.58	0.66	TO
U6FQWR		10.60	-0.02	-0.03	15.15	0.93	1.06	TO
UX7H9J		11.30	0.68	1.03	14.72	0.51	0.57	TO
V25VQM		10.76	0.14	0.21	13.57	-0.65	-0.73	TO
V2SAAH		10.80	0.18	0.28	14.85	0.63	0.72	HA
VAF2MP	*	11.75	1.13	1.70	13.65	-0.57	-0.65	TO
VJCC6R		10.31	-0.31	-0.46	13.08	-1.14	-1.29	KA

Plastics Interlaboratory Testing Program
Analysis 750

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

WebCode	Data Flag	Sample X53			Sample X54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
VKBG1S	X	8.85	-1.77	-2.67	6.15	-8.07	-9.12	XX
VSGL6D		10.01	-0.61	-0.92	13.07	-1.15	-1.30	KA
VW4MV5		10.30	-0.32	-0.48	14.50	0.28	0.32	TO
W473LJ		10.81	0.19	0.28	13.92	-0.30	-0.33	DY
W54H92		10.40	-0.22	-0.33	13.90	-0.32	-0.36	TO
WFGT8S		10.45	-0.17	-0.25	14.55	0.33	0.38	XX
X8Q2PB		10.55	-0.07	-0.10	14.30	0.08	0.10	TO
X9948D	*	9.90	-0.72	-1.08	15.20	0.98	1.11	AT
XF8UEW		10.46	-0.16	-0.24	13.77	-0.45	-0.50	DA
XQF1EB		10.10	-0.52	-0.78	13.85	-0.37	-0.41	TO
XWK9SD		10.75	0.13	0.20	14.60	0.38	0.43	DY
Y7FBEZ		10.60	-0.02	-0.03	14.25	0.03	0.04	TO
Y9QK2L		10.65	0.03	0.05	13.48	-0.74	-0.83	WZ
YAGWBR		9.85	-0.77	-1.16	13.80	-0.42	-0.47	TO
YF2Y8V		10.50	-0.12	-0.18	14.40	0.18	0.21	XX
YJSZRR		11.50	0.88	1.33	14.35	0.13	0.15	TO
YNYCSP		9.65	-0.97	-1.46	14.15	-0.07	-0.07	CE
YPAK6X		9.70	-0.92	-1.39	13.17	-1.05	-1.19	KA
YYWBLF		9.75	-0.87	-1.31	13.80	-0.42	-0.47	TO
Z4RUQ6		10.86	0.24	0.37	14.40	0.18	0.21	CE
ZFXTEE		9.92	-0.70	-1.06	14.83	0.61	0.69	TO
ZHPXZY		9.80	-0.82	-1.24	14.55	0.33	0.38	TO
ZV4Q77		10.95	0.33	0.50	14.15	-0.07	-0.07	TO
ZWW5DP		11.06	0.44	0.66	15.31	1.09	1.23	TO
ZYG1SG		11.26	0.64	0.96	14.65	0.43	0.49	DY

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

Summary Statistics

Grand Means

10.618 grams/10 mins

14.216 grams/10 mins

Std Dev Btwn Labs

0.662 grams/10 mins

0.884 grams/10 mins

Statistics based on 112 of 120 reporting participants

Sample X53: PP & Sample X54: PP

Comments on assigned Data Flags for Test #750

EHGC4N (X) - Inconsistent in testing between samples.

L4BTQX (X) - Extreme data. Data appear to be off by a factor of 10.

P1TZX1 (X) - Extreme data. Data appear to be off by a factor of 10.

QC8SA8 (X) - Inconsistent in testing between samples.

R71H34 (X) - Extreme data.

RC1L9J (X) - Data for both samples are low.

TNE54Z (X) - Inconsistent in testing between samples, data for Sample X54 are low.

VKBG1S (X) - Inconsistent in testing between samples, data for Sample X54 are low.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(DA) - Davenport

(DY) - Dynisco

(GO) - Gottfert

(HA) - Haake

(KA) - Kayeness

(QT) - Qualitest

(TA) - Takara

(TM) - TMI

(TO) - Tinius Olsen

(TY) - Toyoseiki Seisakusho

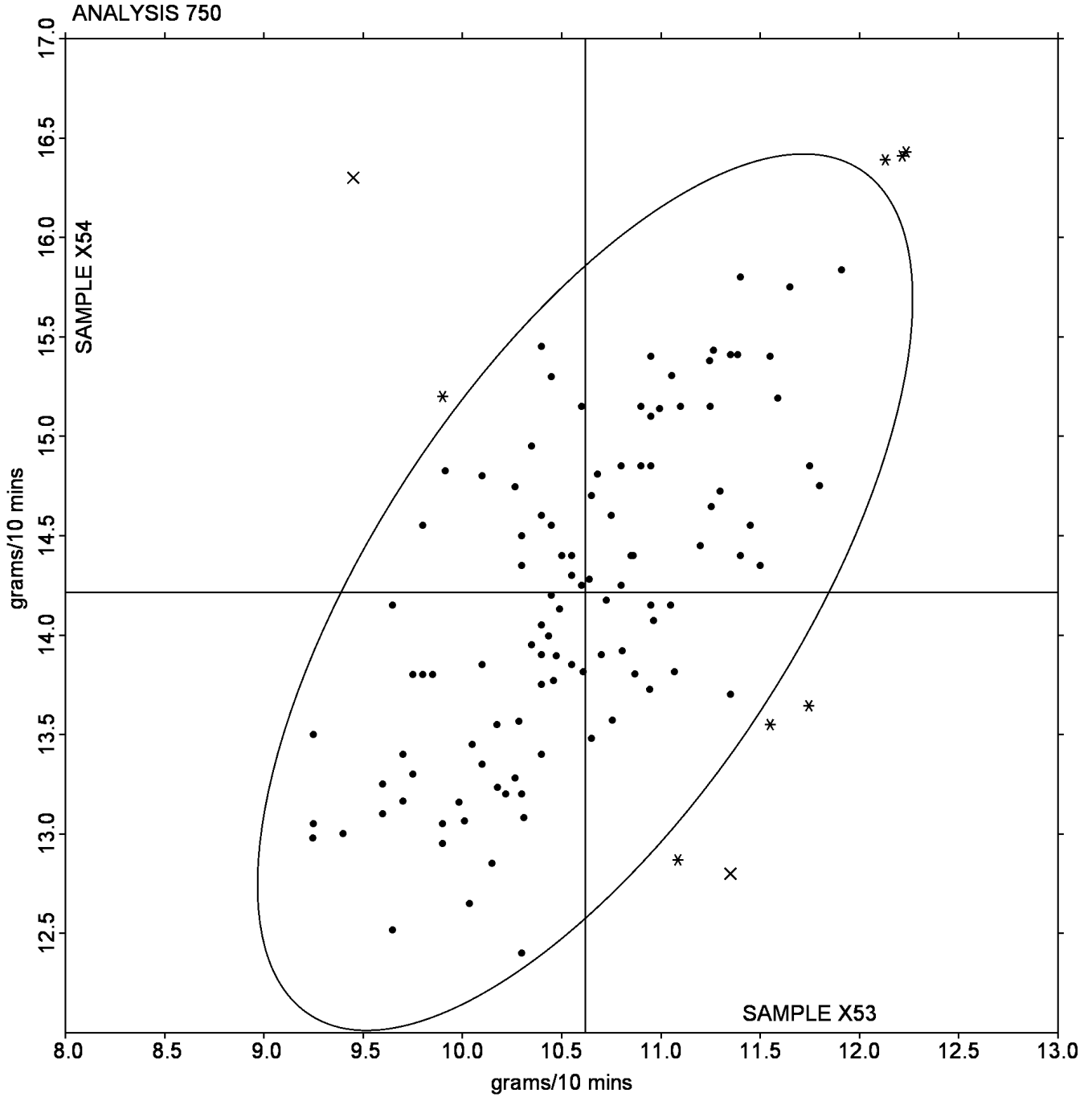
(WZ) - Zwick

(XA) - Special In-House Instrument

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample X53: 10.618 grams/10 mins Grand Mean Sample X54: 14.216 grams/10 mins



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

Analysis 718

Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T53			Sample T54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1HU9YG		1.18633	0.00183	0.69	1.13267	0.00107	0.44	XX
1KDUEX		1.18550	0.00100	0.37	1.13257	0.00097	0.40	XX
1UBYZJ		1.18627	0.00177	0.66	1.13383	0.00224	0.93	XX
2839PX		1.18403	-0.00047	-0.17	1.13010	-0.00150	-0.62	XX
28D4XH		1.18393	-0.00057	-0.21	1.13083	-0.00076	-0.32	XX
28JFYL		1.18403	-0.00047	-0.17	1.13380	0.00220	0.91	XX
2Q43MH		1.18167	-0.00283	-1.06	1.12767	-0.00393	-1.63	XX
35A3SJ		1.18720	0.00270	1.01	1.13427	0.00267	1.11	XX
3E4RRF		1.18650	0.00200	0.75	1.13310	0.00150	0.62	XX
3K13TC		1.18167	-0.00283	-1.06	1.12933	-0.00226	-0.94	XX
3XWXXL		1.18293	-0.00157	-0.59	1.13047	-0.00113	-0.47	XX
4GPL17		1.18123	-0.00327	-1.22	1.12720	-0.00440	-1.82	XX
4MHMZZ		1.18133	-0.00317	-1.18	1.12967	-0.00193	-0.80	XX
5FGKWD	*	1.17947	-0.00503	-1.88	1.12543	-0.00616	-2.55	XX
5XSPRQ		1.18667	0.00217	0.81	1.13327	0.00167	0.69	XX
62GELZ		1.18763	0.00313	1.17	1.13477	0.00317	1.31	XX
686Y2M		1.18667	0.00217	0.81	1.13383	0.00224	0.93	XX
6BNP2L		1.18100	-0.00350	-1.31	1.13033	-0.00126	-0.52	XX
6YPMZ5		1.18743	0.00293	1.10	1.13353	0.00194	0.80	XX
712BTU		1.18567	0.00117	0.44	1.13303	0.00144	0.60	XX
769Y3P		1.18260	-0.00190	-0.71	1.13067	-0.00093	-0.38	XX
88PA6D		1.18637	0.00187	0.70	1.13507	0.00347	1.44	XX
8DJLJ4		1.18607	0.00157	0.59	1.13273	0.00114	0.47	XX
8EWFJ		1.18443	-0.00007	-0.02	1.13040	-0.00120	-0.50	XX
8GCFPD	X	1.19310	0.00860	3.22	1.12943	-0.00216	-0.90	XX
8TC63C	X	1.18643	0.00193	0.72	1.12807	-0.00353	-1.46	XX
97YGAN		1.18300	-0.00150	-0.56	1.13090	-0.00070	-0.29	XX
A4N4K7		1.18270	-0.00180	-0.67	1.12883	-0.00276	-1.14	XX
AE9Z56		1.18630	0.00180	0.67	1.13310	0.00150	0.62	XX
AG2JYX		1.18030	-0.00420	-1.57	1.12897	-0.00263	-1.09	XX
AUNWA7		1.18643	0.00193	0.72	1.13220	0.00060	0.25	XX
AYPLAT		1.18260	-0.00190	-0.71	1.13183	0.00024	0.10	XX

Analysis 718

Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T53			Sample T54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
B1EB5Y		1.18467	0.00017	0.06	1.13267	0.00107	0.44	XX
B51XAT	*	1.17847	-0.00603	-2.26	1.12550	-0.00610	-2.53	XX
B546WZ		1.18540	0.00090	0.34	1.13210	0.00050	0.21	XX
BHJ4V2		1.18480	0.00030	0.11	1.13170	0.00010	0.04	XX
BV84Z9		1.18627	0.00177	0.66	1.13310	0.00150	0.62	XX
BW8ZRS		1.18660	0.00210	0.79	1.13343	0.00184	0.76	XX
BXR8A2		1.18197	-0.00253	-0.95	1.12747	-0.00413	-1.71	XX
CJHYVQ		1.18400	-0.00050	-0.19	1.13400	0.00240	1.00	XX
CUQZK3		1.18213	-0.00237	-0.88	1.12987	-0.00173	-0.72	XX
CVKLFE		1.18620	0.00170	0.64	1.13387	0.00227	0.94	XX
D761C8		1.18423	-0.00027	-0.10	1.13133	-0.00026	-0.11	XX
DBV4ZX		1.18500	0.00050	0.19	1.13200	0.00040	0.17	XX
DKRG31	X	1.18627	0.00177	0.66	1.12697	-0.00463	-1.92	XX
DWLBDF		1.18103	-0.00347	-1.30	1.12843	-0.00316	-1.31	XX
EW3FWD		1.18590	0.00140	0.52	1.13310	0.00150	0.62	XX
EYARTG		1.18636	0.00186	0.69	1.13470	0.00311	1.29	XX
FUR5AU		1.18300	-0.00150	-0.56	1.12953	-0.00206	-0.85	XX
G9PK5M		1.18307	-0.00143	-0.54	1.13063	-0.00096	-0.40	XX
G9ZNDD	X	1.18433	-0.00017	-0.06	1.18133	0.04974	20.61	XX
GRR53A		1.18060	-0.00390	-1.46	1.13030	-0.00130	-0.54	XX
H39EMT		1.18683	0.00233	0.87	1.13400	0.00240	1.00	XX
H8SHZH		1.18740	0.00290	1.08	1.13383	0.00224	0.93	XX
HHQ6SM		1.18740	0.00290	1.08	1.13423	0.00264	1.09	XX
JKRTKG		1.18510	0.00060	0.22	1.13160	0.00000	0.00	XX
JRYMWL		1.18347	-0.00103	-0.39	1.13133	-0.00026	-0.11	XX
JYMNRB		1.18353	-0.00097	-0.36	1.13167	0.00007	0.03	XX
K723EK		1.19033	0.00583	2.18	1.13633	0.00474	1.96	XX
K86J1B	*	1.18947	0.00497	1.86	1.13273	0.00114	0.47	XX
KBLFS1		1.18853	0.00403	1.51	1.13387	0.00227	0.94	XX
KF83SS	X	1.17650	-0.00800	-2.99	1.12723	-0.00436	-1.81	XX
KN7K9P		1.18067	-0.00383	-1.43	1.12837	-0.00323	-1.34	XX
KR4NLY		1.18540	0.00090	0.34	1.13307	0.00147	0.61	XX

Analysis 718

Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T53			Sample T54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
L7T82A		1.18040	-0.00410	-1.53	1.12680	-0.00480	-1.99	XX
LQQQW7		1.18563	0.00113	0.42	1.13213	0.00054	0.22	XX
LUC43V		1.17943	-0.00507	-1.89	1.12627	-0.00533	-2.21	XX
MLP9AH		1.18567	0.00117	0.44	1.13310	0.00150	0.62	XX
NNS1MA		1.18633	0.00183	0.69	1.13333	0.00174	0.72	XX
P9GVUV		1.18673	0.00223	0.84	1.13333	0.00174	0.72	XX
Q7E4M8		1.18580	0.00130	0.49	1.13207	0.00047	0.20	XX
QBL1T2		1.18297	-0.00153	-0.57	1.12970	-0.00190	-0.79	XX
R6J31G		1.18843	0.00393	1.47	1.13257	0.00097	0.40	XX
RAYH2U	X	1.18037	-0.00413	-1.55	1.13487	0.00327	1.36	XX
RFSWT3	X	1.18650	0.00200	0.75	1.18617	0.05457	22.61	XX
S8BGXC		1.18567	0.00117	0.44	1.13227	0.00067	0.28	XX
SAAJ29	X	1.04500	-0.13950	-52.16	1.04700	-0.08460	-35.05	XX
T4VDKF	*	1.17737	-0.00713	-2.67	1.12520	-0.00640	-2.65	XX
T7XEMY		1.18600	0.00150	0.56	1.13283	0.00124	0.51	XX
T8Z46N		1.18577	0.00127	0.47	1.13090	-0.00070	-0.29	XX
TJKB1W		1.18173	-0.00277	-1.03	1.12817	-0.00343	-1.42	XX
TQH1N2	X	1.12980	-0.05470	-20.45	1.18660	0.05500	22.79	XX
TYZEWS		1.18633	0.00183	0.69	1.13293	0.00134	0.55	XX
UD3FQR		1.18690	0.00240	0.90	1.13200	0.00040	0.17	XX
UN64DC	*	1.18340	-0.00110	-0.41	1.13370	0.00210	0.87	XX
V5XSP6		1.18697	0.00247	0.92	1.13417	0.00257	1.07	XX
VKS2QR		1.18413	-0.00037	-0.14	1.12917	-0.00243	-1.01	XX
VLFN09		1.18667	0.00217	0.81	1.13430	0.00271	1.12	XX
VNUG1F		1.18577	0.00127	0.47	1.13213	0.00054	0.22	XX
VW5WT9		1.18957	0.00507	1.89	1.13423	0.00264	1.09	XX
WAP835		1.18350	-0.00100	-0.37	1.13283	0.00124	0.51	XX
WBZ4K3		1.18203	-0.00247	-0.92	1.13007	-0.00153	-0.63	XX
WQWXT4		1.17967	-0.00483	-1.81	1.12767	-0.00393	-1.63	XX
WTZ55P		1.18633	0.00183	0.69	1.13113	-0.00046	-0.19	XX
X841TF		1.18620	0.00170	0.64	1.13347	0.00187	0.78	XX

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

WebCode	Data Flag	Sample T53			Sample T54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XN5YCK		1.18367	-0.00083	-0.31	1.13167	0.00007	0.03	XX
ZGGY6W		1.18000	-0.00450	-1.68	1.13000	-0.00160	-0.66	XX
ZNX3TK		1.18613	0.00163	0.61	1.13407	0.00247	1.02	XX
ZPWVV4		1.18717	0.00267	1.00	1.13350	0.00190	0.79	XX
ZTTE18		1.18047	-0.00403	-1.51	1.12857	-0.00303	-1.26	XX
ZW9TG2		1.18533	0.00083	0.31	1.13333	0.00174	0.72	XX

Summary Statistics

Grand Means

1.184500 sp gr 23/23 C

1.131595 sp gr 23/23 C

Std Dev Btwn Labs

0.002674 sp gr 23/23 C

0.002413 sp gr 23/23 C

Statistics based on 92 of 101 reporting participants

Sample T53: ABS/PC & Sample T54: ABS/PC

Comments on assigned Data Flags for Test #718

8GCFPD (X) - Inconsistent in testing between samples, data for Sample T53 are high.

8TC63C (X) - Inconsistent in testing between samples.

DKRG31 (X) - Inconsistent in testing between samples.

G9ZNDD (X) - Inconsistent in testing between samples, data for Sample T54 are high.

KF83SS (X) - Inconsistent in testing between samples, data for Sample T53 are low.

RAYH2U (X) - Inconsistent in testing between samples.

RFSWT3 (X) - Inconsistent in testing between samples, data for Sample T54 are high.

SAAJ29 (X) - Data for both samples are low.

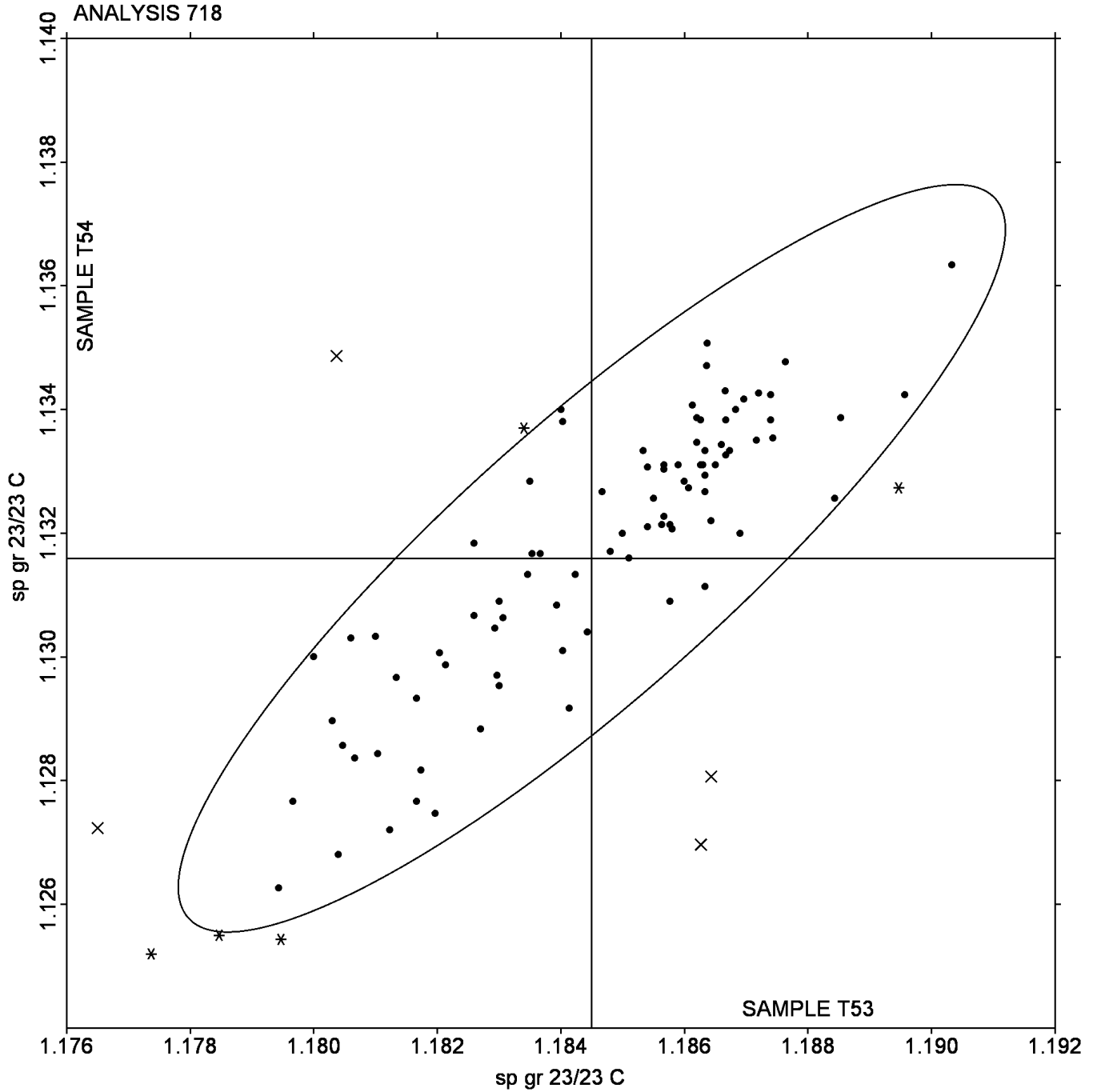
TQH1N2 (X) - Inconsistent in testing between samples. Data appear to be transposed between samples.

Instrument Code List as Reported by the Labs

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

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

Grand Mean Sample T53: 1.1845 sp gr 23/23 C Grand Mean Sample T54: 1.1316 sp gr 23/23 C



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

Plastics Interlaboratory Testing Program
Analysis 757

Ash Content in Thermoplastics - Percent

WebCode	Data Flag	Sample L53			Sample L54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1832PQ		31.370	-0.009	-0.05	39.700	-0.130	-0.85	XX
1APASC		31.260	-0.119	-0.62	39.820	-0.010	-0.07	XX
1X93ED		31.735	0.356	1.83	39.650	-0.180	-1.18	XX
2B3CH5		31.330	-0.049	-0.25	39.475	-0.355	-2.32	XX
2DH4XL		31.200	-0.179	-0.92	40.000	0.170	1.11	XX
32DZ35		31.305	-0.074	-0.38	39.820	-0.010	-0.07	XX
335MAF		31.300	-0.079	-0.41	39.715	-0.115	-0.75	XX
44GC1H		31.620	0.241	1.24	39.825	-0.005	-0.03	XX
4HR7T6		31.555	0.176	0.91	39.825	-0.005	-0.03	XX
4RQJFP		31.470	0.091	0.47	39.780	-0.050	-0.33	XX
594DSV	*	30.970	-0.409	-2.11	39.485	-0.345	-2.26	XX
5H4S5U		31.430	0.051	0.26	39.870	0.040	0.26	XX
5QMX21		31.175	-0.204	-1.05	40.150	0.320	2.09	XX
5VZ95F		31.575	0.196	1.01	40.060	0.230	1.50	XX
66DFUP		31.810	0.431	2.22	39.725	-0.105	-0.69	XX
6A9711		31.400	0.021	0.11	40.050	0.220	1.44	XX
7U5KEY		31.370	-0.009	-0.05	39.895	0.065	0.42	XX
7WMV32		31.435	0.056	0.29	39.775	-0.055	-0.36	XX
8C7JHK	*	31.075	-0.304	-1.57	39.400	-0.430	-2.82	XX
BDPRB4	X	32.200	0.821	4.23	39.800	-0.030	-0.20	XX
BNUANC		31.500	0.121	0.62	39.835	0.005	0.03	XX
C8AEN2		31.250	-0.129	-0.67	39.700	-0.130	-0.85	XX
CE3H5Y		31.367	-0.012	-0.06	40.027	0.196	1.29	XX
CSR71A		31.375	-0.004	-0.02	39.680	-0.150	-0.98	XX
DA7NSA		31.430	0.051	0.26	39.905	0.075	0.49	XX
DMLK8Z		31.385	0.006	0.03	39.765	-0.065	-0.43	XX
F718S5		31.005	-0.375	-1.93	39.719	-0.112	-0.73	XX
FBVQWP		31.410	0.031	0.16	39.895	0.065	0.42	XX
FTG3MA		31.435	0.056	0.29	39.880	0.050	0.33	XX
G58KY2		31.365	-0.014	-0.07	39.815	-0.015	-0.10	XX
GKH2EV		31.590	0.211	1.09	39.900	0.070	0.46	XX
HYD6DZ		31.485	0.106	0.54	39.755	-0.075	-0.49	XX

Plastics Interlaboratory Testing Program
Analysis 757

Ash Content in Thermoplastics - Percent

WebCode	Data Flag	Sample L53			Sample L54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
J2K911		31.010	-0.369	-1.90	39.735	-0.095	-0.62	XX
J4XT7H		31.345	-0.034	-0.18	39.785	-0.045	-0.30	XX
KCDZ9L	*	31.860	0.481	2.48	39.665	-0.165	-1.08	XX
LAZ4SM		31.571	0.192	0.99	39.883	0.053	0.35	XX
M27W2U		31.300	-0.079	-0.41	40.100	0.270	1.77	XX
MCJSUT		31.160	-0.219	-1.13	39.825	-0.005	-0.03	XX
MNJ1CG		31.220	-0.159	-0.82	39.690	-0.140	-0.92	XX
PJ66Z4		31.520	0.141	0.73	39.845	0.015	0.10	XX
Q58UPK		31.600	0.221	1.14	39.910	0.080	0.52	XX
Q6XD1G		31.070	-0.309	-1.60	39.765	-0.065	-0.43	XX
QUKN5F		31.595	0.216	1.11	39.925	0.095	0.62	XX
R3FRDU		31.460	0.081	0.42	40.045	0.215	1.41	XX
RQHLLKQ		31.335	-0.044	-0.23	39.880	0.050	0.33	XX
RW4XXD		31.615	0.236	1.22	39.790	-0.040	-0.26	XX
T8TH6F		31.225	-0.154	-0.80	39.800	-0.030	-0.20	XX
TYV3VP		31.525	0.146	0.75	39.850	0.020	0.13	XX
V5F5LW		31.265	-0.114	-0.59	39.890	0.060	0.39	XX
VCH9F2		31.400	0.021	0.11	39.915	0.085	0.56	XX
VENPIL		31.580	0.201	1.03	40.150	0.320	2.09	XX
WKKMNA		31.365	-0.014	-0.07	39.605	-0.225	-1.47	XX
Z48JX6		31.320	-0.059	-0.31	39.820	-0.010	-0.07	XX
Z7RZEK		31.050	-0.329	-1.70	39.865	0.035	0.23	XX
ZCRP95		31.255	-0.124	-0.64	39.980	0.150	0.98	XX
ZCZXP5		31.410	0.031	0.16	39.905	0.075	0.49	XX
ZTV1XP		31.205	-0.174	-0.90	39.970	0.140	0.92	XX

Ash Content in Thermoplastics - Percent

Summary Statistics**Grand Means**

31.3793 Percent

39.8301 Percent

Std Dev Btwn Labs

0.1939 Percent

0.1528 Percent

Statistics based on 56 of 57 reporting participants

Sample L53: PP & Sample L54: PP

Comments on assigned Data Flags for Test #757

BDPRB4 (X) - Inconsistent in testing between samples.

Instrument Code List as Reported by the Labs

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

Plastics Interlaboratory Testing Program
Analysis 770

Tensile Stress at Yield, Film Samples - psi

WebCode	Data Flag	Sample B53			Sample B54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
11H29Z		2,054	200	0.80	2,626	654	1.41	TH
21XSTG		1,610	-244	-0.97	1,882	-91	-0.19	IR
27MMWM		2,031	177	0.71	1,908	-64	-0.14	IN
28R13M	M	No data reported for this sample			2,514	541	1.16	SH
2XQHJ7	X	4,021	2,167	8.65	2,891	919	1.98	IN
45NRDQ		2,368	514	2.05	2,117	145	0.31	XX
4A5ZWP	M	No data reported for this sample			2,544	572	1.23	IN
75HBUE		1,751	-103	-0.41	1,829	-143	-0.31	IM
96N3V7		1,935	81	0.32	1,790	-183	-0.39	IN
9J91JH		1,854	0	0.00	1,662	-310	-0.67	TH
BQZAKY		2,154	300	1.20	1,927	-45	-0.10	IR
EQQLYP		1,766	-88	-0.35	1,545	-428	-0.92	IN
EWBX9Q	M	No data reported for this sample			2,569	596	1.28	IN
F5EE53		1,991	137	0.55	2,641	669	1.44	XX
FDQA3M		1,826	-28	-0.11	1,691	-282	-0.61	IN
G22C84		1,339	-515	-2.06	1,122	-850	-1.83	IN
JHPHJV		1,485	-369	-1.47	1,310	-663	-1.43	XX
K2EPXC	X	4,316	2,462	9.83	2,576	603	1.30	TH
KDQCUG		1,917	63	0.25	1,600	-373	-0.80	IN
KUCTL6		2,036	182	0.73	2,602	630	1.35	TH
LRC7VU		1,922	68	0.27	2,554	581	1.25	IN
MGSE59		1,414	-440	-1.76	2,258	286	0.61	IN
NBC2N8		1,981	127	0.51	2,522	549	1.18	TY
QX2F7N		1,677	-177	-0.71	1,624	-348	-0.75	IN
SSNYTX	M	No data reported for this sample			2,557	584	1.26	IM
T3RPTJ	X	4,665	2,811	11.22	2,732	759	1.63	MT
WDCHJY		1,780	-74	-0.30	1,644	-328	-0.71	UC
YDSF66		2,044	190	0.76	2,567	594	1.28	IN

Tensile Stress at Yield, Film Samples - psi

Summary Statistics

Grand Means

1,854.1 psi

1,972.4 psi

Std Dev Btwn Labs

250.6 psi

464.9 psi

Statistics based on 21 of 28 reporting participants

Sample B53: LDPE & Sample B54: LDPE

Comments on assigned Data Flags for Test #770

28R13M (M) - Laboratory did not submit data for Sample B53.

2XQHJ7 (X) - Data for Sample B53 are high.

4A5ZWP (M) - Laboratory did not submit data for Sample B53.

EWBX9Q (M) - Laboratory did not submit data for Sample B53.

K2EPXC (X) - Data for Sample B53 are high.

SSNYTX (M) - Laboratory did not submit data for Sample B53.

T3RPTJ (X) - Data for Sample B53 are high.

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

(IR) - Instron with retrofit

(MT) - MTS/Sintech

(SH) - Shimadzu

(TH) - Thwing Albert

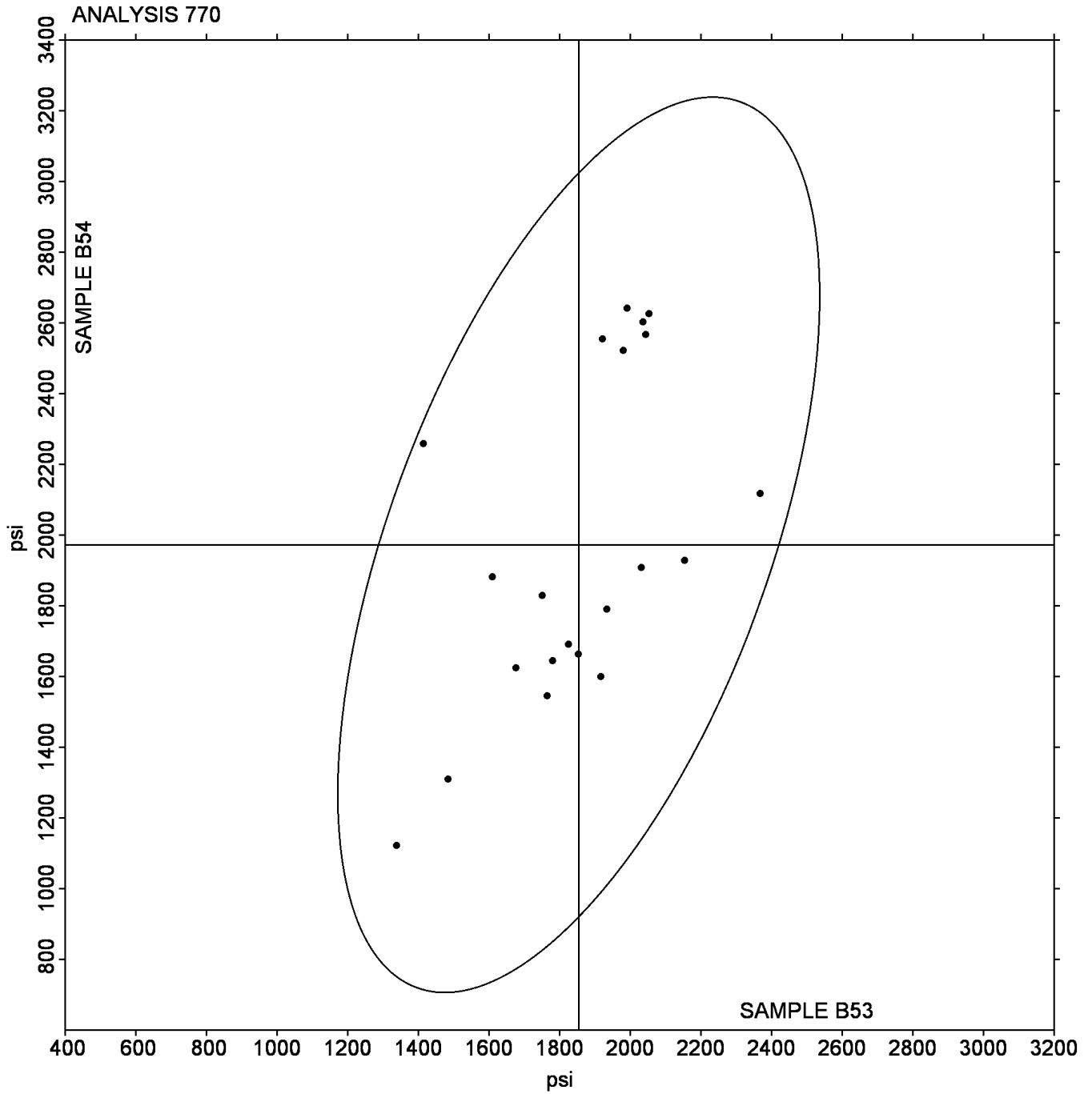
(TY) - Toyoseiki

(UC) - United

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B53: 1,854.05 psi Grand Mean Sample B54: 1,972.43 psi



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

Plastics Interlaboratory Testing Program
Analysis 771

Tensile Stress at Break, Film Samples - psi

WebCode	Data Flag	Sample B53			Sample B54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2DVEBZ		4,407	245	0.64	4,357	242	0.46	IN
2LXLAY		4,427	265	0.70	3,988	-126	-0.24	IN
3QY9ZU		4,425	263	0.69	4,807	693	1.32	TH
4ARXD1		3,941	-221	-0.58	4,587	472	0.90	IN
5AJ45R		4,286	123	0.33	4,705	591	1.13	TY
6A98XK		4,349	187	0.49	4,527	413	0.79	IM
8X9UGY		4,131	-31	-0.08	3,877	-238	-0.45	IN
9MPHSM		3,844	-318	-0.84	3,472	-642	-1.23	IN
AJWJJB		4,120	-42	-0.11	3,847	-267	-0.51	IM
AYJZBL		4,974	812	2.14	4,518	404	0.77	XX
BPYSNH		3,779	-383	-1.01	3,323	-791	-1.51	UC
D45TAJ		4,581	419	1.10	3,845	-269	-0.51	HO
DA5T84		4,283	121	0.32	3,759	-356	-0.68	IN
EHE33L		4,546	384	1.01	4,835	721	1.37	TH
EX2RKU		4,646	484	1.27	4,830	715	1.36	IR
GUCE54		4,203	41	0.11	4,482	368	0.70	XX
GZPY7N		4,047	-115	-0.30	4,699	584	1.11	IN
H55UCW		4,428	266	0.70	4,627	513	0.98	IN
KV3KJB		4,456	294	0.77	4,405	291	0.55	IN
L1DFYS		3,880	-282	-0.74	3,434	-680	-1.30	XX
NVXL6Z	*	3,106	-1,056	-2.78	3,108	-1,007	-1.92	IN
RKNA7Z		4,396	234	0.62	4,147	32	0.06	TH
RLVMSG		4,252	90	0.24	4,651	536	1.02	IN
VJYCFW		3,948	-214	-0.56	4,376	262	0.50	IN
VS4GW1		3,945	-217	-0.57	3,375	-739	-1.41	MK
WUK4VD		3,986	-176	-0.46	3,970	-145	-0.28	IN
XY56ZR		4,455	293	0.77	3,954	-160	-0.31	SH
Y6E5ST		3,854	-308	-0.81	3,586	-528	-1.01	TH
YHDPKL		3,568	-594	-1.56	3,979	-135	-0.26	IR
ZPXK7N		3,597	-565	-1.49	3,361	-754	-1.44	IN
ZWMYRE	X	3,198	-964	-2.54	4,651	536	1.02	MT

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

Summary Statistics	
Grand Means	
4,162.0 psi	4,114.3 psi
Std Dev Btwn Labs	
380.0 psi	524.3 psi
Statistics based on 30 of 31 reporting participants	

Sample B53: LDPE & Sample B54: LDPE

Comments on assigned Data Flags for Test #771

ZWMYRE (X) - Inconsistent in testing between samples and inconsistent in testing within Sample B53.

Instrument Code List as Reported by the Labs

(HO) - Hounsfield Instruments

(IM) - Instru-Met Instruments

(IN) - Instron

(IR) - Instron with retrofit

(MK) - Mark 10

(MT) - MTS/Sintech

(SH) - Shimadzu

(TH) - Thwing Albert

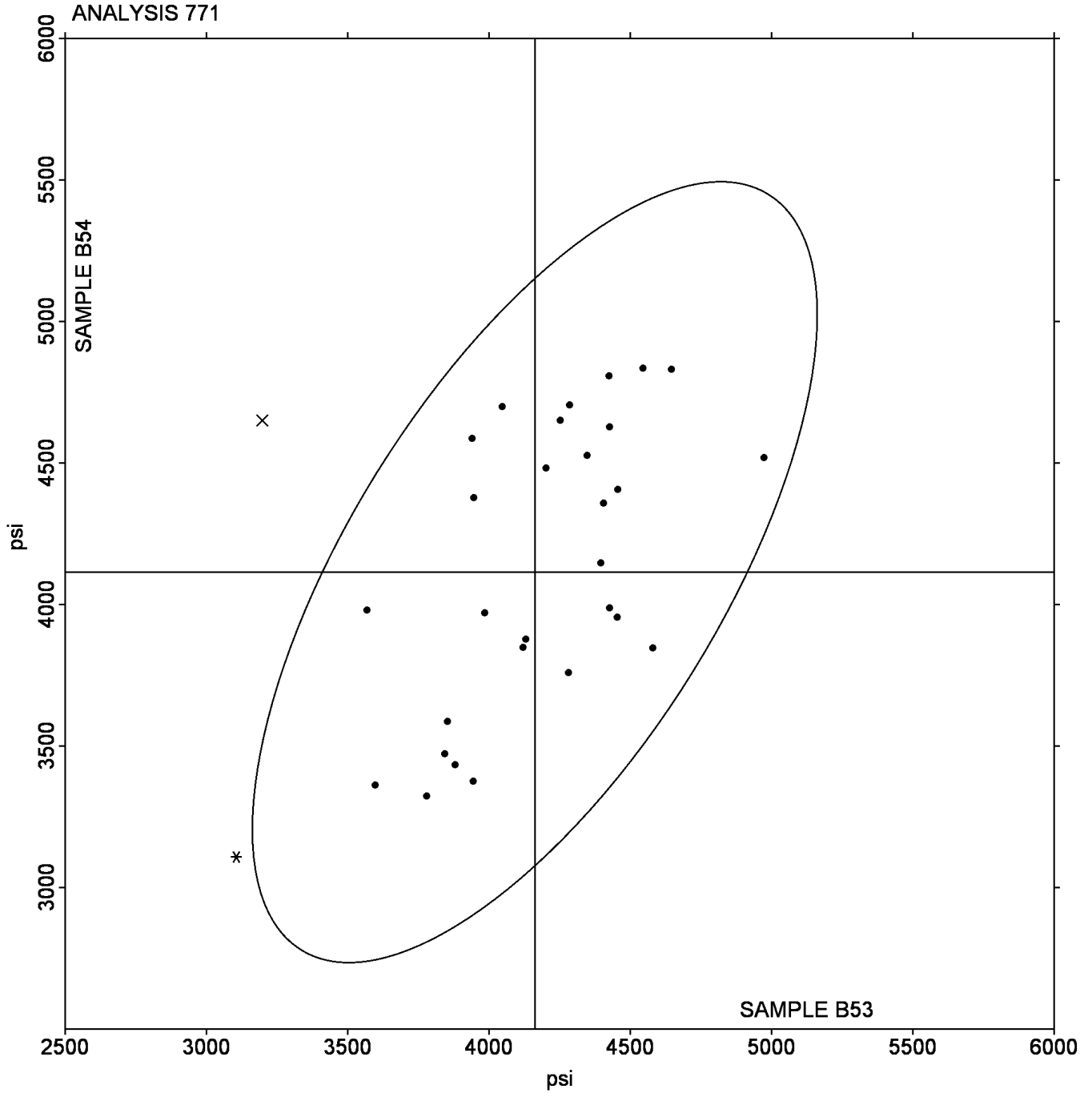
(TY) - Toyoseiki

(UC) - United

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B53: 4,162.05 psi Grand Mean Sample B54: 4,114.30 psi



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

Plastics Interlaboratory Testing Program
Analysis 772

Percent Elongation at Yield, Films

WebCode	Data Flag	Sample B53			Sample B54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2F8J93		9.00	-1.67	-0.50	9.65	-27.53	-0.81	IN
66RS91	M	No data reported for this sample			114.15	76.97	2.25	IN
6TZ29U		13.14	2.47	0.75	66.95	29.77	0.87	IN
8BG68E		8.10	-2.57	-0.78	8.90	-28.28	-0.83	IN
9HGZYD		10.59	-0.08	-0.02	22.46	-14.72	-0.43	IM
9JH5P1		6.70	-3.97	-1.20	10.00	-27.18	-0.80	IN
9NYN6A	M	No data reported for this sample			101.30	64.12	1.88	SH
AR4BJ5	X	1.47	-9.20	-2.78	1.75	-35.44	-1.04	XX
DACR6N		9.24	-1.43	-0.43	9.21	-27.97	-0.82	IN
JC2CK1		9.05	-1.63	-0.49	79.98	42.80	1.25	XX
KC6JTT	X	112.09	101.42	30.69	96.93	59.75	1.75	MT
MESHY8		13.43	2.76	0.83	20.40	-16.78	-0.49	IN
NM6K6U		17.12	6.45	1.95	17.33	-19.85	-0.58	IN
NZN99K	X	144.32	133.65	40.45	96.62	59.44	1.74	IN
QB2RM2	M	No data reported for this sample			90.94	53.76	1.57	IN
QXJTUU		14.98	4.31	1.30	21.30	-15.88	-0.46	IR
SB9PYW		11.27	0.60	0.18	92.16	54.98	1.61	TH
SLH39X	M	No data reported for this sample			113.73	76.55	2.24	IM
TJU4EZ		14.01	3.34	1.01	14.57	-22.61	-0.66	UC
VDUBJ8		10.02	-0.65	-0.20	9.98	-27.20	-0.80	IN
XLDG26		4.99	-5.68	-1.72	93.53	56.35	1.65	IN
YD6EVH		8.45	-2.22	-0.67	81.31	44.13	1.29	IN

Summary Statistics

Grand Means

10.673 Percent

37.182 Percent

Std Dev Btwn Labs

3.304 Percent

34.161 Percent

Statistics based on 15 of 22 reporting participants

Sample B53: LDPE & Sample B54: LDPE

Percent Elongation at Yield, Films

Comments on assigned Data Flags for Test #772

66RS91 (M) - Laboratory did not submit data for Sample B53.

9NYN6A (M) - Laboratory did not submit data for Sample B53.

AR4BJ5 (X) - Data for both samples are low.

KC6JTT (X) - Data for Sample B53 are high.

NZN99K (X) - Data for Sample B53 are high.

QB2RM2 (M) - Laboratory did not submit data for Sample B53.

SLH39X (M) - Laboratory did not submit data for Sample B53.

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

(IR) - Instron with retrofit

(MT) - MTS/Sintech

(SH) - Shimadzu

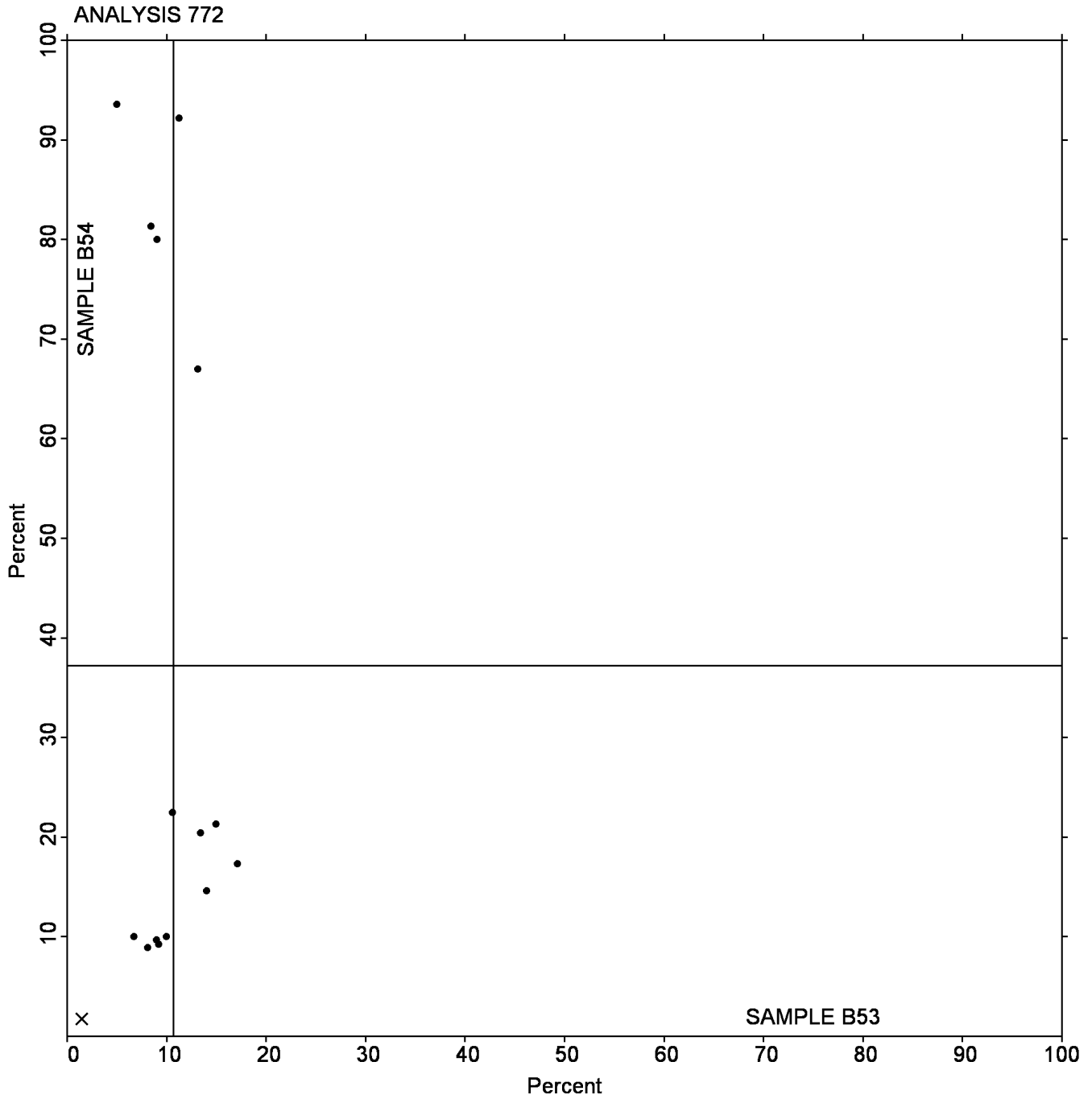
(TH) - Thwing Albert

(UC) - United

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B53: 10.673 Percent Grand Mean Sample B54: 37.182 Percent



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

Plastics Interlaboratory Testing Program
Analysis 773

Percent Elongation at Break, Film Samples

WebCode	Data Flag	Sample B53			Sample B54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
6N9SZW		109.5	-14.0	-0.69	458.2	-138.5	-1.17	IN
8264MD		113.2	-10.3	-0.50	524.3	-72.4	-0.61	IN
9EKPC7		87.0	-36.4	-1.79	543.2	-53.5	-0.45	IN
CABPE5		124.7	1.3	0.06	654.5	57.8	0.49	IN
CDHW7P		133.4	10.0	0.49	583.1	-13.5	-0.11	IN
CYW6U8		144.5	21.1	1.03	622.1	25.4	0.21	IR
DKKJJP		127.4	3.9	0.19	659.2	62.5	0.53	IN
EUTK29		123.0	-0.5	-0.02	601.2	4.5	0.04	IN
EZTZ25		117.5	-6.0	-0.29	519.8	-76.8	-0.65	XX
F3DQ8L		132.7	9.2	0.45	619.7	23.0	0.19	TH
H1K6EC		137.0	13.5	0.66	635.1	38.4	0.33	IN
J1YD31	*	118.3	-5.2	-0.25	807.6	210.9	1.78	SH
KDJ4L4	*	69.7	-53.8	-2.64	282.1	-314.6	-2.66	XX
MC68B9		110.5	-12.9	-0.63	445.0	-151.6	-1.28	HO
MEXQP9		129.0	5.5	0.27	598.4	1.7	0.01	IR
NDG9X8		112.2	-11.2	-0.55	466.8	-129.8	-1.10	UC
PQ1CFY		142.8	19.3	0.95	667.1	70.4	0.60	TH
TMA8B9		140.5	17.0	0.83	785.3	188.7	1.59	IN
TWL2S3	X	655.7	532.2	26.13	2,895.5	2,298.8	19.43	MK
U5JCXC		166.5	43.0	2.11	676.6	79.9	0.68	IN
UBXZA8		120.2	-3.3	-0.16	539.3	-57.4	-0.49	IN
UTHJ7F		147.8	24.4	1.20	665.7	69.0	0.58	IN
UZ2QRF		135.3	11.8	0.58	638.2	41.5	0.35	IN
V6SHSZ		91.6	-31.8	-1.56	441.5	-155.2	-1.31	XX
W5X1KX		142.4	18.9	0.93	589.9	-6.8	-0.06	IN
W8ARPD		115.9	-7.6	-0.37	622.9	26.2	0.22	XX
WQZTMV		150.2	26.7	1.31	882.6	285.9	2.42	IM
Y7YQW5		117.5	-6.0	-0.29	566.0	-30.7	-0.26	TH
YBYUXP		116.2	-7.3	-0.36	582.4	-14.3	-0.12	IM
YQWX8G		103.7	-19.7	-0.97	625.2	28.6	0.24	XX

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

Summary Statistics			
Grand Means	123.46	Percent	596.65
			Percent
Std Dev Btwn Labs	20.37	Percent	118.30
			Percent
Statistics based on 29 of 30 reporting participants			

Sample B53: LDPE & Sample B54: LDPE

Comments on assigned Data Flags for Test #773

TWL2S3 (X) - Extreme data.

Instrument Code List as Reported by the Labs

(HO) - Hounsfield Instruments

(IM) - Instru-Met Instruments

(IN) - Instron

(IR) - Instron with retrofit

(MK) - Mark 10

(SH) - Shimadzu

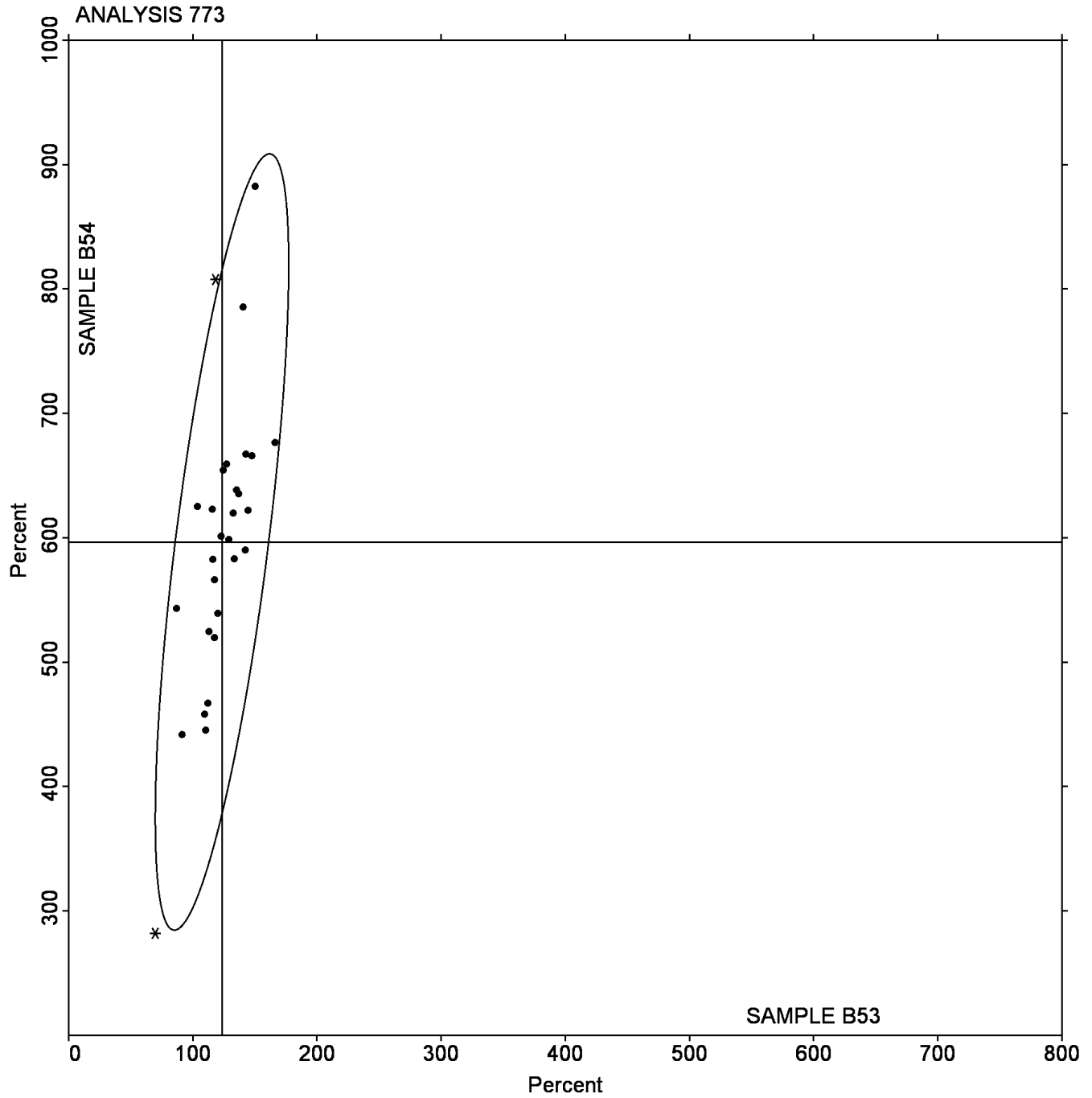
(TH) - Thwing Albert

(UC) - United

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B53: 123.46 Percent Grand Mean Sample B54: 596.65 Percent



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

Analysis 774

Thickness of Film Tensile Samples - mils

WebCode	Data Flag	Sample B53			Sample B54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
24XZ18		1.2000	-0.1283	-1.58	1.8800	-0.0761	-0.90	XX
37EECL		1.3130	-0.0153	-0.19	1.9410	-0.0151	-0.18	XX
3FBA8P		1.2960	-0.0323	-0.40	1.9400	-0.0161	-0.19	XX
3LNMEH		1.2890	-0.0393	-0.48	1.9190	-0.0371	-0.44	XX
76WJFW		1.3000	-0.0283	-0.35	2.0000	0.0439	0.52	XX
7P36DV	*	1.5197	0.1915	2.36	2.1772	0.2211	2.60	XX
8N4HBB		1.2323	-0.0960	-1.18	1.9173	-0.0388	-0.46	XX
94K88N		1.2756	-0.0527	-0.65	1.9685	0.0124	0.15	XX
9ZBWLN		1.3000	-0.0283	-0.35	1.9400	-0.0161	-0.19	XX
C6U1LE		1.1830	-0.1453	-1.79	1.7490	-0.2071	-2.44	XX
CMDUYX		1.4600	0.1317	1.62	2.0400	0.0839	0.99	XX
DCUNZN		1.3000	-0.0283	-0.35	1.9200	-0.0361	-0.43	XX
DZ8BV4		1.2992	-0.0290	-0.36	1.9724	0.0163	0.19	XX
EEYMT6		1.4450	0.1167	1.44	1.9150	-0.0411	-0.48	XX
ERU869		1.5000	0.1717	2.11	2.0800	0.1239	1.46	XX
EZ81MZ		1.2730	-0.0553	-0.68	1.9110	-0.0451	-0.53	XX
GLGLMB		1.4600	0.1317	1.62	1.9900	0.0339	0.40	XX
H3HN4F		1.2323	-0.0960	-1.18	1.8977	-0.0584	-0.69	XX
J41TRW		1.3810	0.0527	0.65	1.9320	-0.0241	-0.28	XX
JUQC6B		1.2300	-0.0983	-1.21	1.7850	-0.1711	-2.01	XX
JZ4RKV		1.3600	0.0317	0.39	1.9000	-0.0561	-0.66	XX
KGVXK2		1.3460	0.0177	0.22	2.0190	0.0629	0.74	XX
LAQTG2		1.2900	-0.0383	-0.47	1.9700	0.0139	0.16	XX
MGMFZ8		1.3189	-0.0094	-0.12	1.9764	0.0203	0.24	XX
N8B57E		1.3600	0.0317	0.39	1.9650	0.0089	0.10	XX
NUPW9N		1.3701	0.0418	0.52	2.0158	0.0597	0.70	XX
PU5U5E		1.2600	-0.0683	-0.84	1.9200	-0.0361	-0.43	XX
PXJ5QQ		1.3640	0.0357	0.44	1.9530	-0.0031	-0.04	XX
Q28MFT	*	1.3700	0.0417	0.51	2.1800	0.2239	2.64	XX
TB3VG9		1.3400	0.0117	0.14	1.9050	-0.0511	-0.60	XX
VBEW87		1.3630	0.0347	0.43	1.9540	-0.0021	-0.02	XX
VJWLCU		1.3114	-0.0168	-0.21	1.9583	0.0022	0.03	XX

**Plastics Interlaboratory Testing Program
Analysis 774**

Thickness of Film Tensile Samples - mils

WebCode	Data Flag	Sample B53			Sample B54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
Z4AZ8X		1.2900	-0.0383	-0.47	1.9600	0.0039	0.05	XX

Summary Statistics	
Grand Means	
1.32826 mils	1.95611 mils
Std Dev Btwn Labs	
0.08124 mils	0.08493 mils
Statistics based on 33 of 33 reporting participants	

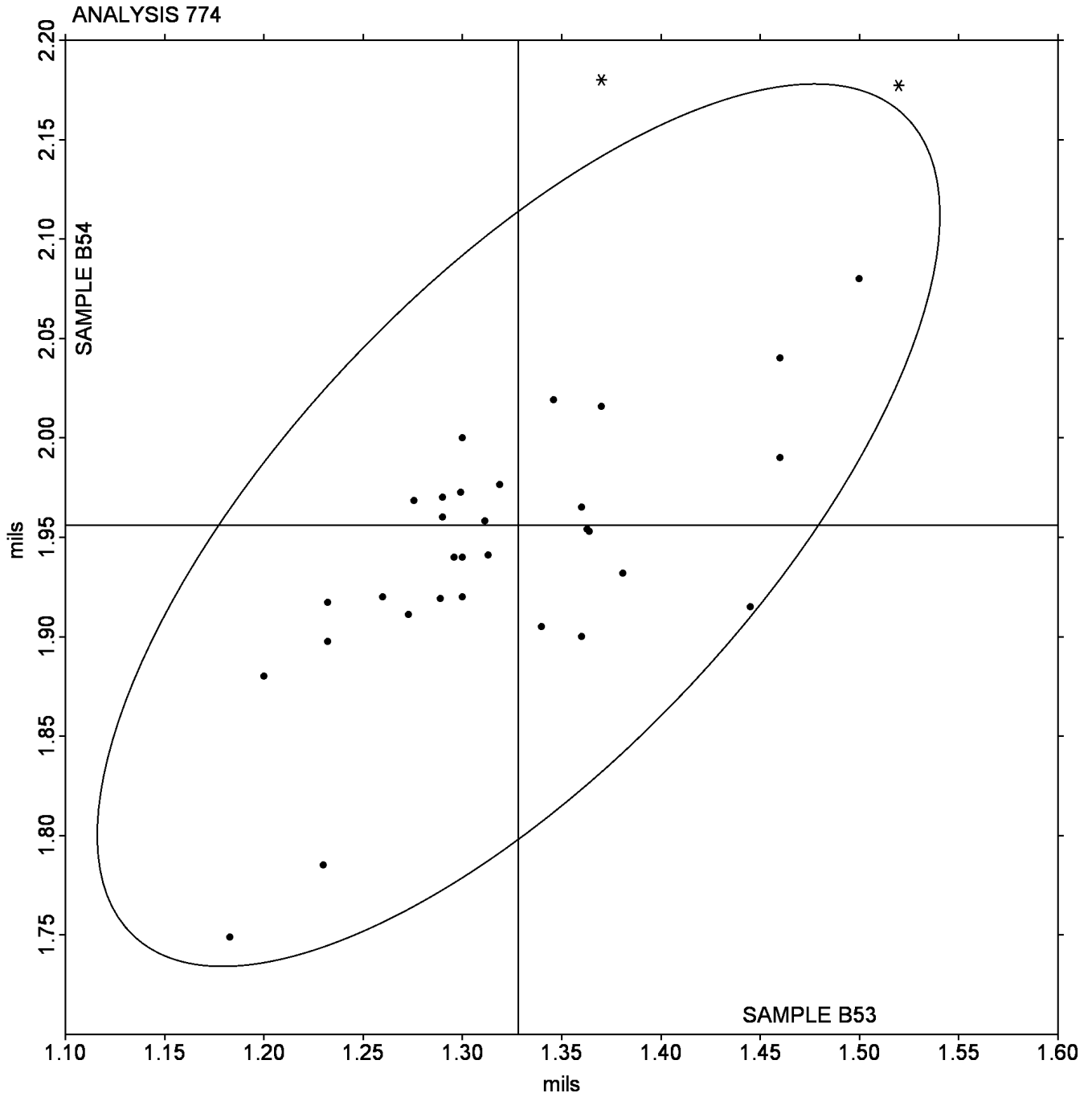
Sample B53: LDPE & Sample B54: LDPE

Instrument Code List as Reported by the Labs

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

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

Grand Mean Sample B53: 1.3283 mils Grand Mean Sample B54: 1.9561 mils



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

**Plastics Interlaboratory Testing Program
Analysis 775**

Secant Modulus at 1% Strain - psi

WebCode	Data Flag	Sample B53			Sample B54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
5UYCJY		50,509	10,206	1.98	41,836	7,759	1.13	IN
8FJZLB		37,133	-3,170	-0.61	28,423	-5,654	-0.82	IM
DCRX5B		38,959	-1,344	-0.26	35,404	1,327	0.19	TH
J5WSQR		37,493	-2,810	-0.54	25,602	-8,475	-1.23	MT
KDJUKB		36,580	-3,723	-0.72	34,350	273	0.04	IN
L8WGMH		42,572	2,269	0.44	38,647	4,570	0.67	TH
R5C2TW		33,240	-7,064	-1.37	23,425	-10,652	-1.55	IN
TQ6KQ9		41,677	1,374	0.27	36,459	2,382	0.35	IN
W32LVT	X	39,457	-846	-0.16	-24,479	-58,556	-8.52	TH
WQX8RE		44,565	4,262	0.83	42,544	8,468	1.23	XX

Summary Statistics

Grand Means

40,303.1 psi

34,076.8 psi

Std Dev Btwn Labs

5,158.4 psi

6,869.7 psi

Statistics based on 9 of 10 reporting participants

Sample B53: LDPE & Sample B54: LDPE

Comments on assigned Data Flags for Test #775

W32LVT (X) - Extreme data.

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

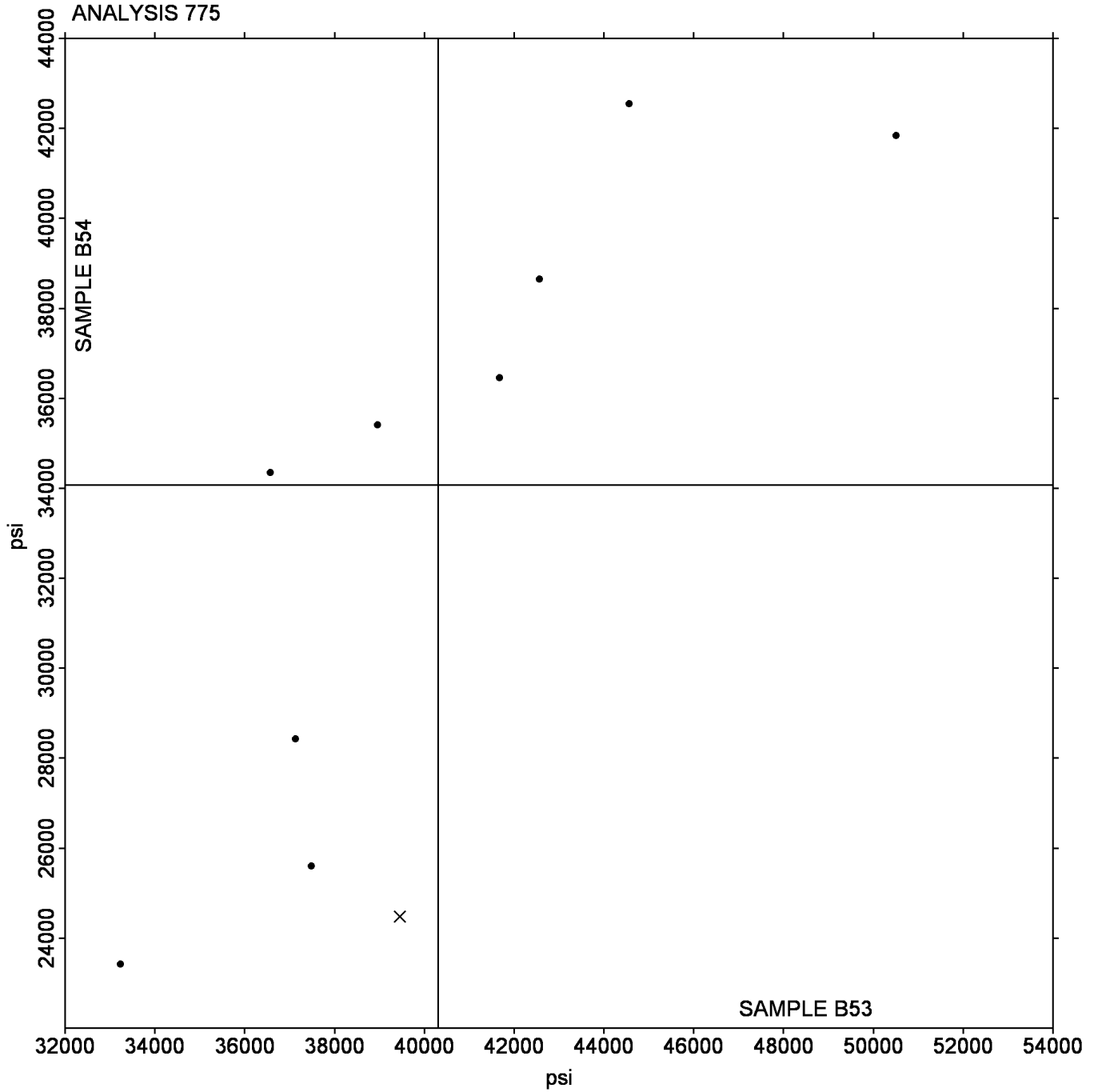
(MT) - MTS/Sintech

(TH) - Thwing Albert

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B53: 40,303.07 psi Grand Mean Sample B54: 34,076.81 psi



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

Plastics Interlaboratory Testing Program
Analysis 776

Secant Modulus at 2% Strain - psi

WebCode	Data Flag	Sample B53			Sample B54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1MNE8C		43,291	3,609	0.44	35,184	2,814	0.41	IM
4F9QC8		39,117	-565	-0.07	36,905	4,535	0.65	XX
6695Q5		37,273	-2,409	-0.29	25,138	-7,232	-1.04	MT
FR54U8		42,385	2,703	0.33	35,079	2,709	0.39	TH
HKH635		33,899	-5,783	-0.70	27,174	-5,196	-0.75	IN
HM8ZT1		31,528	-8,154	-0.99	24,816	-7,553	-1.09	IM
L19WXH		57,010	17,329	2.11	44,891	12,522	1.81	IN
MZW19A		32,950	-6,732	-0.82	29,770	-2,600	-0.38	IN
V67RWU	X	49,007	9,326	1.14	10,875	-21,495	-3.10	TH

Summary Statistics

Grand Means

39,681.5 psi

32,369.7 psi

Std Dev Btwn Labs

8,211.3 psi

6,925.4 psi

Statistics based on 8 of 9 reporting participants

Sample B53: LDPE & Sample B54: LDPE

Comments on assigned Data Flags for Test #776

V67RWU (X) - Extreme data.

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

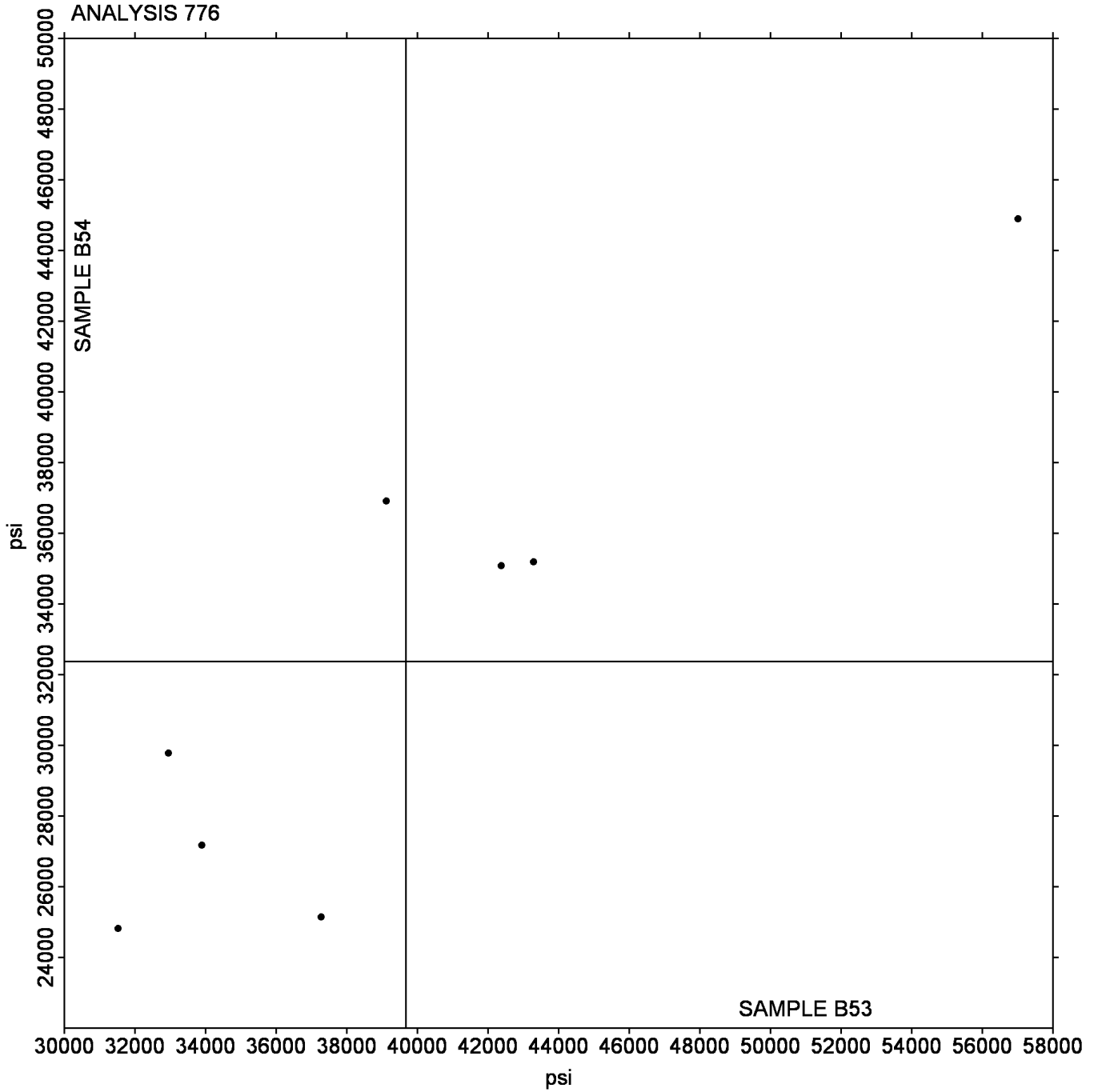
(MT) - MTS/Sintech

(TH) - Thwing Albert

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B53: 39,681.53 psi Grand Mean Sample B54: 32,369.75 psi



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

Plastics Interlaboratory Testing Program
Analysis 780
Coefficient of Static Friction

WebCode	Data Flag	Sample P53			Sample P54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3CQKUC		0.2070	-0.0098	-0.42	0.1742	-0.0254	-0.67	IB
4UNSCP		0.2012	-0.0156	-0.67	0.1968	-0.0028	-0.07	IN
5MUJ3J		0.2012	-0.0156	-0.67	0.1664	-0.0332	-0.88	XX
5PTGZY		0.2578	0.0410	1.77	0.2760	0.0764	2.03	TN
5T3X8N		0.2020	-0.0148	-0.64	0.2280	0.0284	0.76	SA
9VM2BV		0.2134	-0.0034	-0.15	0.2566	0.0570	1.52	TH
FC1ZCU		0.2646	0.0478	2.06	0.1700	-0.0296	-0.79	TH
FC8UJ8		0.2152	-0.0016	-0.07	0.2052	0.0056	0.15	TH
HJ8NX1		0.2164	-0.0004	-0.02	0.2206	0.0210	0.56	TH
LX3J74		0.2132	-0.0036	-0.15	0.1872	-0.0124	-0.33	TN
MY9E26		0.2218	0.0050	0.22	0.1716	-0.0280	-0.74	TN
QXD7SY		0.1860	-0.0308	-1.33	0.1774	-0.0222	-0.59	TH
T3EYU1		0.1950	-0.0218	-0.94	0.1660	-0.0336	-0.89	KA
YC6K6L		0.2576	0.0408	1.76	0.2488	0.0492	1.31	IS
ZAPJ7X		0.2060	-0.0108	-0.47	0.1430	-0.0566	-1.50	DY
ZCE329		0.2102	-0.0066	-0.28	0.2052	0.0056	0.15	TH

Summary Statistics

Grand Means

0.21679 COF

0.19956 COF

Std Dev Btwn Labs

0.02319 COF

0.03760 COF

Statistics based on 16 of 16 reporting participants

Sample P53: LDPE & Sample P54: LDPE

Instrument Code List as Reported by the Labs

(DY) - Dynisco Model D1055

(IB) - Instron Model 1122 w/ MTS/Sintech upgrade

(IN) - Instron 4200 Series

(IS) - Instron Model 5565

(KA) - Kayeness Inc.

(SA) - Shimadzu Autograph AG 2000 A

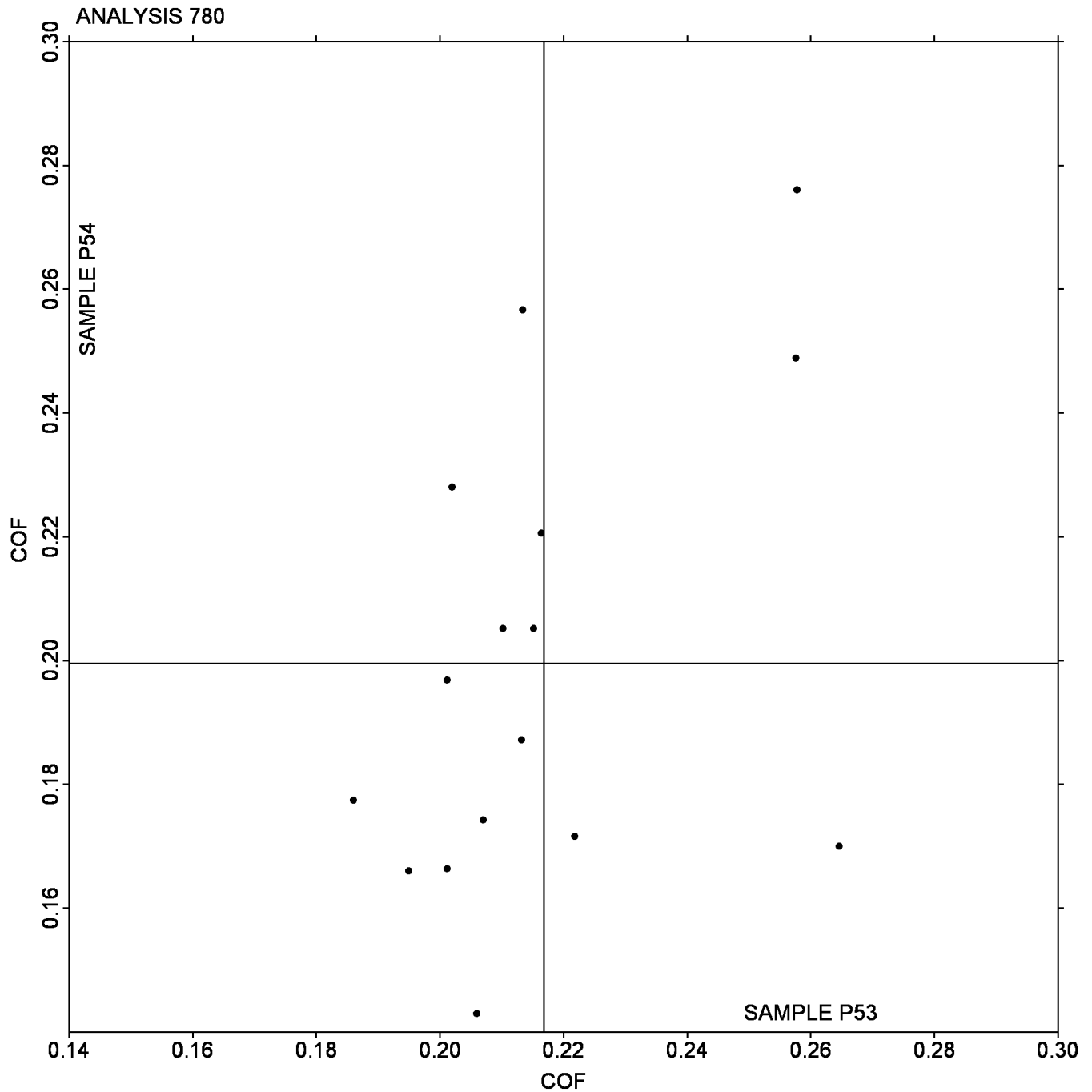
(TH) - Thwing Albert Friction/Peel Tester Model 225-1

(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 P53: 0.21679 COF Grand Mean Sample P54: 0.19956 COF



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

**Plastics Interlaboratory Testing Program
Analysis 781**

Coefficient of Kinetic Friction

WebCode	Data Flag	Sample P53			Sample P54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2QTAR6		0.1914	-0.0001	-0.01	0.1356	-0.0056	-0.26	TH
3EK7KN		0.1854	-0.0061	-0.31	0.1284	-0.0128	-0.61	TH
61Z1TR		0.1870	-0.0045	-0.23	0.1110	-0.0302	-1.43	DY
6HNGGM		0.1844	-0.0071	-0.36	0.1354	-0.0058	-0.27	IN
6KSVMM		0.1760	-0.0155	-0.79	0.1420	0.0008	0.04	SA
79YKHD		0.1768	-0.0147	-0.75	0.1068	-0.0344	-1.63	TH
9PL9CD		0.1854	-0.0061	-0.31	0.1414	0.0002	0.01	XX
C8191R		0.1706	-0.0209	-1.06	0.1382	-0.0030	-0.14	TH
ELFRD6		0.1712	-0.0203	-1.03	0.1298	-0.0114	-0.54	TH
NJGQW2		0.1804	-0.0111	-0.57	0.1588	0.0176	0.84	TN
QFTX9Q		0.2074	0.0159	0.81	0.1452	0.0040	0.19	IB
RJPZJJ		0.2232	0.0317	1.61	0.1278	-0.0134	-0.63	TH
RTT9Q9		0.1932	0.0017	0.08	0.1804	0.0392	1.86	TN
SBG5EN		0.2418	0.0503	2.55	0.1796	0.0384	1.82	IS
TUVND1		0.1990	0.0075	0.38	0.1572	0.0160	0.76	TN

Summary Statistics

Grand Means

0.19155 COF

0.14117 COF

Std Dev Btwn Labs

0.01968 COF

0.02111 COF

Statistics based on 15 of 15 reporting participants

Sample P53: LDPE & Sample P54: LDPE

Instrument Code List as Reported by the Labs

(DY) - Dynisco Model D1055

(IB) - Instron Model 1122 w/ MTS/Sintech upgrade

(IN) - Instron 4200 Series

(IS) - Instron Model 5565

(SA) - Shimadzu Autograph AG 2000 A

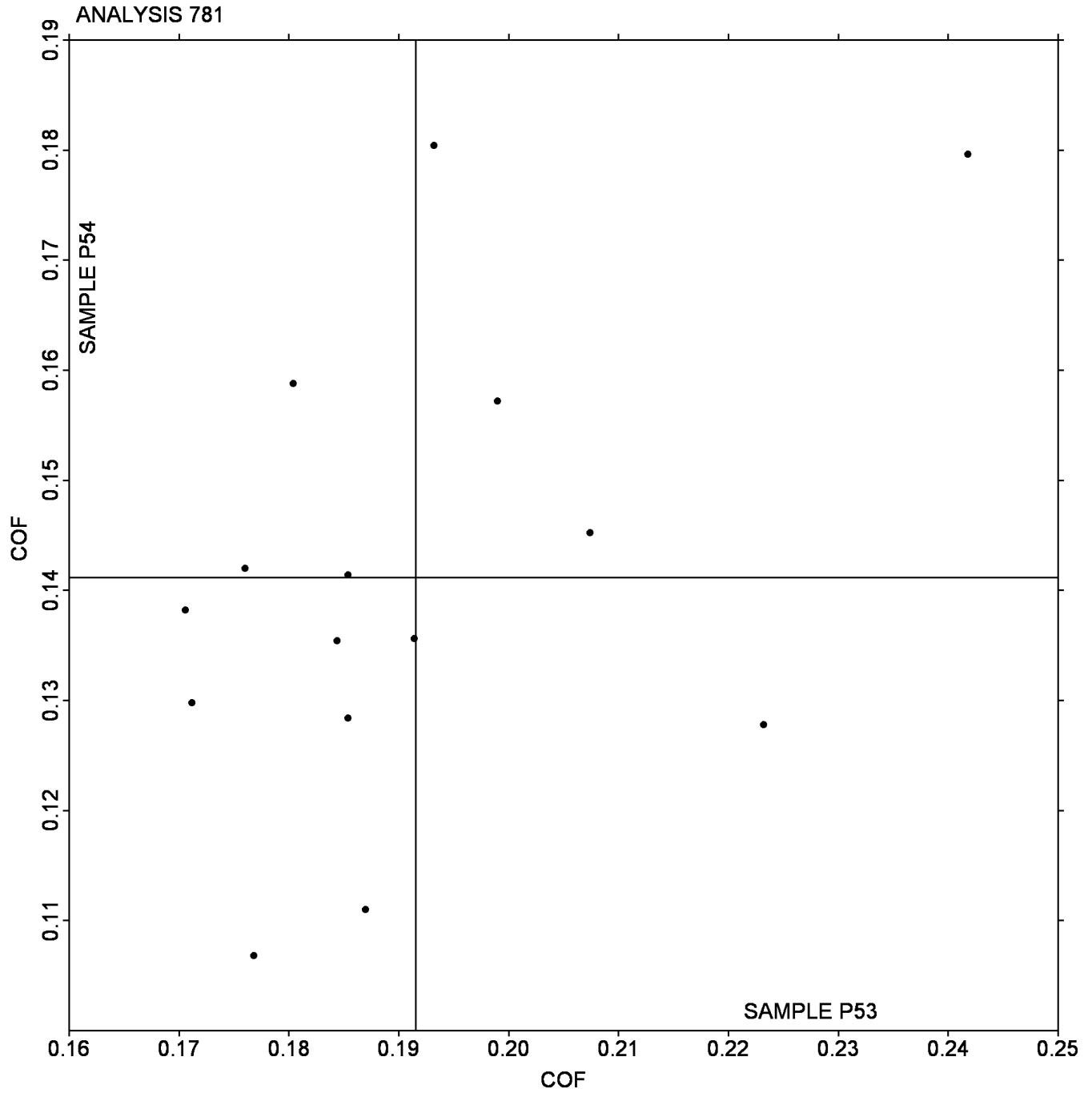
(TH) - Thwing Albert Friction/Peel Tester Model 225-1

(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 P53: 0.19155 COF Grand Mean Sample P54: 0.14117 COF



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

Plastics Interlaboratory Testing Program
Analysis 782
Tear Resistance of Films

WebCode	Data Flag	Sample Q53			Sample Q54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
16T1NZ		308.3	-106.5	-1.18	44.9	-0.9	-0.08	TM
2QDR68		331.2	-83.6	-0.92	34.5	-11.3	-1.09	TH
5D8G1G		446.0	31.3	0.35	37.5	-8.2	-0.80	XX
D33C9D		374.4	-40.3	-0.45	33.4	-12.3	-1.19	LO
F9TZ4B		472.0	57.2	0.63	41.6	-4.2	-0.40	TJ
FHZZJ5		320.9	-93.9	-1.04	49.9	4.1	0.40	TE
FT4EFG		540.4	125.6	1.39	63.9	18.2	1.75	AL
LBFM5C		372.8	-42.0	-0.46	41.2	-4.6	-0.44	TM
PT4D6A		566.4	151.6	1.68	50.4	4.6	0.45	TE
RNSAUW		415.4	0.6	0.01	60.3	14.6	1.40	TF

Summary Statistics

Grand Means

414.79 grams-force

45.77 grams-force

Std Dev Btwn Labs

90.40 grams-force

10.36 grams-force

Statistics based on 10 of 10 reporting participants

Sample Q53: LDPE & Sample Q54: 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

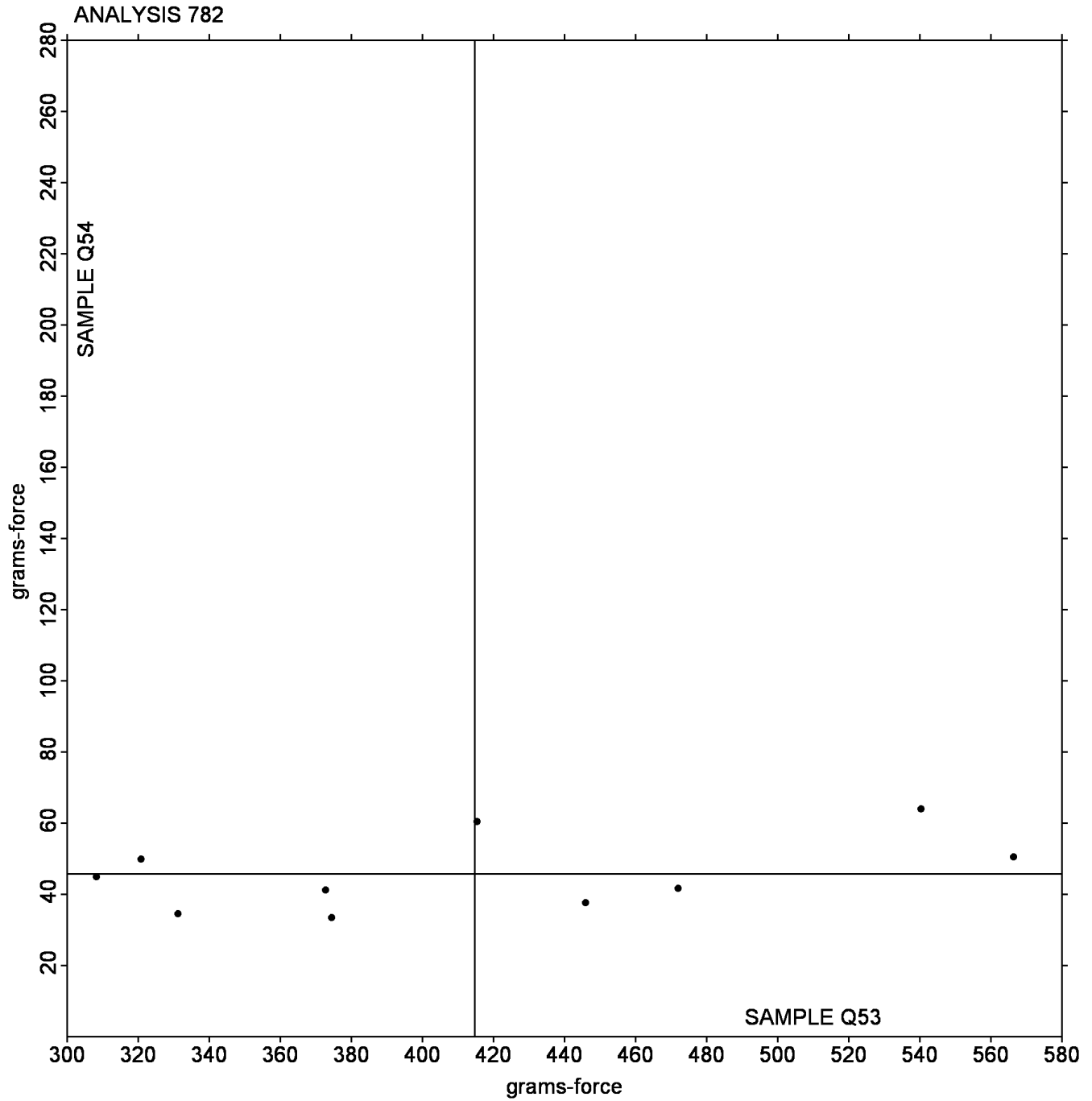
(TJ) - Thwing-Albert Model 1628

(TM) - TMI No. 83-1100

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

Plastics Interlaboratory Testing Program
Analysis 782
Tear Resistance of Films

Grand Mean Sample Q53: 414.79 grams-force Grand Mean Sample Q54: 45.770 grams-force



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

Plastics Interlaboratory Testing Program
Analysis 785
Percent Haze of Film

WebCode	Data Flag	Sample D53			Sample D54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
274RC1		12.813	0.334	0.36	12.913	0.191	0.22	BJ
3MZPHP		12.225	-0.253	-0.27	13.275	0.554	0.62	XX
3U4N85		10.825	-1.653	-1.77	12.025	-0.696	-0.79	BH
62M1NV		11.564	-0.915	-0.98	11.195	-1.526	-1.72	HL
9P37NR	*	9.593	-2.886	-3.09	10.093	-2.629	-2.97	HL
DDBAQ8		12.913	0.434	0.46	12.688	-0.034	-0.04	BJ
ESVTGG		12.288	-0.191	-0.20	12.763	0.041	0.05	BJ
GZVYVW		12.900	0.422	0.45	12.863	0.141	0.16	BJ
J92RN9		12.863	0.384	0.41	13.313	0.591	0.67	BJ
K8HVAU		13.175	0.697	0.75	12.850	0.129	0.15	BJ
LT5TGC		12.450	-0.028	-0.03	12.700	-0.021	-0.02	BJ
QFHZA1		12.938	0.459	0.49	12.825	0.104	0.12	BJ
QTY4W9		11.863	-0.616	-0.66	11.775	-0.946	-1.07	BH
R16R9N		13.210	0.732	0.78	14.136	1.415	1.60	BT
S5JVFG		12.475	-0.003	0.00	13.050	0.329	0.37	BJ
S6J7L5		12.863	0.384	0.41	12.725	0.004	0.00	BJ
T263TN		13.675	1.197	1.28	13.300	0.579	0.65	BG
TA2YVS		13.125	0.647	0.69	13.263	0.541	0.61	BJ
U92FA2		12.863	0.384	0.41	13.513	0.791	0.89	BJ
VHHA6P		12.950	0.472	0.50	13.163	0.441	0.50	BJ

Summary Statistics

Grand Means

12.4783 Percent

12.7212 Percent

Std Dev Btwn Labs

0.9348 Percent

0.8862 Percent

Statistics based on 20 of 20 reporting participants

Sample D53: LDPE & Sample D54: LDPE

Plastics Interlaboratory Testing Program
Analysis 785
Percent Haze of Film

Instrument Code List as Reported by the Labs

(BG) - BYK-Gardner/Pacific Scientific

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

(BJ) - BYK-Gardner Haze-Gard Plus

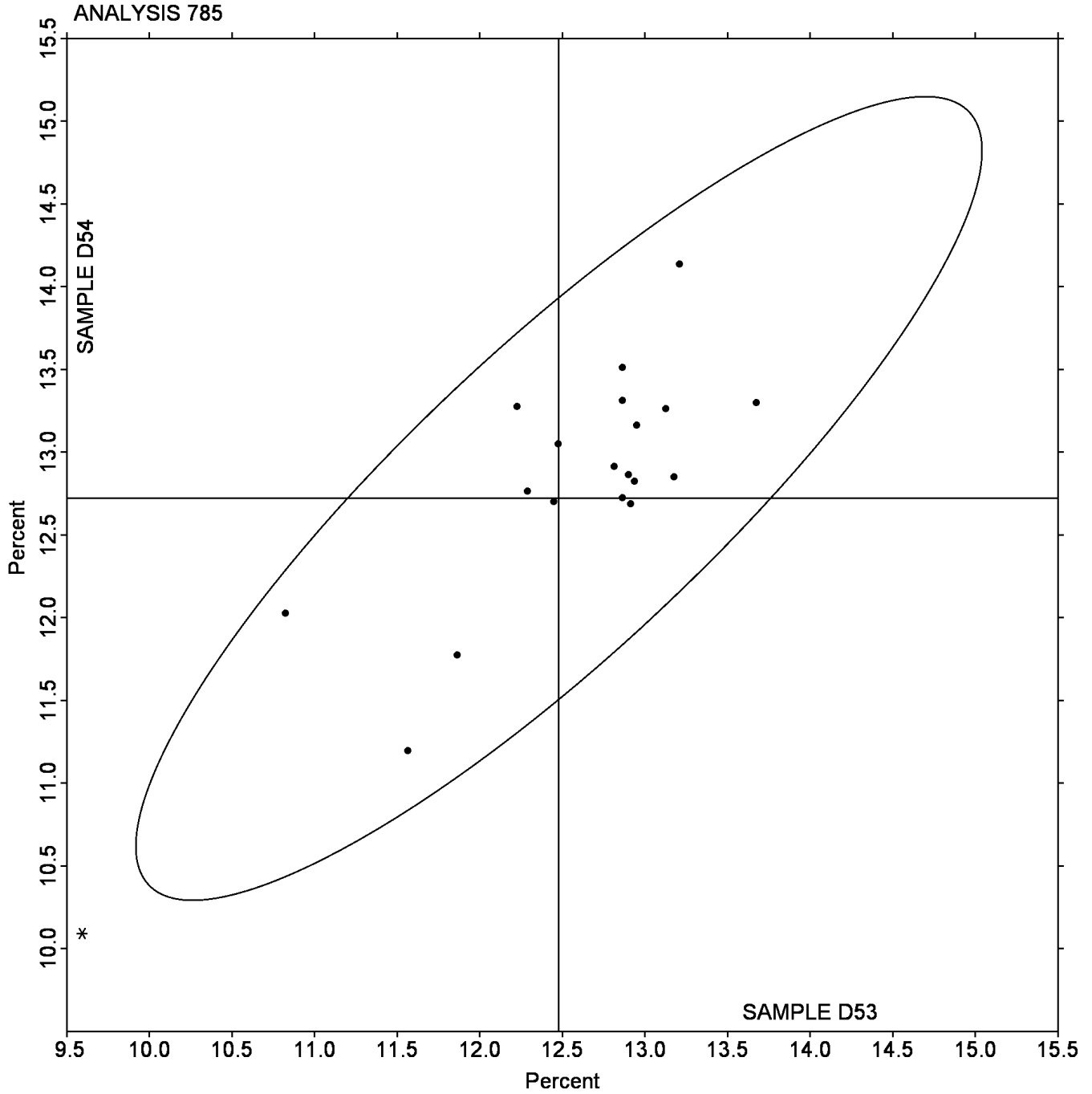
(BT) - BYK Gardner TCS Plus Spectrophotometer

(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 D53: 12.478 Percent Grand Mean Sample D54: 12.721 Percent



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

Plastics Interlaboratory Testing Program
Analysis 786

Total Luminous transmittance of film

WebCode	Data Flag	Sample D53			Sample D54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1GYV5W		94.33	1.45	1.32	94.53	1.38	1.31	BJ
2U267U		91.18	-1.70	-1.55	91.29	-1.86	-1.76	BJ
2YFBWW		93.63	0.75	0.68	93.83	0.68	0.64	BJ
5TGDZG		94.26	1.39	1.26	94.48	1.33	1.26	BJ
B8S53N		90.67	-2.21	-2.01	91.06	-2.08	-1.97	HL
BZZFEE		93.35	0.47	0.43	93.53	0.38	0.36	XX
DPZR7N		92.36	-0.51	-0.47	92.45	-0.69	-0.66	BH
FUAJSZ		92.80	-0.08	-0.07	93.26	0.12	0.11	BJ
KPDH68		93.09	0.21	0.19	93.34	0.19	0.18	BJ
NFYDRQ		92.73	-0.15	-0.14	93.05	-0.09	-0.09	BT
NS7Y9J		92.94	0.06	0.06	93.26	0.12	0.11	BJ
R5B9VN		93.05	0.17	0.16	93.35	0.21	0.19	BG
R7JY3L		93.46	0.59	0.53	93.76	0.62	0.59	BJ
UGY4X8		93.85	0.97	0.89	94.06	0.92	0.87	BJ
WW7T3X		93.29	0.41	0.37	93.46	0.32	0.30	BJ
ZXP67K		93.24	0.36	0.33	93.54	0.39	0.37	BJ
ZZ26J1		90.68	-2.20	-2.00	91.23	-1.92	-1.82	HL

Summary Statistics

Grand Means

92.876 Percent

93.145 Percent

Std Dev Btwn Labs

1.100 Percent

1.055 Percent

Statistics based on 17 of 17 reporting participants

Sample D53: LDPE & Sample D54: LDPE

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

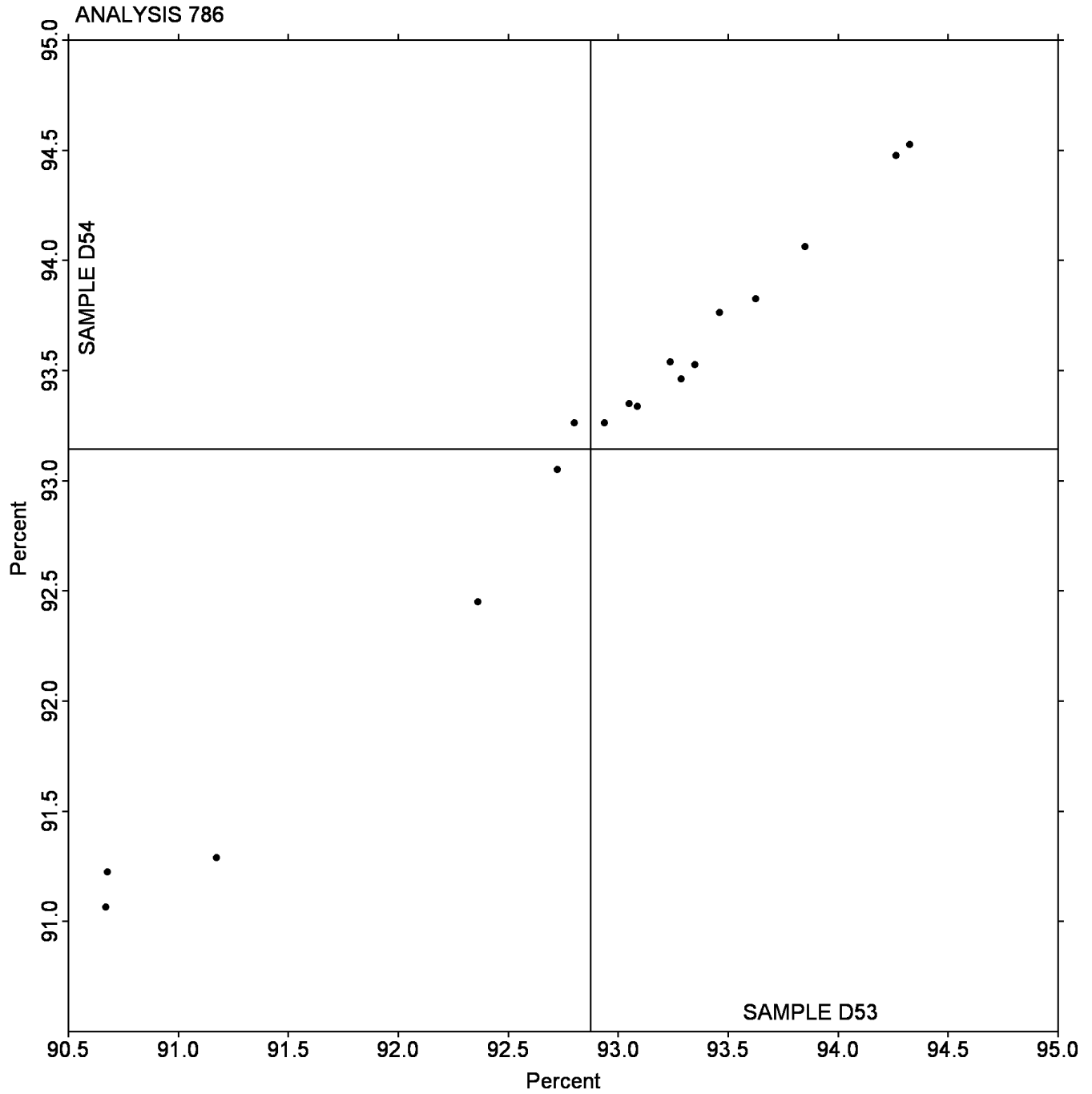
(BT) - BYK Gardner TCS Plus Spectrophotometer

(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 D53: 92.876 Percent Grand Mean Sample D54: 93.145 Percent



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