

Plastics Interlaboratory Testing Program

Web Summary Report #67, 3rd Qtr 2008

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704	Tensile Stress at Yield, Plastic Samples	718	Specific Gravity
705	Tensile Stress at Break, Plastic Samples	755	Moisture Content of Plastics
706	Percent Elongation at Yield, Plastic Samples	757	Ash Content in Thermoplastics
708	Modulus of Elasticity, Plastic Samples	770	Tensile Stress at Yield, Film Samples
730	Tensile Stress at Yield, ISO Plastic Samples	771	Tensile Stress at Break, Film Samples
731	Tensile Stress at Break, ISO Plastic Samples	772	Percent Elongation at Yield, Film Samples
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720	Flexural Modulus	775	Secant Modulus at 1% Strain
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722	Flexural Stress at Yield	780	Coefficient of Friction: Static
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750	Flow Rates of Thermoplastics (2.16 kg load)		

About CTS and the Plastics Interlaboratory Program

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

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

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

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

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Key for Web Summary Report (Page 1 of 2)

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

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

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

Common Problems Highlighted in Footnotes

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

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

Results Summary for Web Summary Report #67

Plastics Interlaboratory Testing Program

Analysis 704 - Tensile Stress at Yield

Material: HIPS	Sample F71	4,405.59	psi	3.93% COV
	Sample F72	4,447.23	psi	3.53% COV

Analysis 705 - Tensile Stress at Break

Material: HIPS	Sample F71	3,699.40	psi	4.43% COV
	Sample F72	3,761.11	psi	3.79% COV

Analysis 706 - Percent Elongation at Yield

Material: HIPS	Sample F71	1.5988	Percent	9.14% COV
	Sample F72	1.6138	Percent	9.00% COV

Analysis 708 - Modulus of Elasticity

Material: HIPS	Sample F71	335.81	ksi	4.66% COV
	Sample F72	336.82	ksi	4.64% COV

Analysis 730 - Tensile Stress at Yield, ISO Method

Material: ABS	Sample C71	48.397	MPa	1.94% COV
	Sample C72	48.237	MPa	1.88% COV

Analysis 731 - Tensile Stress at Break, ISO Method

Material: ABS	Sample C71	35.372	MPa	5.26% COV
	Sample C72	35.213	MPa	5.15% COV

Analysis 732 - Strain at Yield, ISO Method

Material: ABS	Sample C71	2.6602	Percent	3.75% COV
	Sample C72	2.6498	Percent	4.19% COV

Analysis 734 - Modulus of Elasticity, ISO Method

Material: ABS	Sample C71	2,375.34	MPa	5.56% COV
	Sample C72	2,368.30	MPa	6.10% COV

Analysis 720 - Flexural Modulus

Material: ABS/PC	Sample J71	411.58	ksi	4.18% COV
	Sample J72	422.28	ksi	4.39% COV

Analysis 721 - Flexural Stress at 5% Strain

Material: ABS/PC	Sample J71	14,533.85	psi	3.50% COV
	Sample J72	14,055.88	psi	3.58% COV

Analysis 722 - Flexural Stress at Yield

Material: ABS/PC	Sample J71	14,415.56	psi	3.71% COV
	Sample J72	13,872.26	psi	3.48% COV

Analysis 736 - Flexural Modulus

Material: ABS	Sample K71	2,402.29	MPa	3.82% COV
	Sample K72	2,387.06	MPa	3.76% COV

Analysis 737 - Flexural Stress at 3.5% Strain

Material: ABS	Sample K71	72.443	MPa	2.36% COV
	Sample K72	71.537	MPa	1.94% COV

Results Summary for Web Summary Report #67

Plastics Interlaboratory Testing Program

Analysis 738 - Flexural Stress at Yield

Material: ABS	Sample K71	74.020	MPa	2.69% COV
	Sample K72	72.995	MPa	2.28% COV

Analysis 790 - Notched Izod Impact

Material: HIPS	Sample S71	4.8023	ft.lbf/in	5.22% COV
	Sample S72	5.1669	ft.lbf/in	6.35% COV

Analysis 792 - Notched Charpy Impact

Material: ABS/PC	Sample M71	23.129	kJ/m ²	18.9% COV
	Sample M72	22.552	kJ/m ²	19.9% COV

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

Material: ABS/PC	Sample E71	88.436	Degrees C	1.50% COV
	Sample E72	87.312	Degrees C	1.53% COV

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

Material: PP	Sample G71	95.967	Degrees C	2.46% COV
	Sample G72	85.322	Degrees C	2.03% COV

Analysis 712 - Temperature of Deflection (1.80 MPa)

Material: ABS	Sample N71	82.222	Degrees C	0.964% COV
	Sample N72	81.974	Degrees C	1.24% COV

Analysis 715 - Vicat Temperature (Rate A)

Material: HIPS	Sample H71	100.36	Degrees C	0.983% COV
	Sample H72	100.63	Degrees C	1.03% COV

Analysis 716 - Vicat Temperature (Rate B)

Material: HIPS	Sample R71	102.38	Degrees C	1.08% COV
	Sample R72	102.63	Degrees C	1.03% COV

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

Material: LDPE	Sample X71	6.4893	grams/10 mins	3.79% COV
	Sample X72	5.9378	grams/10 mins	3.73% COV

Analysis 718 - Specific Gravity

Material: ABS	Sample T71	1.0451	sp gr 23/23 C	0.188% COV
	Sample T72	1.0458	sp gr 23/23 C	0.196% COV

Analysis 757 - Ash Content

Material: PBT	Sample L71	17.886	Percent	0.947% COV
	Sample L72	15.136	Percent	0.628% COV

Analysis 770 - Tensile Stress at Yield, Films

Material: LDPE	Sample B71	1,969.14	psi	10.3% COV
	Sample B72	2,131.24	psi	12.3% COV

Analysis 771 - Tensile Stress at Break, Films

Material: LDPE	Sample B71	3,859.77	psi	11.7% COV
	Sample B72	3,768.95	psi	10.7% COV

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Analysis 772 - Elongation at Yield, Films

Material: LDPE	Sample B71	70.661	Percent	48.6% COV
	Sample B72	80.706	Percent	50.6% COV

Analysis 773 - Elongation at Break, Films

Material: LDPE	Sample B71	771.28	Percent	23.8% COV
	Sample B72	710.24	Percent	25.0% COV

Analysis 774 - Thickness of Film Specimens

Material: LDPE	Sample B71	3.9349	mils	1.92% COV
	Sample B72	3.8568	mils	1.91% COV

Analysis 775 - Secant Modulus at 1% Strain

Material: LDPE	Sample B71	31,181.00	psi	15.0% COV
	Sample B72	31,895.20	psi	13.5% COV

Analysis 776 - Secant Modulus at 2% Strain

Material: LDPE	Sample B71	25,774.74	psi	13.2% COV
	Sample B72	26,929.75	psi	12.8% COV

Analysis 780 - Static Friction

Material: LDPE	Sample P71	0.20785	COF	26.0% COV
	Sample P72	0.17205	COF	16.5% COV

Analysis 781 - Kinetic Friction

Material: LDPE	Sample P71	0.15929	COF	22.7% COV
	Sample P72	0.11984	COF	24.4% COV

Analysis 782 - Tear Resistance of Film

Material: LDPE	Sample Q71	180.99	grams-force	12.7% COV
	Sample Q72	227.96	grams-force	25.6% COV

Analysis 785 - Percent Haze

Material: LDPE	Sample D71	12.725	Percent	5.09% COV
	Sample D72	12.695	Percent	6.11% COV

Analysis 786 - Total Transmittance

Material: LDPE	Sample D71	92.830	Percent	1.18% COV
	Sample D72	92.862	Percent	1.17% COV

Analysis 755 - Moisture Content

Material: HIPS	Sample Y71	0.02774	Percent	32.7% COV
	Sample Y72	0.02632	Percent	38.4% COV

Plastics Interlaboratory Testing Program

Analysis 704

Tensile Stress at Yield - psi

WebCode	Data Flag	Sample F71			Sample F72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
141K62		4,344.7	-60.9	-0.35	4,412.8	-34.5	-0.22
1J6M9W	X	12,308.0	7,902.4	45.68	4,397.6	-49.6	-0.32
1MBNRS		4,562.8	157.2	0.91	4,563.2	116.0	0.74
1TE6WS		4,675.0	269.4	1.56	4,711.0	263.8	1.68
2CXSNZ		4,457.4	51.8	0.30	4,493.4	46.2	0.29
3B49NC		4,333.4	-72.2	-0.42	4,341.2	-106.0	-0.68
3BTSNY		4,326.6	-79.0	-0.46	4,370.2	-77.0	-0.49
436B7F		4,415.9	10.3	0.06	4,396.4	-50.8	-0.32
4KM4UC		4,211.9	-193.7	-1.12	4,362.8	-84.5	-0.54
4QR31W		4,313.6	-92.0	-0.53	4,252.8	-194.4	-1.24
4VX4ZZ		4,524.1	118.5	0.68	4,481.7	34.4	0.22
572HHP		4,415.0	9.4	0.05	4,420.8	-26.4	-0.17
59ZKTD		4,552.8	147.2	0.85	4,551.2	104.0	0.66
6AUR5H		4,438.7	33.1	0.19	4,470.5	23.2	0.15
6BN9TK		4,423.4	17.8	0.10	4,472.2	25.0	0.16
6JBSTF		4,374.4	-31.2	-0.18	4,336.4	-110.8	-0.71
6QSCEE	X	19,472.9	15,067.3	87.09	20,322.9	15,875.6	101.12
6Y5VZ4		4,298.2	-107.4	-0.62	4,426.8	-20.4	-0.13
8C62R6		4,412.6	7.0	0.04	4,386.8	-60.4	-0.38
95AZ1L	*	4,173.4	-232.2	-1.34	4,446.2	-1.0	-0.01
9JCDFX		4,205.8	-199.8	-1.15	4,295.4	-151.8	-0.97
9KQ5AZ		4,672.0	266.4	1.54	4,747.4	300.2	1.91
A1KQ3Y	X	3,666.6	-739.0	-4.27	3,654.4	-792.8	-5.05
ABSSSB		4,118.4	-287.2	-1.66	4,271.4	-175.8	-1.12
AGCJUS		4,485.2	79.6	0.46	4,493.0	45.8	0.29
AK2JF3		4,644.2	238.6	1.38	4,624.4	177.1	1.13
APL14K		4,583.2	177.6	1.03	4,612.2	165.0	1.05
CC1MM2		4,412.4	6.8	0.04	4,555.0	107.8	0.69
DGAZ6L		4,370.4	-35.2	-0.20	4,521.8	74.6	0.47
DSY889	*	3,910.4	-495.2	-2.86	3,962.8	-484.4	-3.09
E8JQP4		4,270.2	-135.4	-0.78	4,325.4	-121.8	-0.78
F5S41N		4,482.8	77.2	0.45	4,443.2	-4.0	-0.03

Plastics Interlaboratory Testing Program

Analysis 704

Tensile Stress at Yield - psi

WebCode	Data Flag	Sample F71			Sample F72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
FA41S2		4,470.7	65.1	0.38	4,480.3	33.0	0.21
FAFV6V		4,636.6	231.0	1.34	4,541.2	94.0	0.60
FD8GFX		4,121.0	-284.6	-1.64	4,328.4	-118.8	-0.76
G36QEA		4,235.1	-170.5	-0.99	4,264.1	-183.1	-1.17
G83MDW		4,555.6	150.0	0.87	4,595.2	148.0	0.94
HNPFCZ		4,545.5	139.9	0.81	4,586.1	138.9	0.88
HVBP9H		4,274.4	-131.2	-0.76	4,446.8	-0.4	0.00
HWF79S		4,234.0	-171.6	-0.99	4,174.8	-272.4	-1.74
JAKMM1	X	3,543.7	-861.9	-4.98	3,631.5	-815.8	-5.20
JKCR1U		4,318.6	-87.0	-0.50	4,479.0	31.8	0.20
JYWDAU		4,045.4	-360.2	-2.08	4,096.8	-350.5	-2.23
KNUFVR		4,733.5	328.0	1.90	4,660.5	213.2	1.36
L36AS1		4,483.4	77.9	0.45	4,491.6	44.3	0.28
LNAU33		4,528.1	122.5	0.71	4,429.5	-17.7	-0.11
MBWHEH		4,565.8	160.2	0.93	4,589.0	141.8	0.90
MJRPTR		4,347.4	-58.2	-0.34	4,449.8	2.6	0.02
ML2GXR		4,359.3	-46.3	-0.27	4,378.1	-69.1	-0.44
ND6S5U	X	3,731.8	-673.8	-3.89	3,775.4	-671.8	-4.28
P21ZHZ		4,288.8	-116.8	-0.68	4,245.4	-201.8	-1.29
PHHRXK		4,368.6	-37.0	-0.21	4,441.1	-6.1	-0.04
PJEVWM		4,267.0	-138.5	-0.80	4,281.6	-165.7	-1.06
PSH7LA		4,484.2	78.6	0.45	4,385.0	-62.2	-0.40
Q14XCV		4,285.8	-119.8	-0.69	4,302.2	-145.0	-0.92
Q5TFC7		4,488.0	82.4	0.48	4,461.2	14.0	0.09
QNPHZQ		4,350.6	-55.0	-0.32	4,444.9	-2.4	-0.02
QQDUTU		4,515.6	110.0	0.64	4,562.4	115.2	0.73
R2S9FT		4,344.0	-61.6	-0.36	4,552.0	104.8	0.67
R3S1W9		4,426.6	21.0	0.12	4,389.0	-58.2	-0.37
RCTGPZ		4,574.2	168.6	0.97	4,620.2	173.0	1.10
REL38V		4,322.2	-83.4	-0.48	4,371.5	-75.8	-0.48
RY6TCT		4,372.0	-33.6	-0.19	4,540.2	93.0	0.59
T239PD		4,481.8	76.2	0.44	4,597.0	149.8	0.95

Analysis 704

Tensile Stress at Yield - psi

WebCode	Data Flag	Sample F71			Sample F72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
TZX3AM		4,230.4	-175.2	-1.01	4,329.2	-118.0	-0.75
V1VWVQ		4,611.6	206.0	1.19	4,634.0	186.8	1.19
V7X52H		4,462.4	56.8	0.33	4,515.2	68.0	0.43
VXKM9Z		4,119.6	-286.0	-1.65	4,124.5	-322.7	-2.06
XFZYCW		4,715.5	309.9	1.79	4,684.5	237.2	1.51
XWKNCR		4,286.0	-119.6	-0.69	4,482.0	34.8	0.22
XXWFBZ		4,594.4	188.8	1.09	4,476.9	29.7	0.19
Y4W66P		4,254.0	-151.6	-0.88	4,298.0	-149.2	-0.95
Y8QBFL		4,405.7	0.1	0.00	4,417.0	-30.2	-0.19
Z6YWY3		4,248.2	-157.4	-0.91	4,304.8	-142.5	-0.91
ZD45MW	*	4,872.0	466.4	2.70	4,916.0	468.8	2.99
ZTALYX		4,564.4	158.8	0.92	4,638.0	190.8	1.22

Summary Statistics	
Grand Means	4,405.59 psi 4,447.23 psi
Stnd Dev Btwn Labs	173.01 psi 157.00 psi
Statistics based on 71 of 76 reporting participants	

Sample F71: HIPS & Sample F72: HIPS

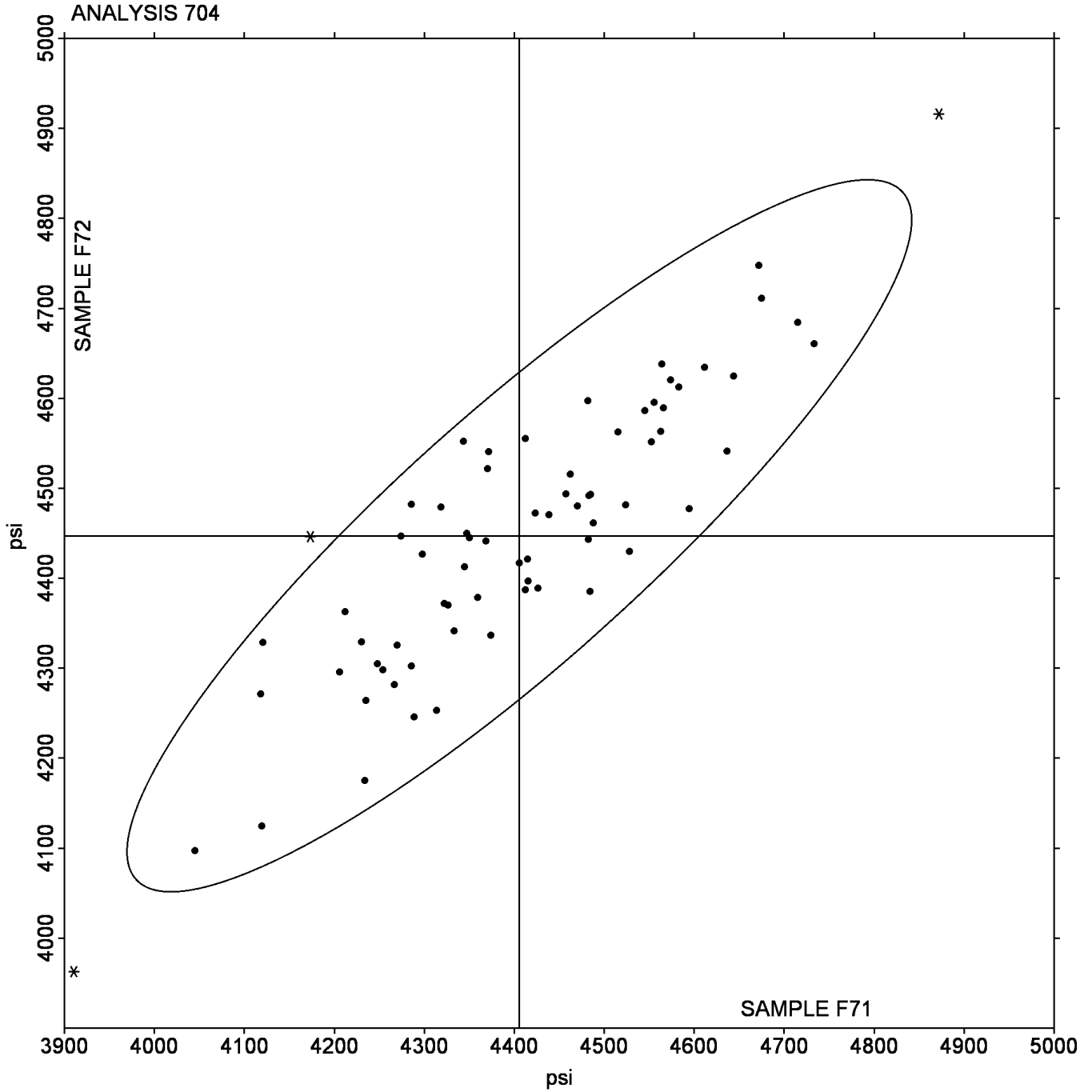
Comments on assigned Data Flags for Test #704

- 1J6M9W (X) - Inconsistent in testing between samples, extreme data for Sample F71.
- 6QSCEE (X) - Extreme data.
- A1KQ3Y (X) - Data for both samples are low.
- JAKMM1 (X) - Data for both samples are low.
- ND6S5U (X) - Data for both samples are low. Possible Systematic Error.

Analysis 704

Tensile Stress at Yield - psi

Grand Mean Sample F71: 4,405.59 psi Grand Mean Sample F72: 4,447.23 psi



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

Plastics Interlaboratory Testing Program

Analysis 705

Tensile Stress at Break - psi

WebCode	Data Flag	Sample F71			Sample F72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
13RNZQ		3,609.4	-90.0	-0.55	3,691.2	-69.9	-0.49
1LDBLY		3,691.4	-8.0	-0.05	3,804.6	43.5	0.31
2CRJG7		3,680.2	-19.2	-0.12	3,780.3	19.2	0.13
325Y9F		3,440.3	-259.1	-1.58	3,428.7	-332.4	-2.33
39UUSJ		3,669.5	-29.9	-0.18	3,762.3	1.2	0.01
3W12ZG		3,536.0	-163.4	-1.00	3,806.0	44.9	0.31
44BKSE		3,724.0	24.6	0.15	3,807.0	45.9	0.32
4915XF		3,931.8	232.4	1.42	3,975.0	213.9	1.50
4A6NKQ		3,776.8	77.4	0.47	3,805.8	44.7	0.31
4K87MS		3,742.0	42.6	0.26	3,887.0	125.9	0.88
4Y5EBV		3,710.8	11.4	0.07	3,646.0	-115.1	-0.81
4Y61BF		3,666.9	-32.5	-0.20	3,637.9	-123.2	-0.86
4ZHLJB		3,592.6	-106.8	-0.65	3,704.4	-56.7	-0.40
7C2CJA		3,494.1	-205.3	-1.25	3,571.3	-189.8	-1.33
8K2NEE		3,767.4	68.0	0.42	3,816.4	55.3	0.39
A149AR		3,704.0	4.6	0.03	3,736.0	-25.1	-0.18
A3HAC1		3,915.2	215.8	1.32	3,809.8	48.7	0.34
B16HS3		3,748.2	48.8	0.30	3,810.4	49.3	0.35
C1L2C1		3,722.9	23.5	0.14	3,908.8	147.7	1.04
CKGLEE		3,822.2	122.8	0.75	3,925.0	163.9	1.15
D3QK21		3,580.0	-119.4	-0.73	3,716.4	-44.7	-0.31
DNWXTN		3,682.8	-16.6	-0.10	3,761.7	0.6	0.00
DVRQU9	*	3,462.6	-236.8	-1.45	3,850.6	89.5	0.63
F52F1B		3,901.6	202.2	1.23	3,957.8	196.7	1.38
FQABBF		3,748.6	49.2	0.30	3,789.4	28.3	0.20
GC5V5W		3,742.0	42.6	0.26	3,820.3	59.2	0.42
GF643E		3,758.8	59.4	0.36	3,708.2	-52.9	-0.37
GLLKTX		3,739.1	39.7	0.24	3,782.6	21.5	0.15
GPXY95		3,745.8	46.4	0.28	3,714.7	-46.4	-0.33
HVJHEB		3,936.1	236.7	1.44	3,851.1	90.0	0.63
HYE5E6		3,789.2	89.8	0.55	3,716.8	-44.3	-0.31
J2WPZZ		3,708.8	9.4	0.06	3,900.6	139.5	0.98

Plastics Interlaboratory Testing Program

Analysis 705

Tensile Stress at Break - psi

WebCode	Data Flag	Sample F71			Sample F72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
JGDF4U		3,457.6	-241.8	-1.48	3,725.6	-35.5	-0.25
JHGH7T		3,486.4	-213.0	-1.30	3,536.2	-224.9	-1.58
JPKW48		3,539.0	-160.4	-0.98	3,480.9	-280.2	-1.97
JZRJNU		3,837.7	138.3	0.84	3,903.2	142.1	1.00
K1D11U		3,679.0	-20.4	-0.12	3,737.0	-24.1	-0.17
K2EFLC	X	10,404.0	6,704.6	40.92	3,774.0	12.9	0.09
K71QVN		3,368.4	-331.0	-2.02	3,493.2	-267.9	-1.88
KSXFMW		3,399.4	-300.0	-1.83	3,492.8	-268.3	-1.88
LBXM8L	*	3,863.6	164.2	1.00	4,115.0	353.9	2.48
MDGFLV		3,521.5	-177.9	-1.09	3,747.8	-13.3	-0.09
MU81V8		3,794.8	95.4	0.58	3,963.2	202.1	1.42
NWNXJY	X	3,184.8	-514.6	-3.14	3,250.8	-510.3	-3.58
PJ29FX		3,644.0	-55.4	-0.34	3,770.0	8.9	0.06
QGDQBK		3,386.8	-312.6	-1.91	3,681.0	-80.1	-0.56
QKZRHM		3,756.2	56.8	0.35	3,670.8	-90.3	-0.63
QP7VWM		3,474.3	-225.1	-1.37	3,473.7	-287.4	-2.02
QW8WLE	*	3,290.0	-409.4	-2.50	3,538.0	-223.1	-1.56
R8FQ86		3,910.2	210.8	1.29	3,964.6	203.5	1.43
S5CSBQ		3,741.7	42.3	0.26	3,743.5	-17.7	-0.12
SDLBQV		3,742.0	42.6	0.26	3,730.4	-30.7	-0.22
SEFWDD	*	4,079.4	380.0	2.32	4,131.4	370.3	2.60
SNEZYB		3,793.8	94.4	0.58	3,755.4	-5.7	-0.04
T6RGS9		3,638.7	-60.7	-0.37	3,719.9	-41.2	-0.29
UN1V92		3,839.2	139.8	0.85	3,684.2	-76.9	-0.54
UVSYZL		3,618.1	-81.3	-0.50	3,752.7	-8.4	-0.06
UXZN7J		3,905.8	206.4	1.26	3,903.8	142.7	1.00
V9BXX6		3,743.2	43.8	0.27	3,881.8	120.7	0.85
VKQSMY		3,783.8	84.4	0.52	3,800.0	38.9	0.27
VL5TQ8		3,568.0	-131.4	-0.80	3,574.0	-187.1	-1.31
WQZVER		3,733.1	33.7	0.21	3,775.4	14.3	0.10
WZ8V61		4,072.0	372.6	2.27	3,914.3	153.1	1.07
X27P2J		3,838.6	139.2	0.85	3,711.4	-49.7	-0.35

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

WebCode	Data Flag	Sample F71			Sample F72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
XJYTYX		3,582.4	-117.0	-0.71	3,688.3	-72.8	-0.51
Z1UJ85		3,781.5	82.1	0.50	3,810.2	49.1	0.34
Z6FMS3		3,849.4	150.0	0.92	3,718.0	-43.1	-0.30

Summary Statistics

Grand Means

3,699.40 psi

3,761.11 psi

Std Dev Btwn Labs

163.83 psi

142.57 psi

Statistics based on 65 of 67 reporting participants

Sample F71: HIPS & Sample F72: HIPS

Comments on assigned Data Flags for Test #705

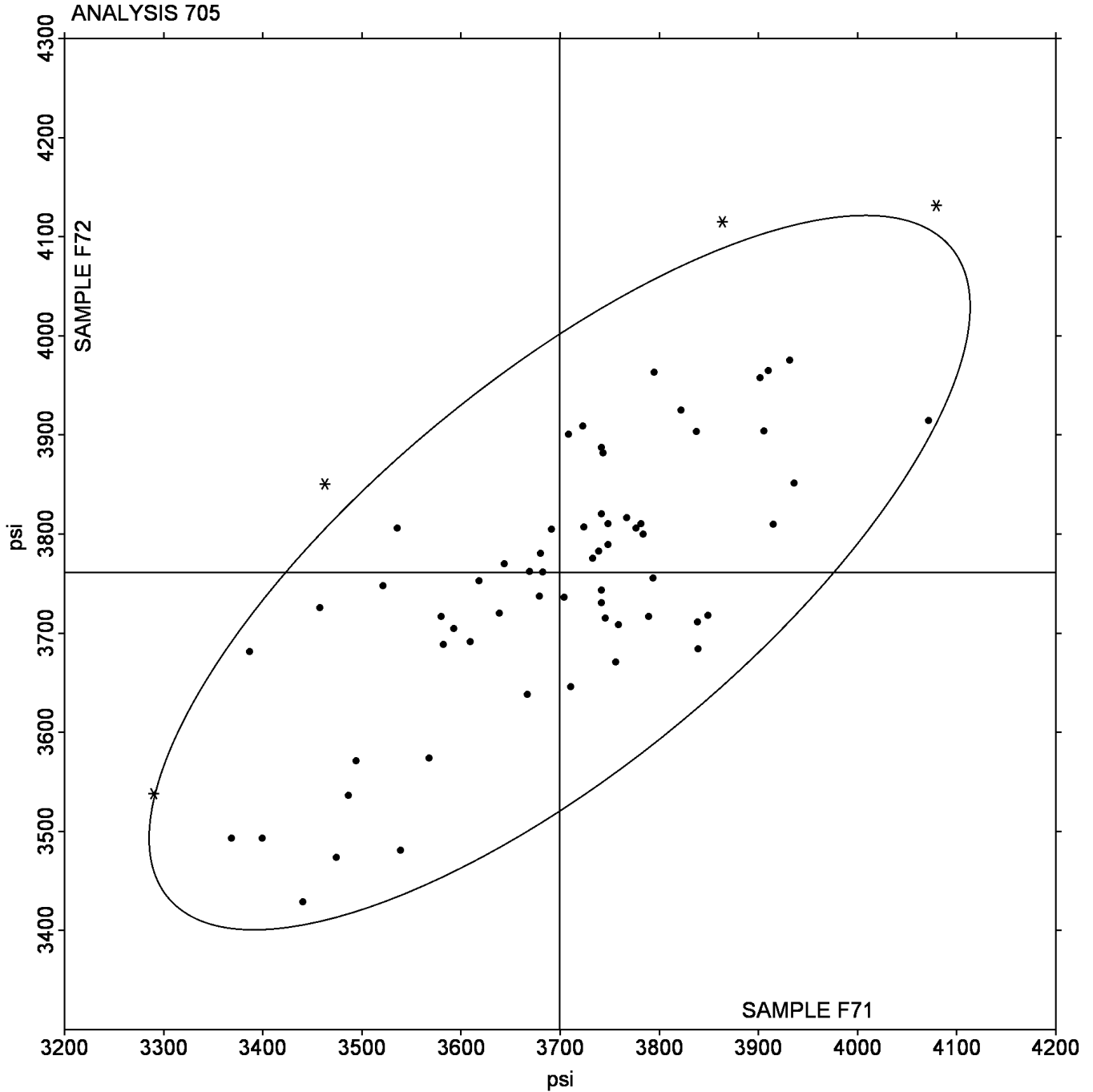
K2EFLC (X) - Inconsistent in testing between samples. Extreme data for Sample F71.

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

Analysis 705

Tensile Stress at Break - psi

Grand Mean Sample F71: 3,699.40 psi Grand Mean Sample F72: 3,761.11 psi



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

Analysis 706

Percent Elongation at Yield - Percent

WebCode	Data Flag	Sample F71			Sample F72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
241KVY	*	1.154	-0.445	-3.04	1.151	-0.463	-3.19
28NX3G		1.636	0.037	0.25	1.624	0.010	0.07
2AYNUY		1.556	-0.043	-0.29	1.570	-0.044	-0.30
2KC11H		1.632	0.033	0.23	1.608	-0.006	-0.04
4P4QWD		1.614	0.015	0.10	1.638	0.024	0.17
4QHNF9		1.340	-0.259	-1.77	1.400	-0.214	-1.47
4URB9C		1.552	-0.047	-0.32	1.620	0.006	0.04
5LDHYG	X	5.172	3.573	24.44	4.934	3.320	22.85
6QJ8AG		1.674	0.075	0.51	1.708	0.094	0.65
7CYW4P		1.600	0.001	0.01	1.542	-0.072	-0.49
7Z9BPG		1.616	0.017	0.12	1.750	0.136	0.94
93GTL9	X	5.698	4.099	28.04	5.676	4.062	27.96
98Y9JZ		1.678	0.079	0.54	1.802	0.188	1.30
9WFFL6		1.906	0.307	2.10	1.856	0.242	1.67
BAWUEH		1.688	0.089	0.61	1.600	-0.014	-0.09
BDZBK5		1.374	-0.225	-1.54	1.369	-0.245	-1.69
BJFJNX		1.648	0.049	0.34	1.688	0.074	0.51
BQH3Z		1.620	0.021	0.14	1.680	0.066	0.46
C79H9K		1.646	0.047	0.32	1.648	0.034	0.24
ED9494		1.656	0.057	0.39	1.668	0.054	0.37
EQRCZR		1.722	0.123	0.84	1.635	0.021	0.15
F88PR7		1.600	0.001	0.01	1.560	-0.054	-0.37
FKGE7X		1.590	-0.009	-0.06	1.604	-0.010	-0.07
GQUCWV		1.586	-0.013	-0.09	1.674	0.060	0.41
H2J1DV		1.690	0.091	0.62	1.732	0.118	0.81
HJGLFP		1.650	0.051	0.35	1.576	-0.038	-0.26
HLNF62		1.414	-0.185	-1.26	1.486	-0.128	-0.88
HM9GTA		1.694	0.095	0.65	1.676	0.062	0.43
HMQM4U	*	1.740	0.141	0.97	1.606	-0.008	-0.05
JJTMTA		1.684	0.085	0.58	1.704	0.090	0.62
JNA9YL		1.710	0.111	0.76	1.766	0.152	1.05
JQ4YJ3		1.546	-0.053	-0.36	1.592	-0.022	-0.15

Plastics Interlaboratory Testing Program

Analysis 706

Percent Elongation at Yield - Percent

WebCode	Data Flag	Sample F71			Sample F72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
K1B1RY	X	40.400	38.801	265.43	43.200	41.586	286.21
K5UV5C		1.432	-0.167	-1.14	1.550	-0.064	-0.44
MHVCRW		1.632	0.033	0.23	1.700	0.086	0.59
MSZQ3D		1.650	0.051	0.35	1.622	0.008	0.06
NVG827		1.500	-0.099	-0.68	1.500	-0.114	-0.78
NW3WLF		1.233	-0.366	-2.50	1.260	-0.354	-2.43
NXKQYW		1.904	0.305	2.09	1.928	0.314	2.16
QD5K GK	X	4.740	3.141	21.49	4.600	2.986	20.55
QLTQKS		1.251	-0.348	-2.38	1.248	-0.366	-2.52
QTJ9DD		1.622	0.023	0.16	1.618	0.004	0.03
QTJ9QZ	X	3.308	1.709	11.69	3.370	1.756	12.09
RDZMJU		1.483	-0.116	-0.79	1.464	-0.150	-1.03
RUBMNC		1.754	0.155	1.06	1.736	0.122	0.84
TZ55G8		1.830	0.231	1.58	1.842	0.228	1.57
VKA56A		1.656	0.057	0.39	1.612	-0.002	-0.01
VUVRJE		1.740	0.141	0.97	1.794	0.180	1.24
WBHLE2	X	2.042	0.443	3.03	1.794	0.180	1.24
WCBX72		1.522	-0.077	-0.53	1.542	-0.072	-0.49
WPR69G		1.620	0.021	0.14	1.680	0.066	0.46
WSQ66K		1.490	-0.109	-0.74	1.628	0.014	0.10
X13SAE		1.588	-0.011	-0.07	1.602	-0.012	-0.08
XFC69R		1.446	-0.153	-1.05	1.444	-0.170	-1.17
XRNT2Q		1.606	0.007	0.05	1.626	0.012	0.08
Y9LNHF		1.610	0.011	0.08	1.686	0.072	0.50
YYWSST		1.644	0.045	0.31	1.696	0.082	0.57
ZDM26J		1.656	0.057	0.39	1.564	-0.050	-0.34
ZMGHWT		1.654	0.055	0.38	1.656	0.042	0.29

Analysis 706

Percent Elongation at Yield - Percent

Summary Statistics

Grand Means

1.5988 Percent

1.6138 Percent

Std Dev Btwn Labs

0.1462 Percent

0.1453 Percent

Statistics based on 53 of 59 reporting participants

Sample F71: HIPS & Sample F72: HIPS

Comments on assigned Data Flags for Test #706

5LDHYG (X) - Data for both samples are high.

93GTL9 (X) - Data for both samples are high.

K1B1RY (X) - Extreme data.

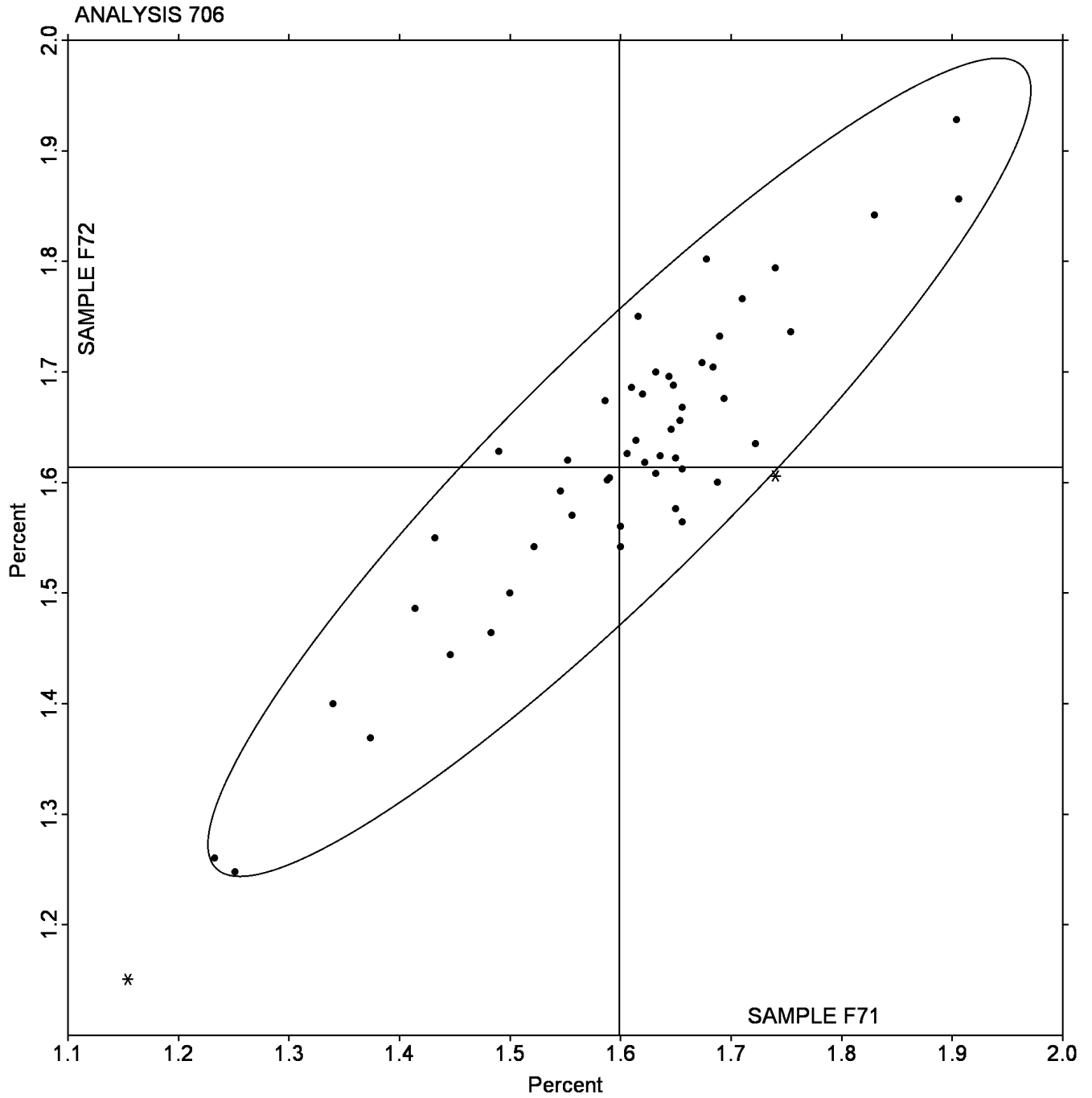
QD5KGK (X) - Data for both samples are high.

QTJ9QZ (X) - Data for both samples are high.

WBHLE2 (X) - Inconsistent in testing between samples, data for Sample F71 are high.

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

Grand Mean Sample F71: 1.5988 Percent Grand Mean Sample F72: 1.6138 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 F71			Sample F72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1X23YV		332.30	-3.51	-0.22	330.44	-6.38	-0.41
2D6E46		339.24	3.43	0.22	317.14	-19.68	-1.26
2EKYWF		328.49	-7.32	-0.47	330.86	-5.96	-0.38
3H1NSC		345.80	9.99	0.64	338.60	1.78	0.11
41VXHF	X	88.60	-247.21	-15.80	88.30	-248.52	-15.89
458VU9		322.25	-13.56	-0.87	323.81	-13.01	-0.83
48WRSF		309.30	-26.51	-1.69	315.04	-21.78	-1.39
5ZCW6J	*	378.00	42.19	2.70	364.00	27.18	1.74
7QLKZ3		317.01	-18.80	-1.20	321.70	-15.12	-0.97
86YR3K	*	296.48	-39.33	-2.51	286.29	-50.54	-3.23
8EN1B9		333.95	-1.86	-0.12	340.78	3.96	0.25
8THN4V		342.94	7.13	0.46	362.60	25.78	1.65
9QPN36		341.33	5.53	0.35	344.82	7.99	0.51
AU1ZND		339.70	3.89	0.25	333.44	-3.38	-0.22
B17AQB		343.30	7.49	0.48	348.46	11.64	0.74
BP8R14	X	264.60	-71.21	-4.55	274.40	-62.42	-3.99
CFLSJZ		314.24	-21.57	-1.38	312.94	-23.88	-1.53
CZQQA6		315.40	-20.41	-1.30	320.80	-16.02	-1.02
D5UNL6	X	138.80	-197.01	-12.59	130.71	-206.11	-13.18
DFDP5R		351.60	15.79	1.01	357.22	20.40	1.30
EHMG1Y		357.20	21.40	1.37	338.00	1.18	0.08
ES9774		342.12	6.31	0.40	331.06	-5.76	-0.37
ETY3RK	*	311.32	-24.49	-1.57	342.54	5.72	0.37
EX89XR		332.20	-3.61	-0.23	332.46	-4.37	-0.28
GF7D47		332.46	-3.35	-0.21	331.65	-5.18	-0.33
GLNKDB		326.44	-9.37	-0.60	325.46	-11.36	-0.73
HMUX8D		325.06	-10.75	-0.69	325.96	-10.86	-0.69
HV861L		335.78	-0.03	0.00	335.40	-1.42	-0.09
J2KUT1		350.38	14.57	0.93	342.31	5.49	0.35
JBBLNT		334.06	-1.75	-0.11	341.18	4.36	0.28
M631QZ		341.22	5.41	0.35	350.79	13.97	0.89
MSGX67		323.87	-11.94	-0.76	321.75	-15.07	-0.96

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

WebCode	Data Flag	Sample F71			Sample F72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
MY9V6W		343.67	7.86	0.50	345.35	8.53	0.55
Q42VS9	X	511.64	175.83	11.24	512.24	175.42	11.22
Q5DXS9		338.96	3.15	0.20	335.92	-0.90	-0.06
RMJ5J2	X	393.48	57.67	3.69	403.57	66.75	4.27
RNGEQR		327.80	-8.01	-0.51	350.39	13.56	0.87
SEQ6RL		342.69	6.88	0.44	345.14	8.31	0.53
SGLKVP		331.02	-4.79	-0.31	337.24	0.42	0.03
STHG64		336.60	0.79	0.05	333.40	-3.42	-0.22
TF25WD		345.40	9.59	0.61	351.38	14.56	0.93
UGWFJN		346.04	10.23	0.65	346.60	9.78	0.63
V9FM1H		344.62	8.81	0.56	347.18	10.36	0.66
VMDD79	X	356.45	20.64	1.32	449.04	112.22	7.18
W32214		371.76	35.95	2.30	374.36	37.54	2.40
W9BMB2		324.19	-11.62	-0.74	327.41	-9.41	-0.60
WBF7N		355.17	19.36	1.24	349.92	13.10	0.84
Y889WR	X	162.76	-173.05	-11.06	162.92	-173.91	-11.12
Y8B9XX		332.60	-3.21	-0.21	334.80	-2.02	-0.13

Summary Statistics	
Grand Means	335.809 ksi 336.824 ksi
Std Dev Btwn Labs	15.646 ksi 15.637 ksi
Statistics based on 42 of 49 reporting participants	

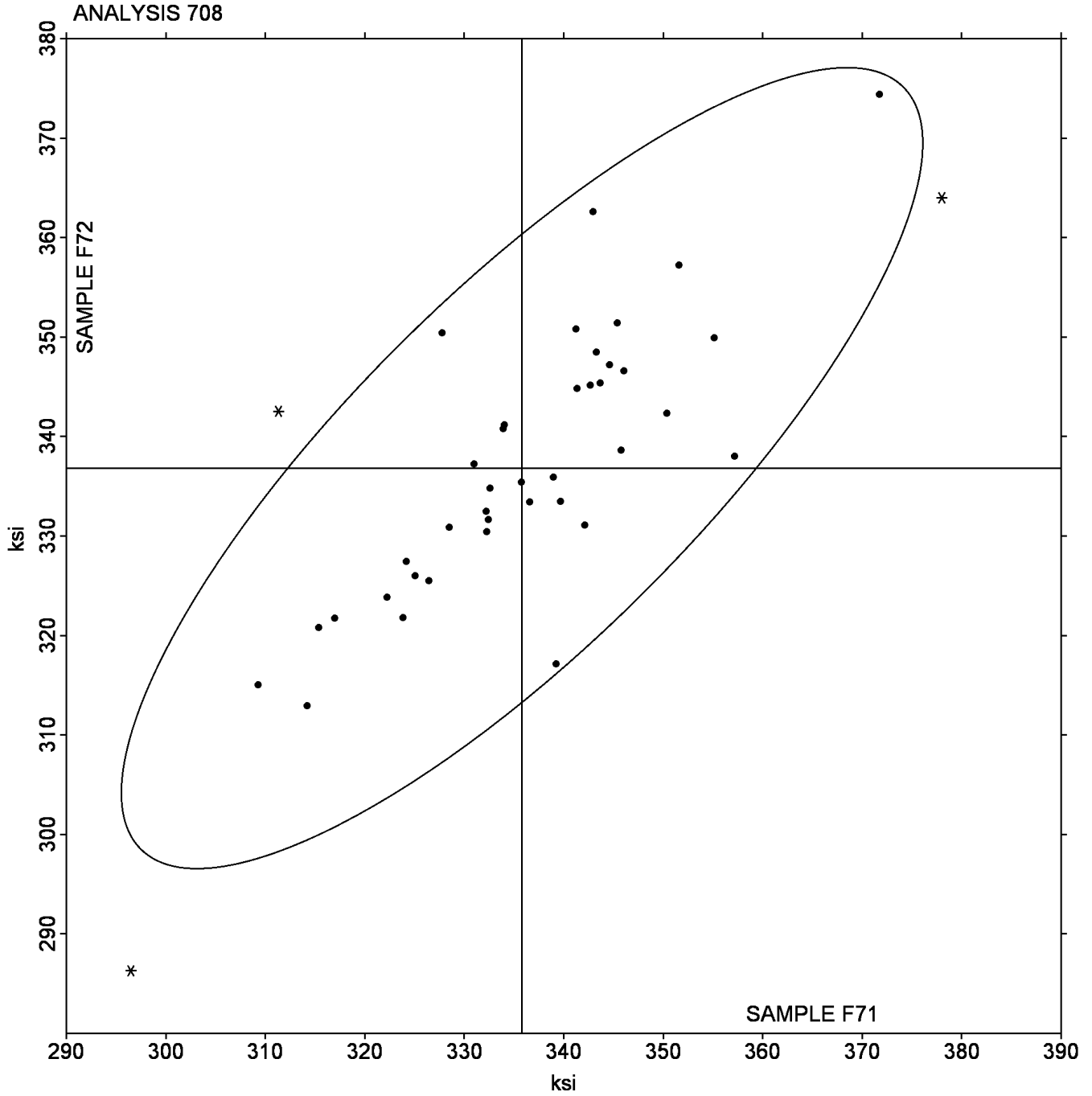
Sample F71: HIPS & Sample F72: HIPS

Comments on assigned Data Flags for Test #708

- 41VXHF (X) - Extreme data.
- BP8R14 (X) - Data for both samples are low.
- D5UNL6 (X) - Data for both samples are low.
- Q42VS9 (X) - Data for both samples are high.
- RMJ5J2 (X) - Data for both samples are high.
- VMDD79 (X) - Inconsistent in testing between samples, data for Sample F72 are high.
- Y889WR (X) - Data for both samples are low.

Plastics Interlaboratory Testing Program
Analysis 708
Modulus of Elasticity - ksi

Grand Mean Sample F71: 335.81 ksi Grand Mean Sample F72: 336.82 ksi



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

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

WebCode	Data Flag	Sample C71			Sample C72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
16GAUJ		49.37	0.97	1.03	48.78	0.55	0.60
1P95GG		49.12	0.72	0.77	49.00	0.76	0.84
3Z232Y		49.53	1.13	1.20	49.94	1.70	1.88
4CK43X		47.24	-1.15	-1.23	47.60	-0.63	-0.70
4SERAB		48.20	-0.20	-0.21	48.06	-0.18	-0.20
54HVZX		49.14	0.75	0.79	48.93	0.69	0.76
55SH3Y		46.83	-1.57	-1.68	46.97	-1.27	-1.40
5KUV51		48.45	0.05	0.06	48.35	0.11	0.12
5MCZE6		47.71	-0.69	-0.73	47.59	-0.65	-0.72
6NW2CK		49.55	1.15	1.23	49.13	0.89	0.99
6ZXCWT		48.77	0.37	0.40	47.87	-0.37	-0.40
7TTZM2		49.08	0.68	0.73	49.02	0.78	0.86
8YAK28		48.63	0.23	0.24	48.82	0.59	0.65
9KF9Q2		48.12	-0.28	-0.30	48.12	-0.11	-0.12
9QCFEA	*	48.60	0.20	0.21	47.32	-0.91	-1.01
BB31BX		47.90	-0.49	-0.53	47.79	-0.45	-0.49
CC4ZJA		46.92	-1.48	-1.57	46.96	-1.28	-1.41
CZA7R8		47.96	-0.43	-0.46	47.12	-1.11	-1.23
DMMW2N		46.94	-1.46	-1.55	46.90	-1.34	-1.47
DNJSNJ		47.47	-0.93	-0.99	47.19	-1.05	-1.16
EMUPZW		48.66	0.26	0.28	48.92	0.68	0.75
EZ79JA		48.90	0.51	0.54	48.87	0.63	0.70
FJ6YA5		49.05	0.65	0.69	49.50	1.26	1.39
FQXQS5		49.39	1.00	1.06	48.95	0.72	0.79
GUNYHB		47.81	-0.59	-0.63	47.63	-0.60	-0.67
HFFKPS		48.02	-0.38	-0.40	48.02	-0.22	-0.24
J5VGYJ		49.97	1.57	1.68	48.95	0.72	0.79
K69497		48.37	-0.03	-0.03	48.11	-0.13	-0.14
KHW1RQ		49.32	0.93	0.99	49.24	1.00	1.10
KP3QQB		47.11	-1.29	-1.38	47.38	-0.86	-0.95
L5D337		47.55	-0.85	-0.90	47.28	-0.96	-1.06
L6AACC	*	45.95	-2.44	-2.61	46.18	-2.05	-2.26

Analysis 730
Tensile Stress at Yield - MPa

WebCode	Data Flag	Sample C71			Sample C72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
LJE6CL		48.73	0.34	0.36	48.58	0.35	0.38
LR4JVM		48.48	0.08	0.09	48.92	0.68	0.75
MPZFBH		49.63	1.23	1.31	49.84	1.60	1.76
MR9FFP		49.02	0.62	0.66	48.68	0.44	0.49
NHE5SU		48.50	0.10	0.11	48.50	0.26	0.29
NPXS6W		48.58	0.18	0.19	48.61	0.38	0.41
NTCM8H		49.41	1.01	1.08	49.42	1.18	1.30
PHNLE6		48.60	0.20	0.22	47.90	-0.33	-0.37
Q8Q4G3		49.69	1.30	1.38	49.71	1.48	1.63
R5A9R3		47.54	-0.86	-0.91	47.73	-0.50	-0.55
R89KPN		48.92	0.52	0.55	48.65	0.41	0.45
RVP99X		50.02	1.62	1.73	49.72	1.48	1.64
SVV1D6		48.78	0.38	0.40	48.13	-0.10	-0.12
TC47G2		47.81	-0.59	-0.63	47.20	-1.04	-1.15
THTRKH		47.96	-0.44	-0.47	47.85	-0.39	-0.43
U6ZJQM	*	49.02	0.62	0.66	47.69	-0.54	-0.60
UTUX9V	*	46.36	-2.04	-2.18	47.12	-1.12	-1.23
V6CWSG		49.74	1.35	1.44	49.41	1.17	1.29
W4E5V3		48.02	-0.38	-0.40	48.60	0.36	0.40
X2PKNR	X	49.31	0.92	0.98	47.27	-0.97	-1.07
YHD35Y		47.69	-0.71	-0.76	47.22	-1.02	-1.12
YTXVST		47.40	-1.00	-1.06	46.78	-1.46	-1.61
ZECVEZ		47.92	-0.48	-0.51	48.03	-0.20	-0.23

Summary Statistics	
Grand Means	48.397 MPa
Std Dev Btwn Labs	0.938 MPa
	48.237 MPa
	0.907 MPa
Statistics based on 54 of 55 reporting participants	

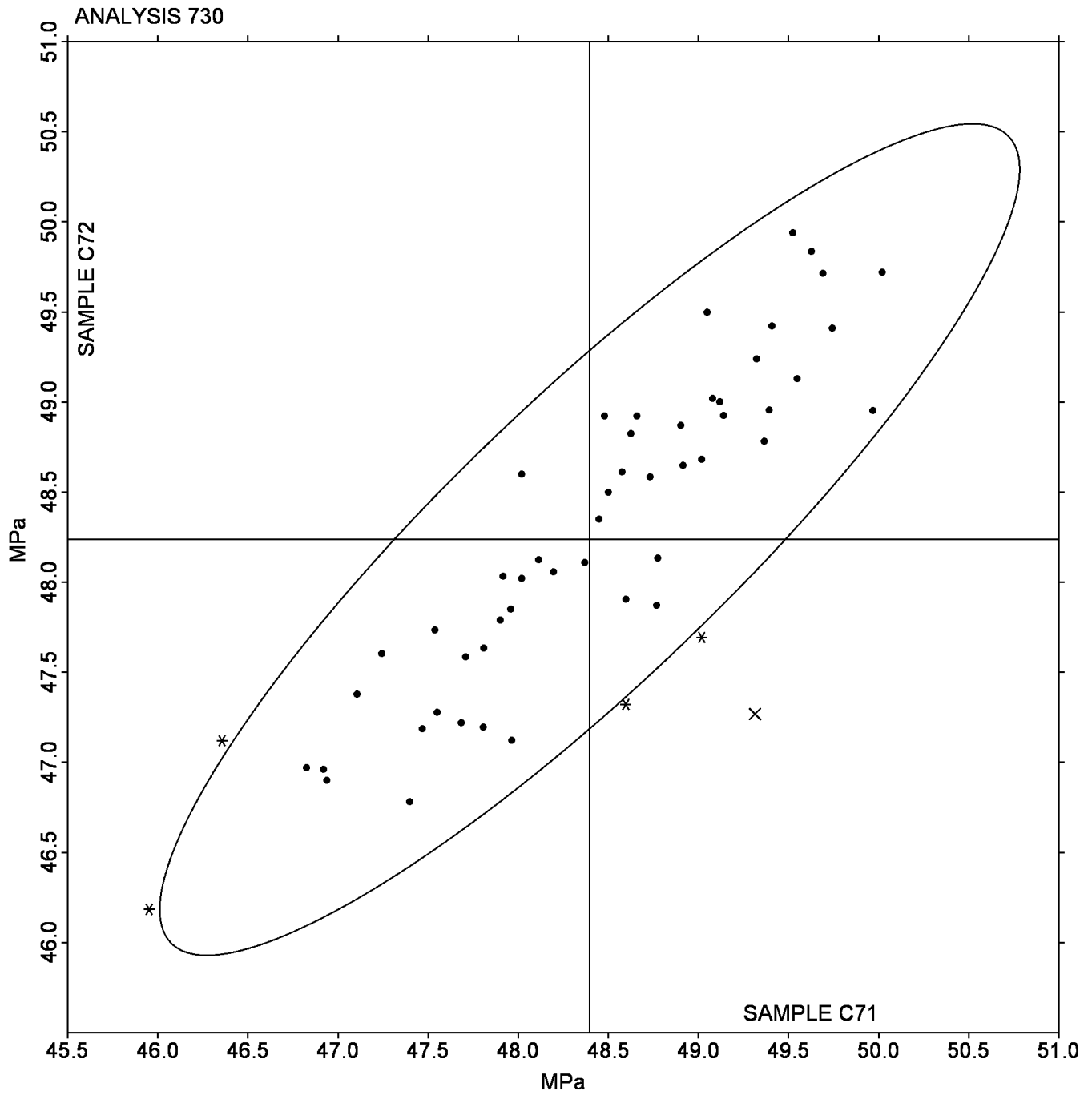
Sample C71: ABS & Sample C72: ABS

Comments on assigned Data Flags for Test #730

X2PKNR (X) - Inconsistent in testing between samples and inconsistent in testing within Sample C71.

Analysis 730
Tensile Stress at Yield - MPa

Grand Mean Sample C71: 48.397 MPa Grand Mean Sample C72: 48.237 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 C71			Sample C72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
38Y3WD		38.90	3.53	1.90	38.72	3.51	1.93
3JEY24		33.77	-1.60	-0.86	34.06	-1.15	-0.63
4KZUM4		34.28	-1.09	-0.59	34.70	-0.51	-0.28
4QX2TL		38.83	3.46	1.86	36.61	1.40	0.77
57RGTA		35.80	0.43	0.23	35.17	-0.04	-0.02
5M7XZZ		35.16	-0.21	-0.11	33.64	-1.58	-0.87
5UUVET		37.51	2.14	1.15	35.19	-0.02	-0.01
64VSQ9		35.44	0.07	0.04	35.99	0.78	0.43
6CMCPF		34.16	-1.21	-0.65	34.36	-0.85	-0.47
73FVLG	*	40.08	4.70	2.53	40.10	4.89	2.70
7ASXSQ		35.34	-0.03	-0.02	33.86	-1.35	-0.75
7FLWEL		36.73	1.36	0.73	36.34	1.13	0.62
7Z89NV		35.11	-0.26	-0.14	34.97	-0.24	-0.13
82ARKK		37.33	1.96	1.05	38.50	3.28	1.81
8NRGLM		34.32	-1.05	-0.57	34.22	-0.99	-0.55
8Y83PV		33.91	-1.46	-0.79	35.20	-0.02	-0.01
9ET5SC		34.65	-0.72	-0.39	34.89	-0.33	-0.18
9K8TW3		34.60	-0.77	-0.41	33.44	-1.77	-0.98
AMQ8M2		35.24	-0.13	-0.07	34.86	-0.35	-0.19
CD7JYC	X	41.62	6.25	3.36	36.86	1.64	0.91
DNHV4N		34.27	-1.10	-0.59	33.69	-1.52	-0.84
E43WF5		34.14	-1.24	-0.66	35.26	0.05	0.03
FB8EWF	X	46.57	11.20	6.02	45.75	10.53	5.81
G954XE		38.87	3.50	1.88	37.78	2.56	1.41
GGMN64		35.20	-0.17	-0.09	35.19	-0.02	-0.01
GZ19MM		36.75	1.38	0.74	37.23	2.02	1.11
H9HJZZ		33.94	-1.43	-0.77	34.34	-0.88	-0.48
HTFWTK		39.31	3.94	2.12	39.14	3.93	2.17
J1M58Y		34.80	-0.57	-0.31	36.88	1.67	0.92
JYTRRT		34.66	-0.71	-0.38	34.97	-0.25	-0.14
K6NQLU		34.45	-0.92	-0.50	34.29	-0.92	-0.51
KHQ1FP		38.98	3.61	1.94	38.30	3.09	1.70

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

WebCode	Data Flag	Sample C71			Sample C72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
KU1VW1		34.34	-1.03	-0.55	33.86	-1.36	-0.75
MHYDUN		34.60	-0.77	-0.42	34.08	-1.13	-0.62
NAW5SN		33.86	-1.52	-0.81	33.25	-1.97	-1.08
NFKPYJ		34.00	-1.38	-0.74	34.08	-1.14	-0.63
QYBSWJ		33.63	-1.74	-0.93	33.60	-1.61	-0.89
R84YQF		35.62	0.25	0.14	35.57	0.35	0.20
RJWGUV		35.30	-0.07	-0.04	33.52	-1.70	-0.94
RWQAMX	*	34.40	-0.97	-0.52	37.08	1.87	1.03
XGGW1F		34.26	-1.11	-0.60	34.46	-0.75	-0.42
Y43CQY		32.96	-2.41	-1.29	33.49	-1.72	-0.95
YHH2G1		33.19	-2.19	-1.17	33.64	-1.57	-0.87
YKMT6S		33.44	-1.93	-1.04	33.04	-2.17	-1.20
ZFVSAY		36.20	0.83	0.44	35.27	0.06	0.03
ZJG5HG		32.51	-2.86	-1.54	31.79	-3.42	-1.89
ZPCLXM		36.87	1.49	0.80	35.98	0.77	0.43

Summary Statistics

Grand Means

35.372 MPa

35.213 MPa

Std Dev Btwn Labs

1.861 MPa

1.813 MPa

Statistics based on 45 of 47 reporting participants

Sample C71: ABS & Sample C72: ABS

Comments on assigned Data Flags for Test #731

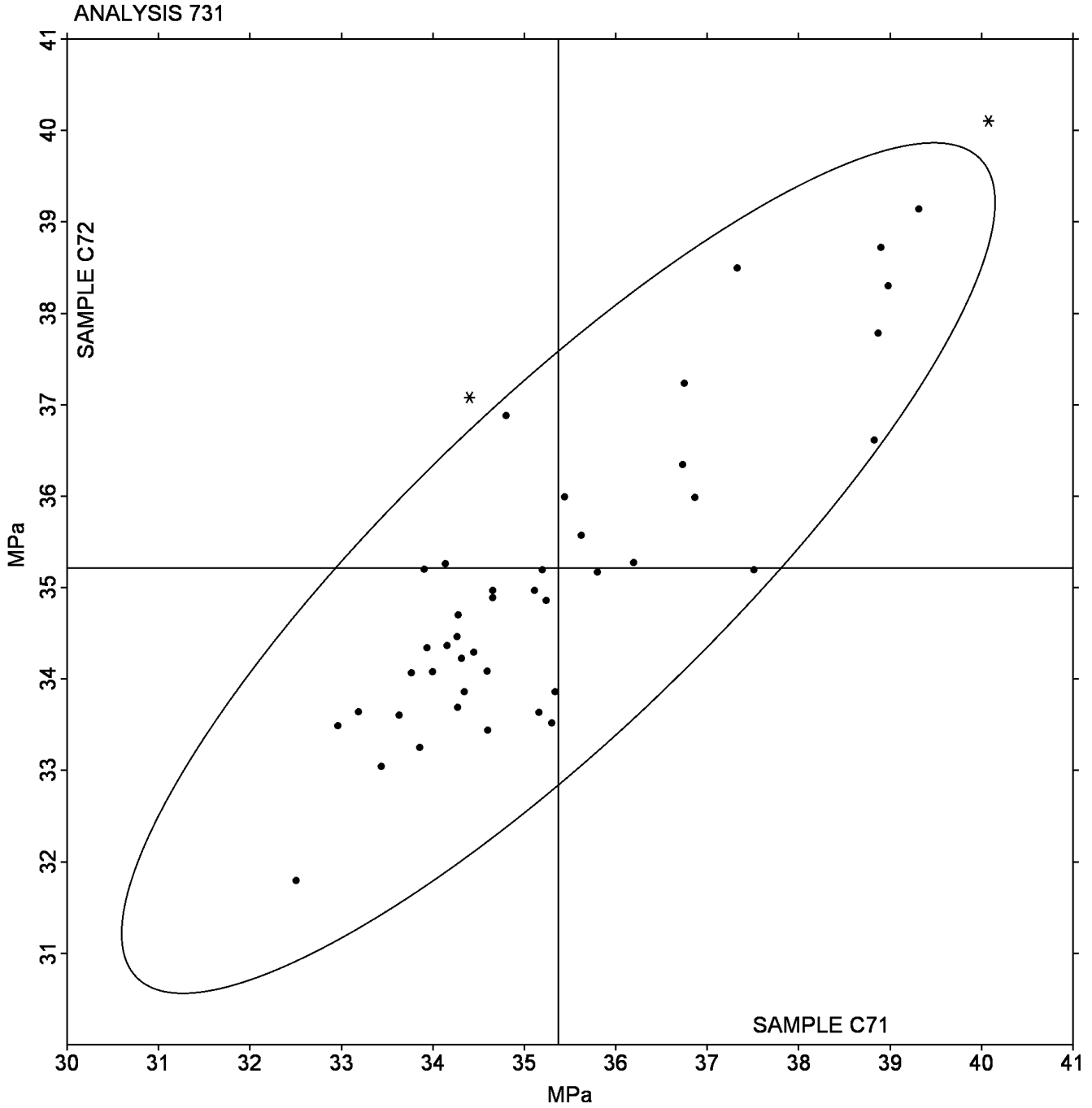
CD7JYC (X) - Inconsistent in testing between samples, data for Sample C71 are high. Also inconsistent in testing within Sample C71.

FB8EWF (X) - Data for both samples are high.

Analysis 731

Tensile Stress at Break - MPa

Grand Mean Sample C71: 35.372 MPa Grand Mean Sample C72: 35.213 MPa



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

Analysis 732
 Percent Strain at Yield

WebCode	Data Flag	Sample C71			Sample C72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
14QRVL		2.636	-0.024	-0.24	2.600	-0.050	-0.45
1MCFP1	X	2.430	-0.230	-2.31	2.576	-0.074	-0.66
22VCYV		2.600	-0.060	-0.60	2.640	-0.010	-0.09
2778PR		2.520	-0.140	-1.41	2.482	-0.168	-1.51
2QMF6E		2.782	0.122	1.22	2.766	0.116	1.05
3LHFW7		2.710	0.050	0.50	2.734	0.084	0.76
3P73SM	X	2.078	-0.582	-5.84	2.086	-0.564	-5.08
59EZQ2		2.600	-0.060	-0.60	2.606	-0.044	-0.39
5ETMT6		2.806	0.146	1.46	2.804	0.154	1.39
5KG7WM		2.670	0.010	0.10	2.637	-0.012	-0.11
5Y9LH3	*	2.400	-0.260	-2.61	2.400	-0.250	-2.25
6ZA5P9		2.680	0.020	0.20	2.640	-0.010	-0.09
7XC2B1		2.614	-0.046	-0.46	2.644	-0.006	-0.05
8ZL5PW		2.708	0.048	0.48	2.722	0.072	0.65
9LLGCU		2.732	0.072	0.72	2.736	0.086	0.78
9RGKQE		2.704	0.044	0.44	2.654	0.004	0.04
CDAMS9		2.566	-0.094	-0.94	2.500	-0.150	-1.35
DMZJ6X		2.620	-0.040	-0.40	2.600	-0.050	-0.45
EV4EM1		2.720	0.060	0.60	2.714	0.064	0.58
FAFC46		2.786	0.126	1.26	2.824	0.174	1.57
FG75M6		2.732	0.072	0.72	2.716	0.066	0.60
FJKKJ6		2.760	0.100	1.00	2.738	0.088	0.79
GJ8TLN		2.704	0.044	0.44	2.724	0.074	0.67
HF6EPA		2.606	-0.054	-0.54	2.614	-0.036	-0.32
HG3NVE	X	2.876	0.216	2.16	2.730	0.080	0.72
HSJY9L		2.622	-0.038	-0.38	2.640	-0.010	-0.09
JKL8FT		2.512	-0.148	-1.48	2.521	-0.129	-1.16
JP8KWB		2.586	-0.074	-0.74	2.590	-0.060	-0.54
JWMUCY	X	7.292	4.632	46.43	7.248	4.598	41.45
KR8SD8		2.717	0.057	0.57	2.710	0.060	0.54
L8AMSZ		2.800	0.140	1.40	2.788	0.138	1.25
MAYWFB		2.754	0.094	0.94	2.734	0.084	0.76

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

WebCode	Data Flag	Sample C71			Sample C72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
MEC27Y	X	1.802	-0.858	-8.60	1.706	-0.944	-8.51
N1N65K		2.562	-0.098	-0.98	2.500	-0.150	-1.35
N23BVV		2.642	-0.018	-0.18	2.604	-0.046	-0.41
P52Y25		2.600	-0.060	-0.60	2.540	-0.110	-0.99
RGLSD4		2.626	-0.034	-0.34	2.548	-0.102	-0.92
S7DMS1	X	3.310	0.650	6.51	3.376	0.726	6.55
SSJZJN	*	2.904	0.244	2.44	2.938	0.288	2.60
T5J3HM		2.628	-0.032	-0.32	2.656	0.006	0.06
TGTPH7		2.508	-0.152	-1.53	2.478	-0.172	-1.55
WB2F54	X	3.140	0.480	4.81	3.000	0.350	3.16
WGT4X9		2.698	0.038	0.38	2.688	0.038	0.34
WPN9HC	X	4.174	1.514	15.17	4.240	1.590	14.33
YURRCJ		2.612	-0.048	-0.48	2.612	-0.038	-0.34

Summary Statistics			
Grand Means	2.6602	Percent	2.6498
			Percent
Std Dev Btwn Labs	0.0998	Percent	0.1109
			Percent
Statistics based on 37 of 45 reporting participants			

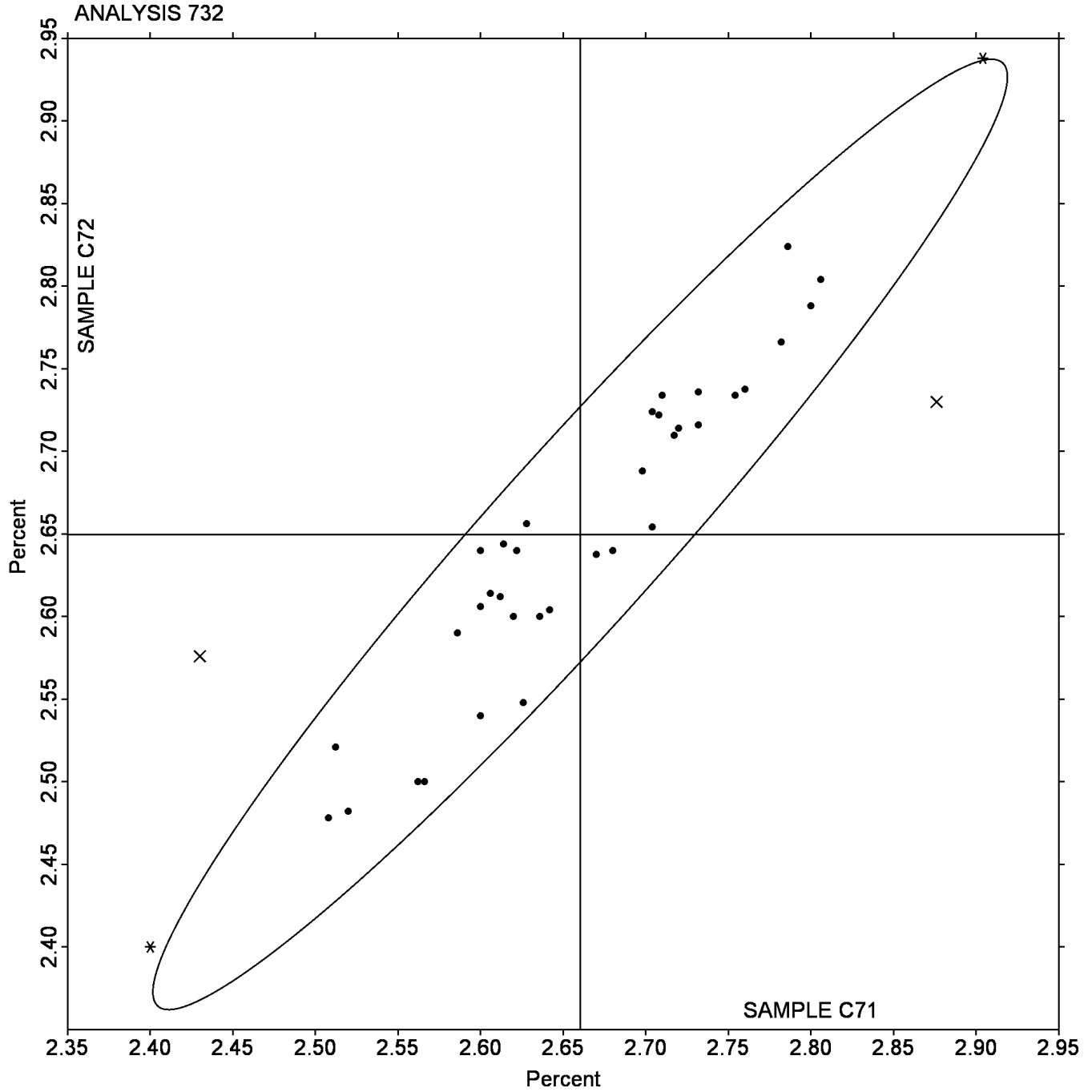
Sample C71: ABS & Sample C72: ABS

Comments on assigned Data Flags for Test #732

- 1MCFP1 (X) - Inconsistent in testing between samples.
- 3P73SM (X) - Data for both samples are low.
- HG3NYE (X) - Inconsistent in testing between samples.
- JWMUCY (X) - Data for both samples are high.
- MEC27Y (X) - Data for both samples are low. Also inconsistent in testing within both samples.
- S7DMS1 (X) - Data for both samples are high.
- WB2F54 (X) - Data for both samples are high.
- WPN9HC (X) - Data for both samples are high.

Analysis 732
Percent Strain at Yield

Grand Mean Sample C71: 2.6602 Percent Grand Mean Sample C72: 2.6498 Percent



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

Analysis 734

Modulus of Elasticity - MPa

WebCode	Data Flag	Sample C71			Sample C72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1AW6SP		2,366	-10	-0.07	2,384	16	0.11
1VWXP8		2,437	61	0.47	2,412	44	0.30
3CQZ9P	X	2,276	-99	-0.75	2,427	59	0.41
4JKYWK		2,567	191	1.45	2,606	237	1.64
57SBFM		2,389	14	0.11	2,371	3	0.02
59NZLH		2,447	72	0.54	2,487	119	0.82
5HA9LD	*	2,535	159	1.21	2,422	54	0.37
6QLGDE		2,256	-119	-0.90	2,255	-113	-0.78
8JXCY9		2,367	-8	-0.06	2,314	-54	-0.37
9CB9FR		2,353	-22	-0.17	2,360	-8	-0.05
9HL88J		2,276	-99	-0.75	2,263	-106	-0.73
9RQ216		2,137	-239	-1.80	2,088	-280	-1.94
B6C81A		2,231	-144	-1.09	2,242	-126	-0.87
BTUWUF		2,459	83	0.63	2,446	77	0.53
CTZ9NU		2,424	49	0.37	2,398	30	0.21
DPSL2B	X	1,190	-1,185	-8.97	1,176	-1,192	-8.25
EV8C1Q		2,410	34	0.26	2,407	38	0.27
FVUTXC		2,211	-165	-1.25	2,152	-216	-1.49
HNJMCL		2,271	-105	-0.79	2,250	-118	-0.82
HTC9ZZ		2,351	-24	-0.18	2,388	20	0.14
J2XS1L		2,348	-27	-0.20	2,377	9	0.06
JCFJAF	X	2,533	158	1.19	2,365	-3	-0.02
KFH5YJ		2,454	78	0.59	2,432	64	0.44
KQEWXR		2,364	-12	-0.09	2,397	28	0.20
N6YPC8		2,438	63	0.48	2,432	63	0.44
NUPTFX		2,351	-24	-0.18	2,350	-19	-0.13
P3LCZB		2,660	285	2.15	2,641	273	1.89
P7D5L8		2,333	-42	-0.32	2,323	-45	-0.31
QUHCLW		2,356	-19	-0.15	2,351	-17	-0.12
RFC8F8		2,530	154	1.17	2,584	215	1.49
UMYHWH		2,462	87	0.66	2,467	99	0.68
VL6LNF		2,391	16	0.12	2,393	24	0.17

Plastics Interlaboratory Testing Program
Analysis 734
Modulus of Elasticity - MPa

WebCode	Data Flag	Sample C71			Sample C72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
VSETGP		2,470	94	0.71	2,512	144	0.99
WA1JH2		2,389	14	0.10	2,353	-15	-0.10
WKT15A	X	2,289	-86	-0.65	2,492	123	0.85
WLXMKA		2,267	-109	-0.82	2,231	-137	-0.95
WPYRDH		2,337	-38	-0.29	2,345	-23	-0.16
XUU7UN	*	2,256	-119	-0.90	2,146	-222	-1.54
Y3ZU4U	*	1,971	-404	-3.06	1,936	-432	-2.99
YK2LAQ		2,653	277	2.10	2,621	252	1.75
ZBKL4S		2,394	19	0.14	2,474	105	0.73
ZTWS1A		2,500	125	0.94	2,505	136	0.94
ZZDGWC		2,228	-148	-1.12	2,247	-121	-0.84

Summary Statistics

Grand Means

2,375.3 MPa

2,368.3 MPa

Std Dev Btwn Labs

132.2 MPa

144.5 MPa

Statistics based on 39 of 43 reporting participants

Sample C71: ABS & Sample C72: ABS

Comments on assigned Data Flags for Test #734

3CQZ9P (X) - Inconsistent in testing between samples.

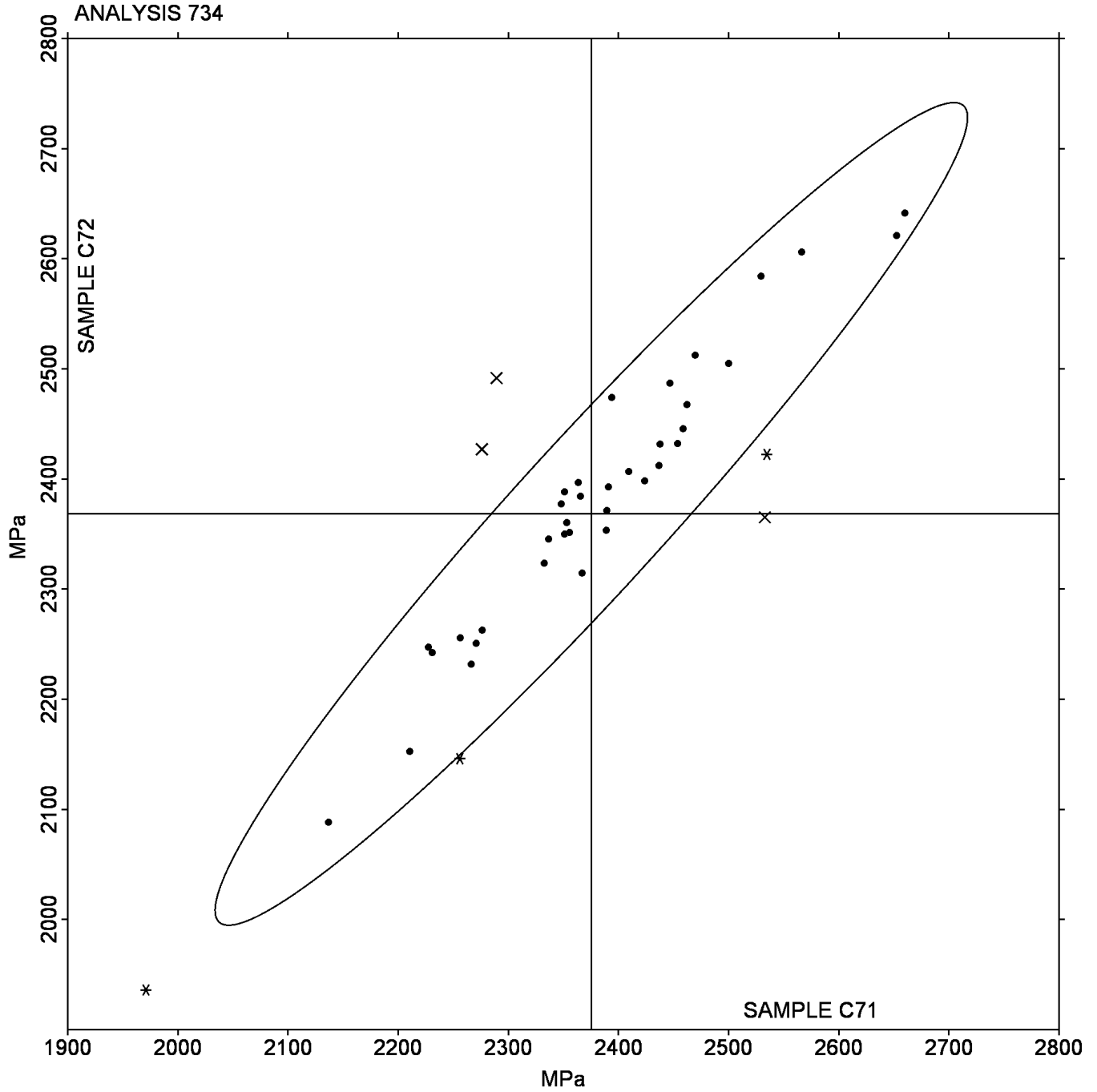
DPSL2B (X) - Low data for both samples.

JCFJAF (X) - Inconsistent in testing between samples.

WKT15A (X) - Inconsistent in testing between samples.

Analysis 734
Modulus of Elasticity - MPa

Grand Mean Sample C71: 2,375.34 MPa Grand Mean Sample C72: 2,368.30 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 J71			Sample J72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1PCF4S		388.5	-23.1	-1.34	403.5	-18.8	-1.01
1UGTSX		414.6	3.0	0.18	425.8	3.5	0.19
27XNAT		416.3	4.8	0.28	417.9	-4.4	-0.24
3H5ULU		434.2	22.6	1.31	457.2	34.9	1.88
3X4GS9		412.3	0.7	0.04	423.7	1.4	0.08
47V5SW		402.1	-9.5	-0.55	421.1	-1.2	-0.06
4CVGKU		428.2	16.7	0.97	439.4	17.1	0.92
4HDWND	*	441.0	29.4	1.71	435.6	13.3	0.72
4J9XMX		414.7	3.1	0.18	424.3	2.0	0.11
4NQW2H	X	39.6	-372.0	-21.60	39.2	-383.1	-20.66
4RZQCA	X	351.8	-59.7	-3.47	354.4	-67.9	-3.66
578W5L		413.2	1.7	0.10	420.9	-1.4	-0.07
715CNY		407.1	-4.5	-0.26	410.8	-11.5	-0.62
74QUSJ		394.3	-17.3	-1.00	402.2	-20.0	-1.08
7GSZMV		445.6	34.0	1.97	445.5	23.2	1.25
7L4E9V		420.1	8.5	0.50	429.1	6.8	0.37
7MK754		421.6	10.0	0.58	426.8	4.5	0.24
8HWQWC		394.6	-17.0	-0.99	401.1	-21.2	-1.14
8Z5DRQ		412.8	1.2	0.07	416.4	-5.9	-0.32
93CYKA		402.0	-9.6	-0.56	407.7	-14.6	-0.79
9MLXU6	*	423.4	11.8	0.69	455.2	32.9	1.78
9ZW7V3		405.3	-6.3	-0.36	419.8	-2.5	-0.13
A4CGSB		429.0	17.4	1.01	446.4	24.1	1.30
AB7LJS	X	493.8	82.2	4.77	480.3	58.1	3.13
B867M9		388.6	-23.0	-1.34	406.8	-15.4	-0.83
BUV2S8		378.4	-33.2	-1.93	382.3	-40.0	-2.16
CXN6MR		413.1	1.5	0.09	423.9	1.6	0.09
D2DMUD		395.2	-16.4	-0.95	412.6	-9.7	-0.52
DFB1LU	*	432.4	20.8	1.21	459.6	37.3	2.01
DFNLB5		398.4	-13.2	-0.76	412.6	-9.7	-0.52
EJYD63		413.3	1.7	0.10	428.2	6.0	0.32
EY5KZL		411.1	-0.5	-0.03	418.3	-3.9	-0.21

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

WebCode	Data Flag	Sample J71			Sample J72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
FWGDHN		394.8	-16.8	-0.98	402.4	-19.9	-1.07
GXQV86		408.2	-3.4	-0.20	420.9	-1.4	-0.08
H2HYEW		421.2	9.7	0.56	433.1	10.9	0.59
H3U32F		445.8	34.2	1.99	461.6	39.3	2.12
HFL5SF		404.9	-6.7	-0.39	405.4	-16.8	-0.91
HT3ZPF		435.0	23.4	1.36	448.5	26.2	1.41
HT5FU6		408.2	-3.4	-0.20	421.8	-0.5	-0.03
J8BDJH	X	55.7	-355.9	-20.67	56.3	-366.0	-19.74
JQ96WW		412.1	0.6	0.03	420.1	-2.2	-0.12
JRXEQC		382.9	-28.7	-1.67	397.3	-24.9	-1.34
JY1798		383.5	-28.1	-1.63	397.3	-25.0	-1.35
KL3J5D	X	401.7	-9.9	-0.57	386.0	-36.3	-1.96
L73T9Y		393.8	-17.8	-1.03	405.3	-17.0	-0.92
L9C9N5	*	432.8	21.2	1.23	422.8	0.5	0.03
LRA5S8		413.5	1.9	0.11	417.0	-5.3	-0.29
LUC1KP		399.8	-11.8	-0.68	408.2	-14.1	-0.76
MECJ6A	X	437,460.0	437,048.4	25,378.51	461,640.0	461,217.7	24,875.72
MUG9DG		405.6	-5.9	-0.34	421.1	-1.2	-0.06
P46TQZ	*	384.0	-27.6	-1.60	411.6	-10.7	-0.58
PUH22M		425.7	14.1	0.82	440.8	18.6	1.00
QD552K		418.6	7.0	0.41	427.0	4.7	0.25
R7KSTQ		430.4	18.8	1.09	443.5	21.2	1.14
R99216		381.3	-30.3	-1.76	381.3	-40.9	-2.21
SPURY1		406.5	-5.0	-0.29	420.6	-1.7	-0.09
TDY9DA		401.6	-10.0	-0.58	415.9	-6.4	-0.35
UBV4WG		404.4	-7.1	-0.41	402.3	-20.0	-1.08
UNF9NC		405.3	-6.3	-0.36	416.8	-5.5	-0.30
USXL71		384.3	-27.3	-1.58	388.6	-33.7	-1.82
UWR3R1		414.4	2.8	0.16	426.6	4.3	0.23
UYT2R8		437.2	25.6	1.49	456.1	33.8	1.83
V432RA		410.4	-1.2	-0.07	420.2	-2.1	-0.11
VSV1BK		415.8	4.2	0.25	424.3	2.0	0.11

Plastics Interlaboratory Testing Program
Analysis 720
Flexural Modulus- ksi

WebCode	Data Flag	Sample J71			Sample J72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
VWFAZX		395.7	-15.9	-0.92	412.9	-9.4	-0.51
WEQM5T		409.9	-1.7	-0.10	418.2	-4.1	-0.22
WKK723		421.7	10.1	0.58	424.9	2.7	0.14
WTLQ45		412.2	0.6	0.04	436.4	14.1	0.76
XK2BHF		447.4	35.8	2.08	455.0	32.8	1.77
Y7UTBY		412.7	1.1	0.07	425.0	2.7	0.15
ZAAYMK		400.5	-11.0	-0.64	404.9	-17.4	-0.94
ZV3YZ9		450.5	38.9	2.26	459.8	37.6	2.03

Summary Statistics

Grand Means

411.58 ksi

422.28 ksi

Std Dev Btwn Labs

17.22 ksi

18.54 ksi

Statistics based on 66 of 72 reporting participants

Sample J71: ABS/PC & Sample J72: ABS/PC

Comments on assigned Data Flags for Test #720

4NQW2H (X) - Extreme data. Data appear to be off by a factor of 10.

4RZQCA (X) - Data for both samples are low. Possible Systematic Error.

AB7LJS (X) - Data for both samples are high.

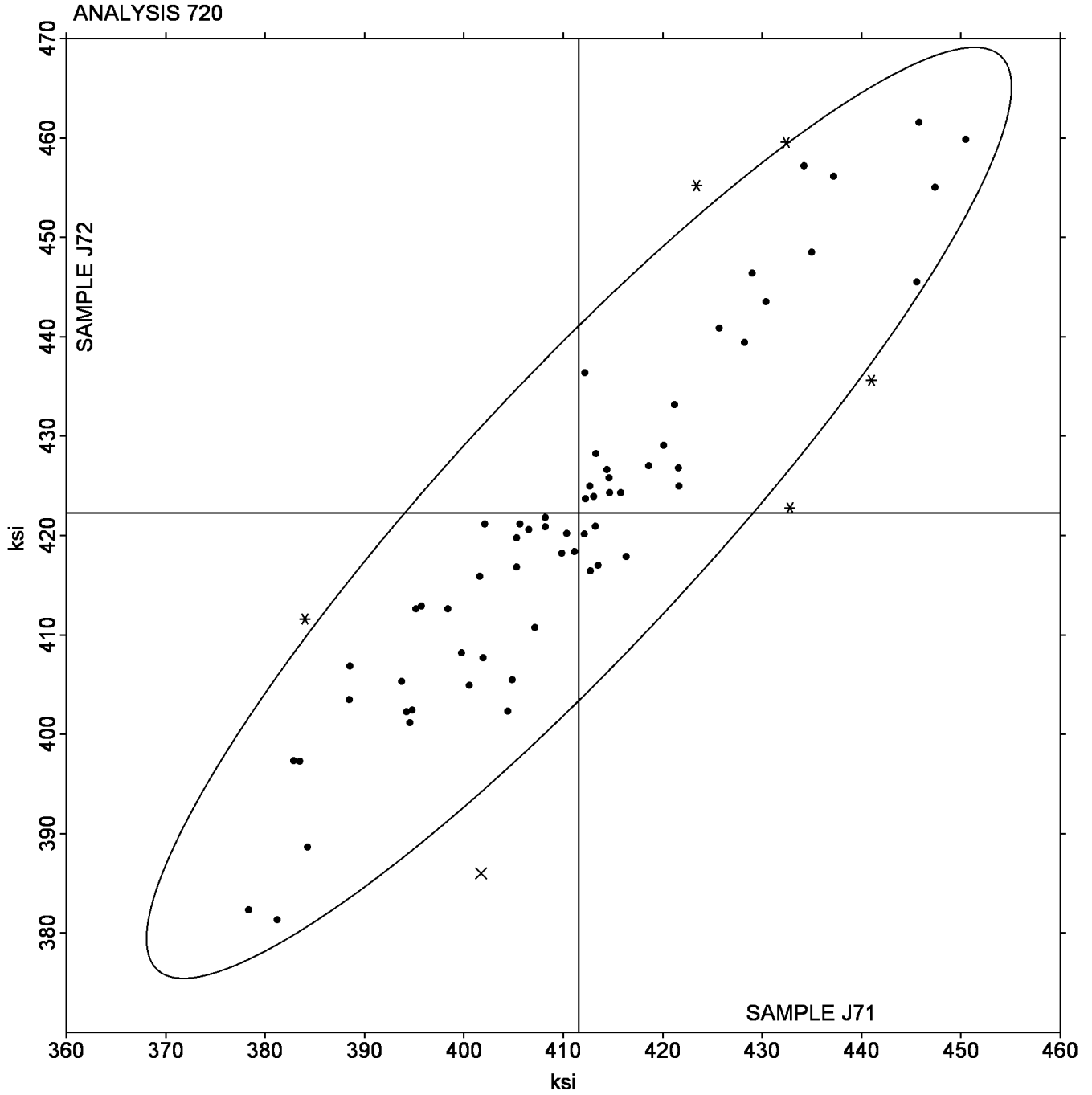
J8BDJH (X) - Extreme data. Lab indicated reporting in mPa, but data appear to be in ksi.

KL3J5D (X) - Inconsistent in testing between samples.

MECJ6A (X) - Extreme data. Lab indicated reporting in ksi, but data appear to be in psi.

Analysis 720
Flexural Modulus- ksi

Grand Mean Sample J71: 411.58 ksi Grand Mean Sample J72: 422.28 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 J71			Sample J72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1NFAWS		13,895	-639	-1.26	13,430	-626	-1.24
23YCEU		15,305	771	1.52	14,730	674	1.34
2VVHTP	X	11,464	-3,070	-6.04	12,524	-1,532	-3.04
3349U5		13,690	-843	-1.66	13,195	-861	-1.71
3B33GQ	X	14,329	-205	-0.40	14,915	859	1.71
41DXL6		14,440	-94	-0.19	13,791	-265	-0.53
4WHTMC		14,854	320	0.63	14,394	338	0.67
55LCJF		15,041	507	1.00	14,759	703	1.40
6QGFC8	X	14,000	-534	-1.05	13,000	-1,056	-2.10
6YZ91W	X	16,625	2,091	4.11	15,433	1,377	2.74
7H2M33		14,968	434	0.85	14,533	477	0.95
7QXUKH		14,028	-506	-1.00	13,569	-487	-0.97
8MJKBW		13,614	-920	-1.81	13,321	-735	-1.46
8VAXJJ		14,625	91	0.18	14,249	194	0.38
9FVKTH		14,620	86	0.17	14,118	62	0.12
9ZGX2S		14,934	400	0.79	14,318	263	0.52
ALAEK1		14,455	-79	-0.15	13,881	-174	-0.35
AMFYD3		14,553	19	0.04	14,080	24	0.05
BNWS49		14,464	-70	-0.14	13,898	-157	-0.31
CW64PR		14,496	-37	-0.07	14,072	16	0.03
DBLE36		13,905	-629	-1.24	13,591	-465	-0.92
DKANTH		14,631	98	0.19	14,182	126	0.25
DQLRJK	M	14,722	188	0.37	No data reported for this sample		
ECEL5H	*	15,019	485	0.95	14,852	796	1.58
EGYA5M		15,126	592	1.16	14,621	565	1.12
EPQLPB		14,951	417	0.82	14,502	446	0.89
FDH4JY	X	14,509	-25	-0.05	13,411	-645	-1.28
FY1Y1R		15,010	476	0.94	14,756	700	1.39
GR4EKF		14,522	-12	-0.02	13,928	-128	-0.25
GZZP46		14,868	334	0.66	14,455	400	0.79
HYFXCD		15,458	924	1.82	15,045	989	1.96
JBATNZ		15,080	546	1.07	14,516	460	0.91

Analysis 721

Flexural Stress at 5% Strain - psi

WebCode	Data Flag	Sample J71			Sample J72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
KGJVME		15,094	560	1.10	14,594	539	1.07
KRYF74	*	13,582	-952	-1.87	13,366	-690	-1.37
LCNXV9		13,759	-775	-1.52	13,389	-667	-1.33
PLSUKN		14,394	-140	-0.28	13,788	-268	-0.53
PX77YQ		15,010	476	0.94	14,416	360	0.72
QJYEHQ		14,943	409	0.80	14,331	275	0.55
R2JQDC		14,228	-306	-0.60	13,700	-356	-0.71
RBZ8JG		14,219	-314	-0.62	13,513	-543	-1.08
S4KC57		15,038	504	0.99	14,537	481	0.96
SEHPBM		14,951	417	0.82	14,462	406	0.81
SN3LT8		14,157	-377	-0.74	13,575	-481	-0.96
SU4ESP		14,930	397	0.78	14,313	257	0.51
SW2WRB		14,328	-206	-0.40	13,691	-365	-0.72
U65UMJ		13,377	-1,157	-2.28	12,939	-1,117	-2.22
U83XX5		14,315	-218	-0.43	13,892	-164	-0.33
WN7GKG		14,645	112	0.22	14,093	37	0.07
X15K8M		13,677	-856	-1.68	13,256	-799	-1.59
XGN3J4		14,584	50	0.10	14,169	114	0.23
XRNEB4		14,527	-7	-0.01	13,900	-156	-0.31
Z2K984		14,248	-286	-0.56	13,861	-195	-0.39

Summary Statistics

Grand Means

14,533.8 psi

14,055.9 psi

Std Dev Btwn Labs

508.3 psi

503.4 psi

Statistics based on 46 of 52 reporting participants

Sample J71: ABS/PC & Sample J72: ABS/PC

Analysis 721

Flexural Stress at 5% Strain - psi

Comments on assigned Data Flags for Test #721

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

3B33GQ (X) - Inconsistent in testing between samples.

6QGFC8 (X) - Inconsistent in testing between samples.

6YZ91W (X) - Data for both samples are high and inconsistent in testing within both samples.

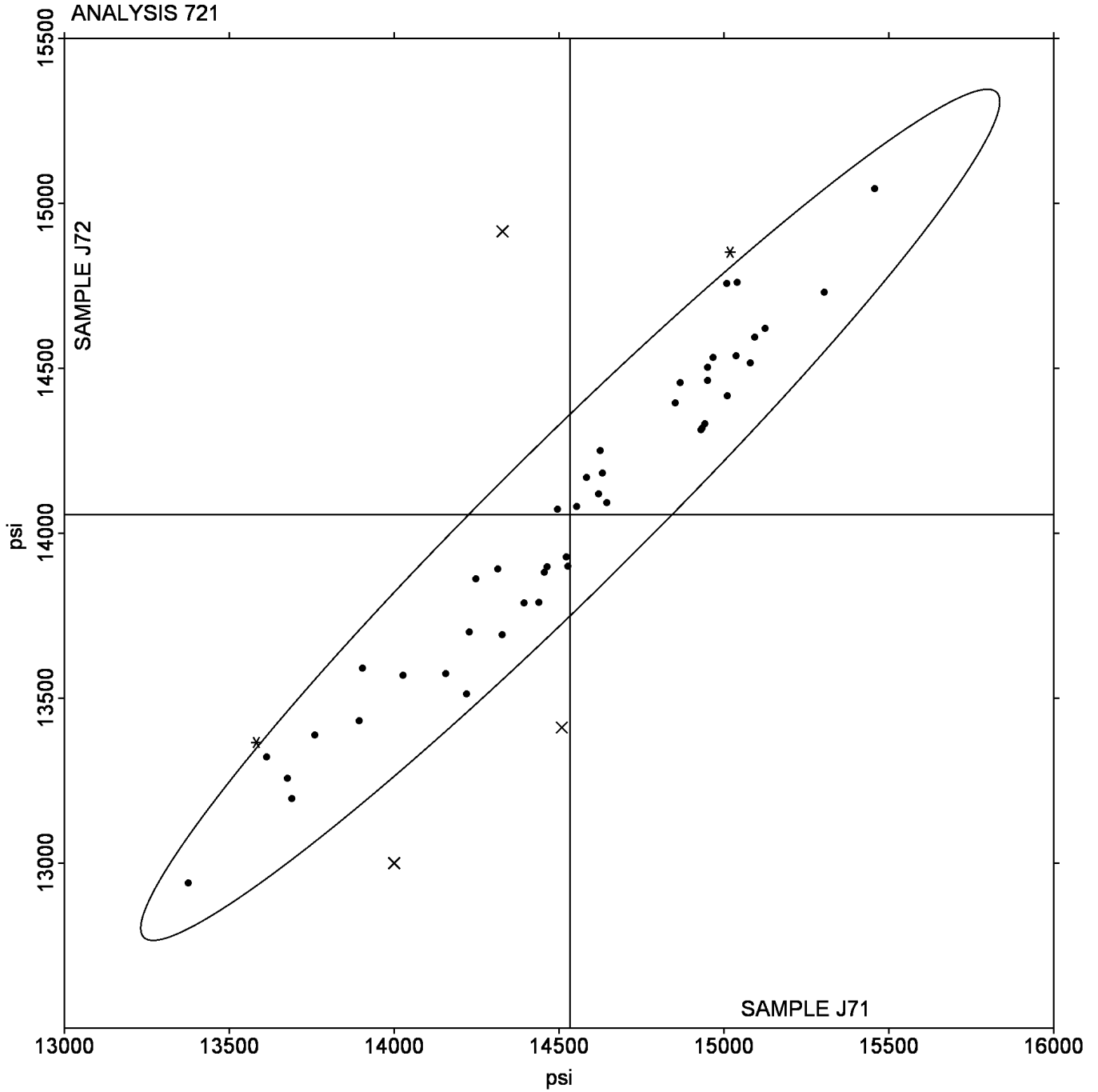
DQLRJK (M) - Laboratory did not submit data for Sample J72.

FDH4JY (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.

Analysis 721

Flexural Stress at 5% Strain - psi

Grand Mean Sample J71: 14,533.85 psi Grand Mean Sample J72: 14,055.88 psi



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

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

WebCode	Data Flag	Sample J71			Sample J72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
192NP2		14,445	29	0.05	13,739	-133	-0.28
2A9D2B		14,837	421	0.79	14,222	349	0.72
2AQVDA		14,500	85	0.16	13,809	-63	-0.13
2W9BXA		14,654	238	0.45	14,091	219	0.45
3BQH1M		14,109	-306	-0.57	13,572	-300	-0.62
3UNX2D		13,813	-603	-1.13	13,275	-597	-1.24
4LV5PY		14,218	-198	-0.37	13,589	-283	-0.59
6FHFJ1		13,774	-642	-1.20	13,242	-630	-1.30
7E5TDE		14,951	536	1.00	14,461	588	1.22
7F7DR8	*	14,000	-416	-0.78	13,000	-872	-1.81
7LRSYL		14,669	254	0.47	14,121	249	0.51
8QQ7HV	X	5,462	-8,953	-16.75	5,462	-8,410	-17.41
9MDCY3		13,708	-708	-1.32	13,192	-680	-1.41
A8PW88		14,422	6	0.01	13,727	-145	-0.30
ARPE7Y		14,577	161	0.30	13,813	-60	-0.12
BLTMHW		15,047	632	1.18	14,783	910	1.88
BUY1A2	M	No data reported for this sample			13,422	-450	-0.93
BWT1SS		14,324	-91	-0.17	13,867	-5	-0.01
C6NPY4		15,025	609	1.14	14,347	475	0.98
CSUMQH	M	No data reported for this sample			14,424	552	1.14
DCDBQE		13,953	-463	-0.87	13,445	-427	-0.88
DEX1JL		15,137	722	1.35	14,599	726	1.50
E38FXF		13,736	-680	-1.27	13,346	-526	-1.09
EKR9SB		13,987	-429	-0.80	13,902	29	0.06
ELLE5B		14,775	359	0.67	14,299	427	0.88
F5RB2E		13,896	-519	-0.97	13,435	-438	-0.91
G2NTLW	X	9,125	-5,291	-9.90	9,175	-4,697	-9.73
GSAAZ7		14,086	-329	-0.62	13,790	-82	-0.17
GTC4SD		14,676	260	0.49	14,186	314	0.65
HGHNGN		15,062	647	1.21	14,482	610	1.26
HT6BD2		13,626	-790	-1.48	13,122	-750	-1.55
HYJB8M		13,679	-737	-1.38	13,385	-487	-1.01

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

WebCode	Data Flag	Sample J71			Sample J72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
J97X4W		15,358	942	1.76	14,592	720	1.49
JCJD51		14,059	-357	-0.67	13,624	-248	-0.51
JXA5GR		14,593	177	0.33	13,908	35	0.07
KFNCJS		14,686	271	0.51	14,107	234	0.49
KTAYWU		13,463	-953	-1.78	12,932	-940	-1.95
NVEKJA	X	11,402	-3,014	-5.64	11,772	-2,101	-4.35
PZSKF2	X	10,316	-4,100	-7.67	9,458	-4,414	-9.14
RD45JB		14,720	304	0.57	14,157	285	0.59
T2WWWZ		14,062	-354	-0.66	13,824	-48	-0.10
TUFY3R		14,014	-402	-0.75	13,431	-442	-0.91
UF14GT		14,541	125	0.23	13,901	29	0.06
VBLV2U		13,996	-420	-0.79	13,901	29	0.06
VM1UM4	X	16,652	2,236	4.18	15,448	1,576	3.26
WCUPFL		15,087	671	1.26	14,459	587	1.22
WUF5L4		14,382	-33	-0.06	13,906	34	0.07
XSV7Z6		14,379	-37	-0.07	13,741	-131	-0.27
YR7UM5		14,976	560	1.05	14,329	457	0.95
YZ74G3	*	15,868	1,453	2.72	14,854	982	2.03

Summary Statistics

Grand Means

14,415.6 psi

13,872.3 psi

Std Dev Btwn Labs

534.4 psi

483.0 psi

Statistics based on 43 of 50 reporting participants

Sample J71: ABS/PC & Sample J72: ABS/PC

Analysis 722

Flexural Stress at Yield - psi

Comments on assigned Data Flags for Test #722

8QQ7HV (X) - Data for both samples are low.

BUY1A2 (M) - Laboratory did not submit data for Sample J71.

CSUMQH (M) - Laboratory did not submit data for Sample J71.

G2NTLW (X) - Data for both samples are low.

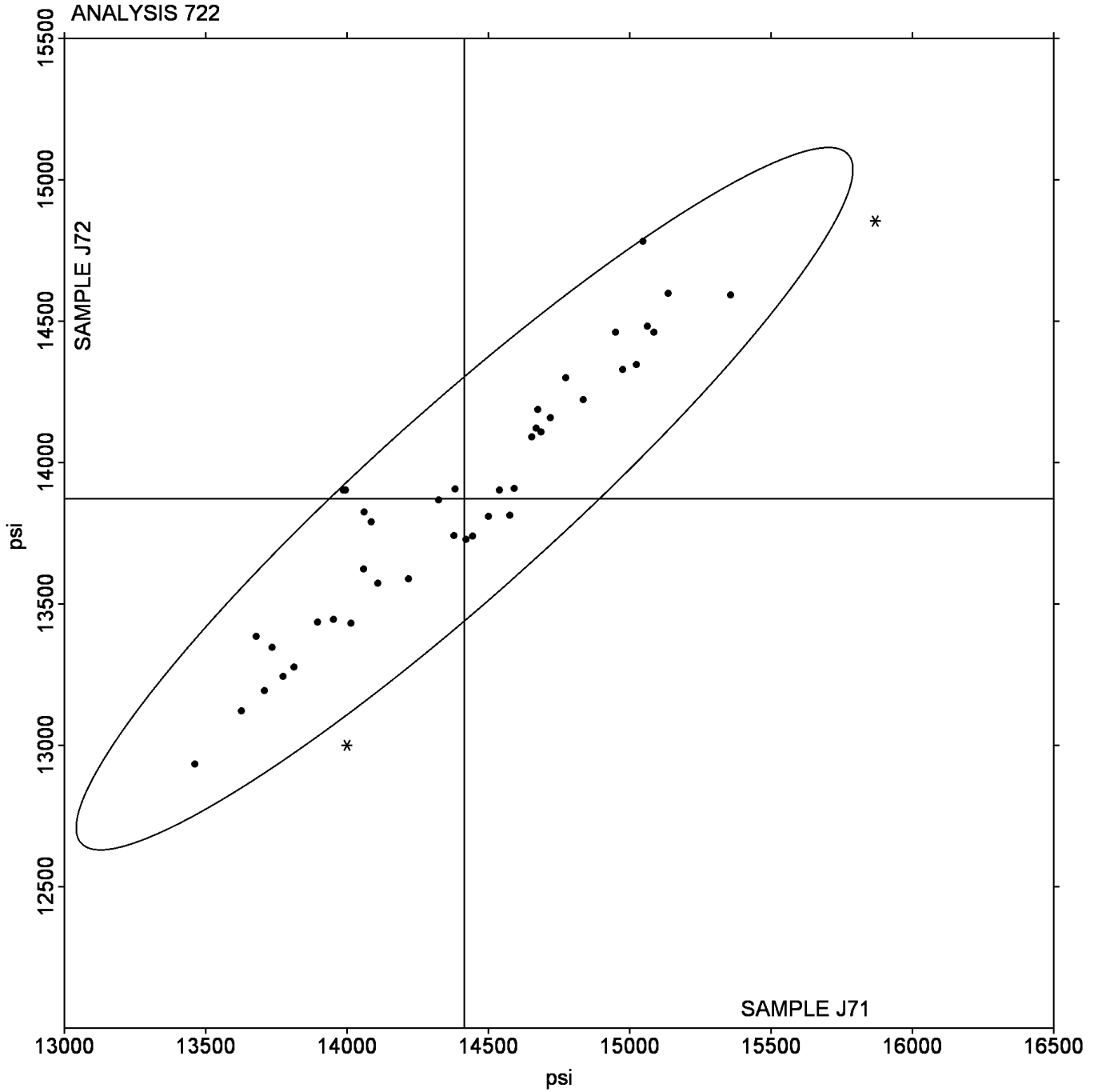
NVEKJA (X) - Data for both samples are low.

PZSKF2 (X) - Data for both samples are low.

VM1UM4 (X) - Data for both samples are high. Possible Systematic Error.

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

Grand Mean Sample J71: 14,415.56 psi Grand Mean Sample J72: 13,872.26 psi



Plastics Interlaboratory Testing Program
Analysis 736
Flexural Modulus - MPa

WebCode	Data Flag	Sample K71			Sample K72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1XCXBW		2,369	-33	-0.36	2,329	-58	-0.64
2AP9DQ		2,468	66	0.72	2,498	111	1.23
2GWU1F		2,520	117	1.28	2,509	122	1.35
2TYL7T		2,420	18	0.19	2,425	38	0.42
3J98P8	*	2,437	35	0.38	2,513	126	1.40
5PJZC5		2,410	8	0.09	2,398	11	0.12
5Y6HTB		2,439	36	0.40	2,419	32	0.36
652B7H		2,452	49	0.54	2,396	9	0.10
6BSAVR		2,376	-26	-0.29	2,348	-39	-0.43
6E9JYY		2,385	-17	-0.19	2,359	-28	-0.31
6MMJ92		2,383	-19	-0.21	2,310	-77	-0.86
6XGAVL	*	2,483	81	0.88	2,545	157	1.75
7AZW7L		2,390	-12	-0.13	2,412	25	0.28
859B2Q		2,287	-116	-1.26	2,272	-115	-1.28
8NCNCD		2,291	-111	-1.22	2,267	-120	-1.34
9CF8UF		2,482	80	0.87	2,457	70	0.78
A3KXVX		2,459	56	0.61	2,425	38	0.42
AZXXZ61		2,409	7	0.07	2,389	2	0.03
B9EZF3		2,545	142	1.55	2,519	132	1.47
CRWD4R		2,396	-6	-0.07	2,384	-3	-0.03
DNQEGQ		2,473	71	0.77	2,432	45	0.50
EN37YK		2,354	-48	-0.52	2,336	-51	-0.57
EN6V8B		2,257	-145	-1.59	2,256	-131	-1.46
G79SVK		2,370	-32	-0.35	2,380	-7	-0.08
HYW131		2,462	59	0.65	2,442	55	0.61
K1RW4D		2,481	79	0.86	2,461	74	0.82
L7K2ZE		2,540	138	1.50	2,453	66	0.73
LCUZS7		2,314	-88	-0.96	2,284	-103	-1.15
N1SCY2	*	2,142	-261	-2.84	2,196	-191	-2.13
NNYJ6Z		2,400	-2	-0.02	2,366	-21	-0.24
PH6YD3		2,547	145	1.58	2,515	128	1.42
R8UAQV		2,344	-58	-0.64	2,317	-70	-0.78

Plastics Interlaboratory Testing Program
Analysis 736
Flexural Modulus - MPa

WebCode	Data Flag	Sample K71			Sample K72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
RKLWWQ		2,338	-65	-0.71	2,367	-20	-0.23
RMNCWV		2,291	-111	-1.21	2,319	-68	-0.76
S8B2FD		2,551	149	1.62	2,539	152	1.69
T2EJBD		2,378	-24	-0.27	2,383	-4	-0.05
UZZYNR		2,555	153	1.67	2,527	140	1.56
VCNFBG		2,372	-30	-0.33	2,359	-28	-0.31
VVRB4T		2,211	-191	-2.08	2,209	-178	-1.98
WSMF4A		2,443	41	0.44	2,403	16	0.18
XAHYJA		2,391	-11	-0.12	2,381	-6	-0.07
XFXSWE		2,449	47	0.51	2,422	35	0.39
Y24J21		2,296	-106	-1.16	2,244	-143	-1.59
Y7BXUW		2,445	43	0.47	2,353	-34	-0.37
YL157K		2,423	20	0.22	2,417	30	0.33
YLJ58M		2,426	24	0.26	2,435	48	0.54
ZU7X1S		2,255	-147	-1.61	2,222	-165	-1.83

Summary Statistics

Grand Means

2,402.3 MPa

2,387.1 MPa

Std Dev Btwn Labs

91.6 MPa

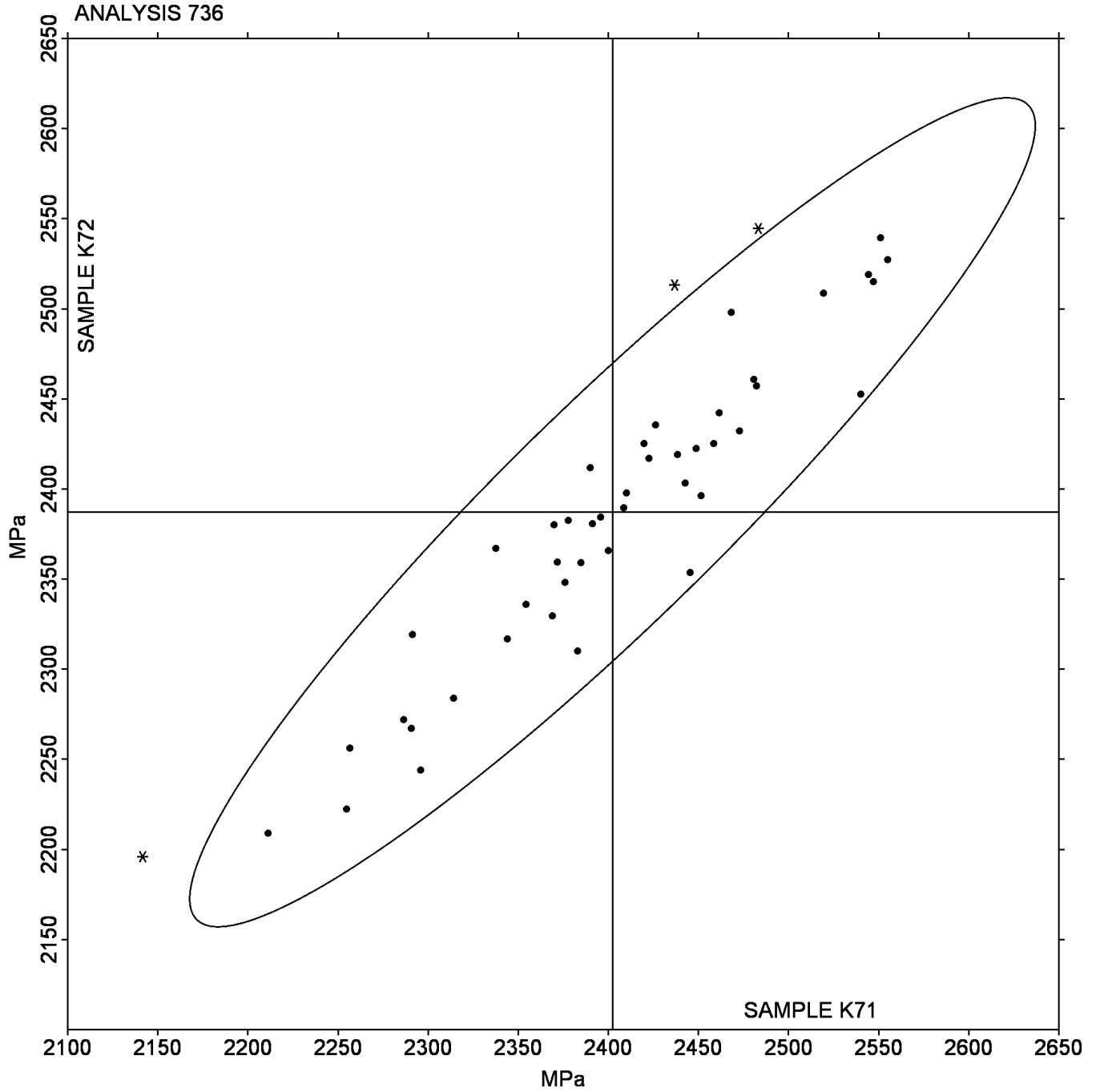
89.8 MPa

Statistics based on 47 of 47 reporting participants

Sample K71: ABS & Sample K72: ABS

Analysis 736
Flexural Modulus - MPa

Grand Mean Sample K71: 2,402.29 MPa Grand Mean Sample K72: 2,387.06 MPa



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

Plastics Interlaboratory Testing Program

Analysis 737

Flexural Stress at 3.5% Strain - MPa

WebCode	Data Flag	Sample K71			Sample K72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
29D7Q6		72.40	-0.04	-0.03	70.56	-0.98	-0.70
2T3L6F		75.54	3.10	1.81	73.10	1.56	1.13
42915L		71.82	-0.62	-0.36	70.35	-1.18	-0.85
6TTF61		71.13	-1.32	-0.77	69.62	-1.91	-1.38
7JXCKY		72.16	-0.29	-0.17	71.48	-0.05	-0.04
7W7MW7		71.78	-0.67	-0.39	70.22	-1.32	-0.95
8A3674		69.41	-3.04	-1.77	68.78	-2.76	-1.99
91DSQJ		73.06	0.62	0.36	71.77	0.24	0.17
9A6KF3		72.86	0.41	0.24	72.23	0.69	0.50
AYLMZX		74.00	1.55	0.91	72.66	1.12	0.81
CPXF8B		68.48	-3.96	-2.31	69.24	-2.30	-1.66
CRXANN		74.38	1.93	1.13	73.21	1.67	1.21
D7HCR4		71.68	-0.76	-0.45	70.74	-0.80	-0.58
DAXA17		72.22	-0.22	-0.13	71.19	-0.35	-0.25
ECD9G9	X	2,361.06	2,288.62	1,336.47	2,358.16	2,286.62	1,649.16
EEEEFLT	X	74.40	1.96	1.14	75.60	4.06	2.93
FBVAEQ		73.45	1.01	0.59	72.02	0.49	0.35
KGKNKM		73.56	1.12	0.65	72.57	1.03	0.75
KX6YNA		71.08	-1.36	-0.80	71.87	0.33	0.24
MQJT2N		73.18	0.73	0.43	72.35	0.81	0.58
N12UNU		71.15	-1.30	-0.76	71.18	-0.36	-0.26
NYJSP1	X	77.02	4.57	2.67	79.70	8.16	5.89
P6XA3Z		74.86	2.41	1.41	72.23	0.69	0.50
Q4FDH8		70.94	-1.50	-0.88	70.98	-0.56	-0.40
Q9C1A1		72.43	-0.02	-0.01	71.85	0.31	0.23
QJWSZT		70.28	-2.16	-1.26	70.43	-1.11	-0.80
S694DK		74.64	2.20	1.28	73.52	1.98	1.43
UC25MB		70.43	-2.01	-1.17	69.43	-2.10	-1.52
USZSWV		75.52	3.08	1.80	74.23	2.69	1.94
VATZFL		74.48	2.04	1.19	73.84	2.30	1.66
W958F7		70.82	-1.63	-0.95	70.12	-1.42	-1.03
WD9274		72.65	0.21	0.12	71.87	0.33	0.24

Analysis 737

Flexural Stress at 3.5% Strain - MPa

WebCode	Data Flag	Sample K71			Sample K72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
XCMS12		71.82	-0.63	-0.37	70.90	-0.64	-0.46
XG26ZU		73.44	1.00	0.58	73.25	1.71	1.23
Y9LY2P		73.85	1.41	0.82	72.57	1.04	0.75
ZY1V8W		71.15	-1.30	-0.76	70.37	-1.17	-0.84

Summary Statistics

Grand Means

72.443 MPa

71.537 MPa

Std Dev Btwn Labs

1.712 MPa

1.387 MPa

Statistics based on 33 of 36 reporting participants

Sample K71: ABS & Sample K72: ABS

Comments on assigned Data Flags for Test #737

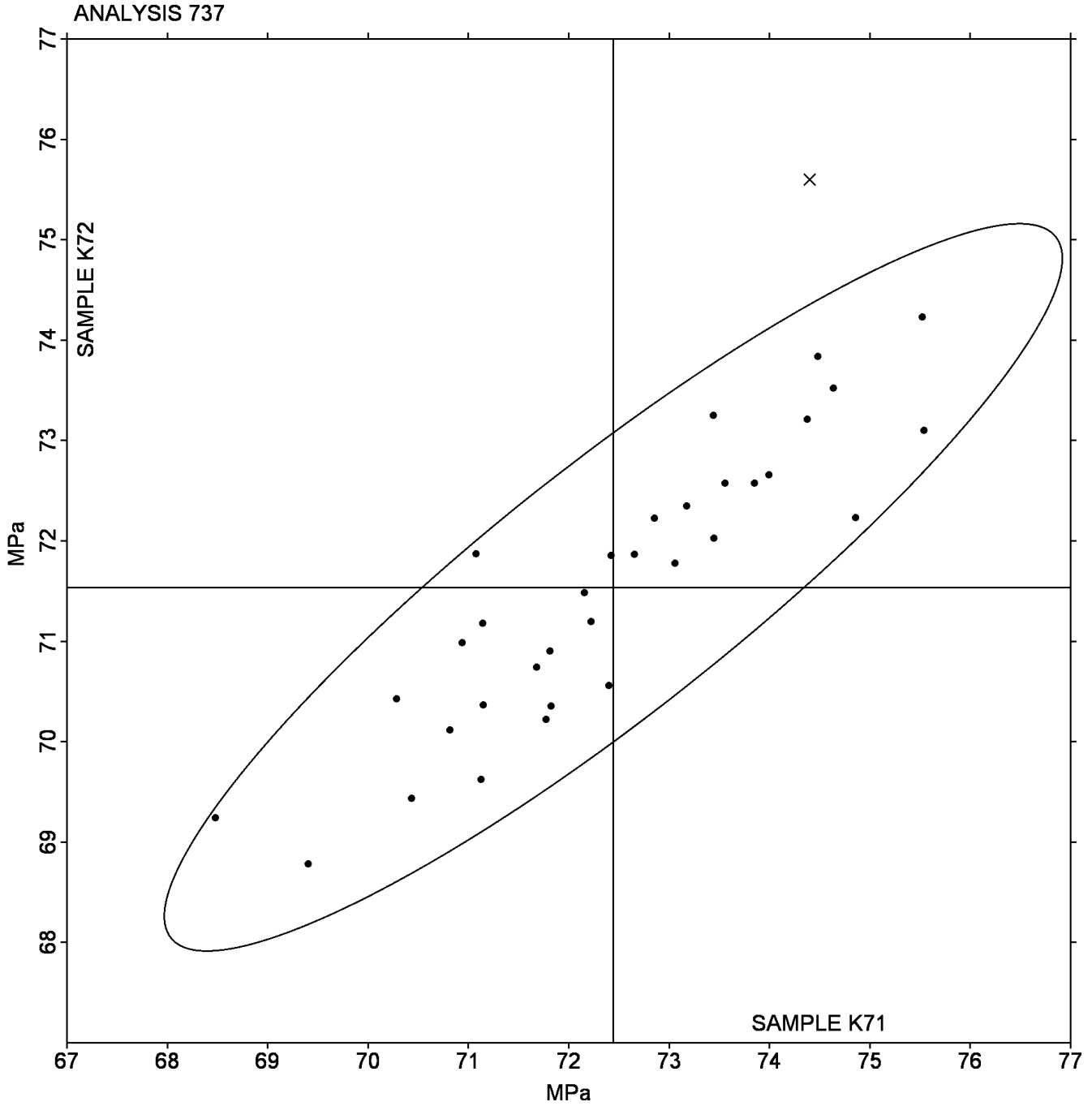
ECD9G9 (X) - Extreme data.

EEEFLT (X) - Inconsistent in testing between samples, data for Sample K72 are high.

NYJSP1 (X) - Data for both samples are high.

Analysis 737
Flexural Stress at 3.5% Strain - MPa

Grand Mean Sample K71: 72.443 MPa Grand Mean Sample K72: 71.537 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 K71			Sample K72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23E61J		74.13	0.11	0.06	72.99	-0.01	-0.01
3A6U6L		70.35	-3.67	-1.84	70.11	-2.88	-1.73
4XAP9L		73.51	-0.51	-0.25	71.92	-1.07	-0.64
9JE3T9		76.86	2.84	1.42	74.42	1.42	0.86
9QVBXC		71.05	-2.97	-1.49	69.95	-3.04	-1.83
A2E96L		74.12	0.10	0.05	73.04	0.05	0.03
B1MLF3		73.19	-0.83	-0.42	71.60	-1.40	-0.84
BQ29AS		72.71	-1.31	-0.66	72.16	-0.84	-0.50
BS66AM		75.16	1.14	0.57	73.08	0.08	0.05
CZE53A	*	77.20	3.18	1.60	74.04	1.05	0.63
DAPEAF		74.39	0.37	0.19	73.81	0.81	0.49
DEYTGT		75.35	1.33	0.67	74.28	1.29	0.77
DF8XX3		72.80	-1.22	-0.61	72.75	-0.25	-0.15
EZKTCF		73.98	-0.04	-0.02	72.71	-0.28	-0.17
F5P3U8	X	68.25	-5.77	-2.90	38.43	-34.57	-20.75
FN9YZP		71.88	-2.14	-1.07	70.72	-2.27	-1.36
GY3D2B		72.81	-1.21	-0.61	71.66	-1.34	-0.80
H8YZCE		72.58	-1.44	-0.72	72.78	-0.22	-0.13
HEPR5P		73.92	-0.10	-0.05	71.94	-1.06	-0.63
HKF5W3		70.14	-3.88	-1.95	70.96	-2.04	-1.22
K74ZKM		73.02	-1.00	-0.50	71.43	-1.56	-0.94
KB42X3	*	78.85	4.83	2.42	77.81	4.81	2.89
LSH3NW		73.93	-0.09	-0.04	72.95	-0.05	-0.03
MFDUHD		74.39	0.37	0.19	73.27	0.28	0.17
NGXSV4		74.25	0.23	0.12	73.77	0.77	0.46
PDTNBF		72.77	-1.25	-0.62	72.20	-0.80	-0.48
S2LQER		71.76	-2.26	-1.13	72.13	-0.86	-0.52
SSC7EE		75.27	1.25	0.63	74.53	1.54	0.92
SZLLTG		75.12	1.10	0.55	74.70	1.71	1.02
VJPQAU		77.04	3.02	1.51	75.83	2.83	1.70
WA9QA4		73.79	-0.23	-0.12	72.93	-0.07	-0.04
WEGVQ4		76.06	2.04	1.02	74.87	1.87	1.13

Analysis 738

Flexural Stress at Yield - MPa

WebCode	Data Flag	Sample K71			Sample K72		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
YQAHKA		76.23	2.21	1.11	74.52	1.52	0.91

Summary Statistics

Grand Means

74.020 MPa

72.995 MPa

Std Dev Btwn Labs

1.994 MPa

1.666 MPa

Statistics based on 32 of 33 reporting participants

Sample K71: ABS & Sample K72: ABS

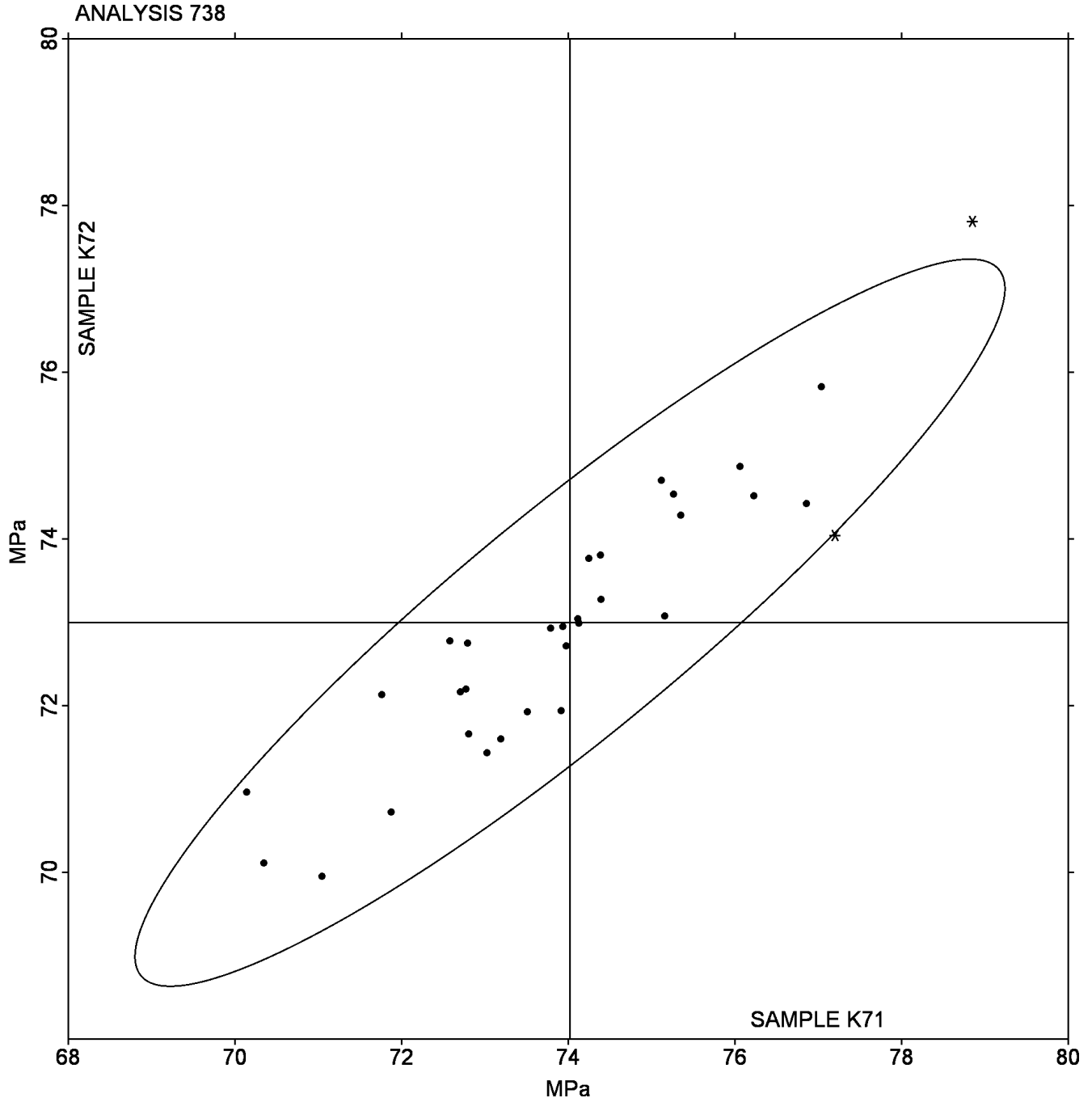
Comments on assigned Data Flags for Test #738

F5P3U8 (X) - Data for both samples are low.

Analysis 738

Flexural Stress at Yield - MPa

Grand Mean Sample K71: 74.020 MPa Grand Mean Sample K72: 72.995 MPa



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

Analysis 790

Notched Izod Impact - ft.lbf/in

WebCode	Data Flag	Sample S71			Sample S72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
13K16J		4.97	0.16	0.65	5.52	0.35	1.08	TM
18H9YY		4.60	-0.21	-0.82	4.85	-0.32	-0.98	TO
1BJYAL		4.75	-0.05	-0.22	5.13	-0.04	-0.11	TO
1MHN2U		4.81	0.01	0.04	5.71	0.55	1.67	TM
2GQWEJ	X	3.41	-1.39	-5.56	3.59	-1.57	-4.79	TO
2TXRJF		4.82	0.02	0.08	5.07	-0.10	-0.30	TO
2X11VP		4.98	0.18	0.72	5.19	0.02	0.07	TY
3D8TGD	*	4.99	0.19	0.75	4.62	-0.55	-1.68	CE
3ESFBF	X	5.86	1.06	4.23	6.82	1.66	5.05	WZ
413IJZ		4.53	-0.27	-1.09	4.57	-0.60	-1.82	TO
433VRA		4.77	-0.03	-0.12	5.22	0.05	0.16	CE
53QT63		4.66	-0.15	-0.59	4.81	-0.35	-1.07	TM
59YLHS		4.48	-0.32	-1.28	4.91	-0.26	-0.79	TM
5DYWQD		5.16	0.36	1.43	5.32	0.15	0.47	TO
5VJMPC	X	10.28	5.47	21.85	10.60	5.43	16.54	CS
648TGV	X	5.83	1.03	4.11	5.93	0.76	2.32	TO
652VVZ		4.91	0.11	0.42	5.32	0.16	0.48	CE
6Z5XY9		4.51	-0.30	-1.18	4.90	-0.26	-0.80	WY
7E2JPF	X	0.57	-4.23	-16.88	0.67	-4.50	-13.70	TO
7MPEHX		4.87	0.07	0.27	5.29	0.13	0.38	TM
7U9WD1		4.77	-0.03	-0.13	4.69	-0.48	-1.45	WZ
8EBACR		4.76	-0.04	-0.16	5.02	-0.14	-0.44	TM
8JFRB6		4.85	0.05	0.20	5.36	0.19	0.58	CE
8YMLEU		4.64	-0.16	-0.66	5.06	-0.10	-0.31	TO
93MYBK		5.27	0.47	1.87	5.79	0.62	1.89	TO
995YFJ		4.90	0.10	0.39	5.56	0.39	1.19	TO
AR8LPV		4.84	0.04	0.15	4.73	-0.44	-1.34	TO
ATV9Y9		5.03	0.23	0.91	5.44	0.28	0.84	TO
BAG3AK		4.76	-0.04	-0.18	4.89	-0.28	-0.85	CE
BB5PVV		4.52	-0.28	-1.11	5.05	-0.12	-0.36	TM
BBSATZ	X	4.87	0.07	0.28	2.37	-2.80	-8.52	CE
BXW2Y7		4.82	0.02	0.08	4.89	-0.28	-0.86	BA

Plastics Interlaboratory Testing Program

Analysis 790

Notched Izod Impact - ft.lbf/in

WebCode	Data Flag	Sample S71			Sample S72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
CJ4E8J	X	4.03	-0.77	-3.07	5.01	-0.16	-0.48	TO
CT76KD		5.19	0.39	1.55	5.37	0.20	0.61	XX
CX47PT		4.51	-0.30	-1.18	5.45	0.28	0.86	TM
ERUQ6J		4.88	0.08	0.32	5.32	0.16	0.48	TO
EUUDSE		4.62	-0.18	-0.73	5.29	0.12	0.37	TO
EXDXM3		5.16	0.36	1.43	5.65	0.48	1.47	TM
EYHVDY		4.70	-0.10	-0.40	5.10	-0.07	-0.21	TM
G3HBPJ		5.19	0.39	1.54	5.85	0.69	2.09	TM
G9UC9F		5.15	0.35	1.39	5.89	0.73	2.21	AT
GL3EU7	X	0.44	-4.36	-17.40	0.39	-4.77	-14.54	TM
HEC18Q		4.49	-0.31	-1.25	4.74	-0.42	-1.29	CE
HSXSZZ		4.80	0.00	-0.02	5.08	-0.09	-0.26	CS
J53T49		5.23	0.43	1.71	5.88	0.72	2.18	BA
JA5TW6	X	1.73	-3.07	-12.26	2.01	-3.15	-9.60	TO
JCFD3U	X	3.81	-0.99	-3.96	4.07	-1.10	-3.34	XX
JJFCD4		4.71	-0.10	-0.38	5.05	-0.11	-0.35	XX
JM6Z5B		4.82	0.02	0.09	5.42	0.25	0.78	TM
JWZPJY	X	3.70	-1.11	-4.41	3.98	-1.18	-3.61	CE
K25W7F		4.85	0.05	0.21	5.30	0.13	0.40	CS
K3N36Q	X	5.70	0.89	3.57	6.78	1.61	4.90	SA
KP2559		4.59	-0.21	-0.84	5.52	0.36	1.08	TO
L6WQX9		4.73	-0.07	-0.27	4.97	-0.20	-0.60	TM
LTQRZA		4.55	-0.25	-1.01	4.92	-0.25	-0.75	XX
MCRS3K		4.76	-0.04	-0.17	4.85	-0.32	-0.97	XX
MQUR2X		4.33	-0.48	-1.90	4.73	-0.44	-1.33	TM
MVS7RY		4.61	-0.19	-0.78	4.90	-0.27	-0.82	TM
N7UL5U		4.61	-0.19	-0.77	4.58	-0.58	-1.78	CE
NAV4AW		4.46	-0.34	-1.37	5.08	-0.09	-0.26	TM
NKKWF1		4.56	-0.24	-0.97	5.05	-0.11	-0.35	TO
NVB1DU	X	5.80	1.00	3.98	6.90	1.74	5.29	TM
P77LA3		4.34	-0.46	-1.84	4.76	-0.41	-1.25	TO
PAJE8X		4.77	-0.03	-0.13	4.95	-0.22	-0.67	TO

Analysis 790

Notched Izod Impact - ft.lbf/in

WebCode	Data Flag	Sample S71			Sample S72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
Q73WVS		4.63	-0.17	-0.69	5.53	0.36	1.10	TO
QGJC3T	X	3.38	-1.43	-5.69	3.41	-1.76	-5.36	TO
QL4C1T		4.81	0.01	0.02	5.26	0.10	0.30	TO
QMVMJ8		5.23	0.43	1.71	5.61	0.45	1.36	TM
QVCLJK		4.47	-0.33	-1.33	4.84	-0.33	-1.00	TM
QYP6ZZ		4.48	-0.32	-1.29	4.90	-0.27	-0.82	TM
RGRE2Q		5.34	0.54	2.15	5.81	0.64	1.95	CE
SG2DGD		4.85	0.05	0.21	5.26	0.09	0.28	BA
SWG2KN		4.99	0.19	0.75	5.41	0.25	0.75	TO
TC3ACY		5.08	0.28	1.11	5.10	-0.07	-0.20	TM
TCD4NE		4.58	-0.22	-0.88	5.03	-0.13	-0.41	CE
TMF1F3		4.97	0.17	0.67	5.32	0.16	0.47	TO
U6EUFE		4.53	-0.27	-1.08	4.96	-0.21	-0.63	CE
UJM7L1		4.88	0.08	0.31	5.08	-0.09	-0.26	TO
VBPSKZ	*	5.45	0.65	2.58	5.58	0.41	1.25	TM
VFCL7Z	*	5.04	0.23	0.93	4.75	-0.42	-1.28	CE
WSXW3W		4.69	-0.11	-0.43	5.25	0.09	0.26	XX
Y5RCL3		4.53	-0.27	-1.09	5.12	-0.04	-0.13	TM
YHA6MT		5.04	0.24	0.94	5.10	-0.06	-0.19	TO
Z7C41J		4.70	-0.10	-0.39	5.00	-0.17	-0.52	TO
ZN4H4A		5.11	0.31	1.22	5.31	0.15	0.45	CE
ZX4VF4		4.79	-0.01	-0.06	5.17	0.01	0.02	TM

Summary Statistics

Grand Means

4.802 ft.lbf/in

5.167 ft.lbf/in

Std Dev Btwn Labs

0.251 ft.lbf/in

0.328 ft.lbf/in

Statistics based on 72 of 86 reporting participants

Sample S71: HIPS & Sample S72: HIPS

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

Comments on assigned Data Flags for Test #790

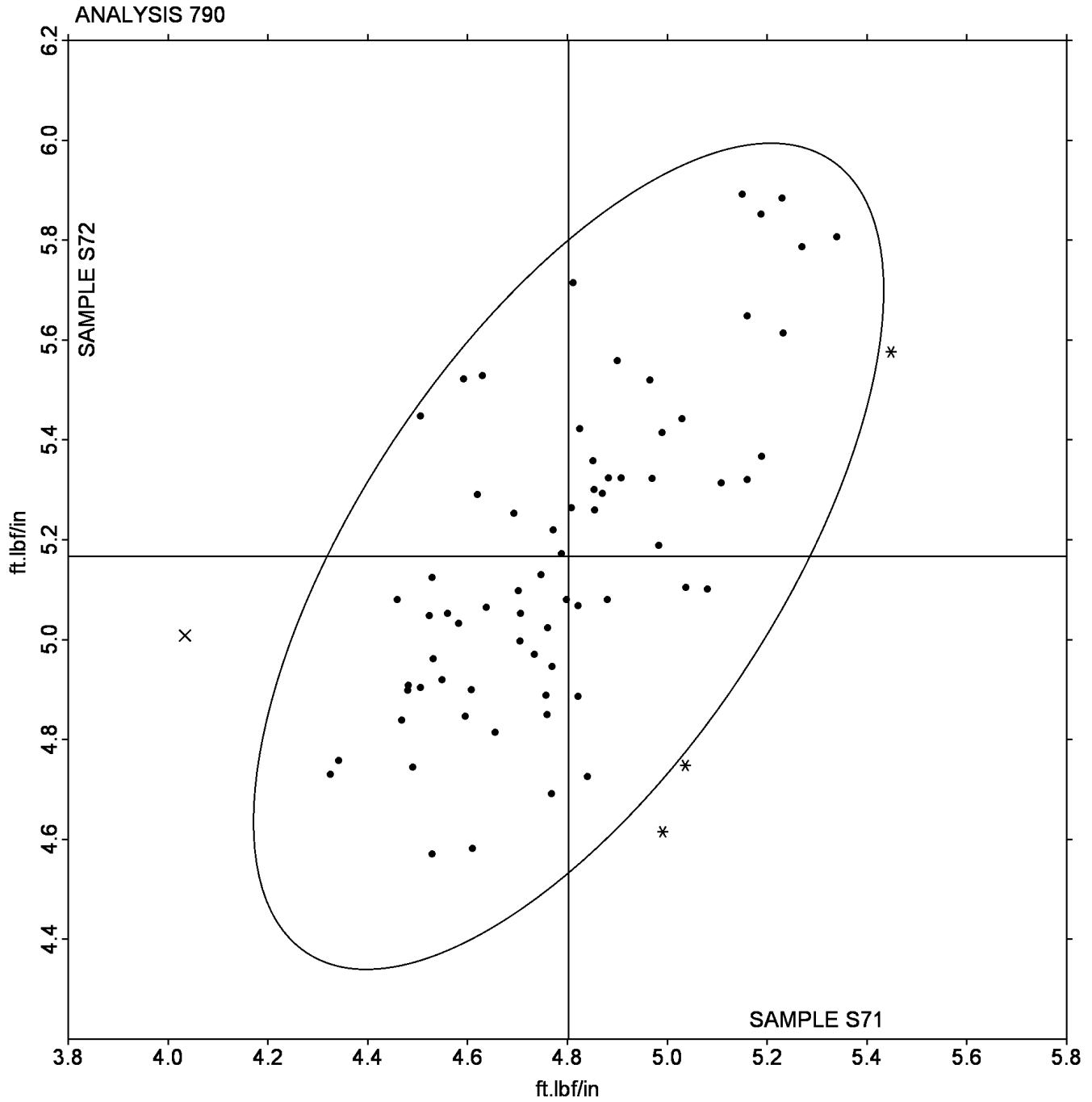
2GQWEJ (X) - Data for both samples are low.
3ESFBF (X) - Data for both samples are high.
5VJMPC (X) - Data for both samples are high.
648TGV (X) - Inconsistent in testing between samples, data for Sample S71 are high.
7E2JPF (X) - Extreme data. Data appear to be off by a factor of 10.
BBSATZ (X) - Inconsistent in testing between samples, data for Sample S72 are low.
CJ4E8J (X) - Inconsistent in testing between samples, data for Sample S71 are low.
GL3EU7 (X) - Extreme data. Data appear to be off by a factor of 10.
JA5TW6 (X) - Data for both samples are low.
JCFD3U (X) - Data for both samples are low.
JWZPJY (X) - Data for both samples are low.
K3N36Q (X) - Data for both samples are high.
NVB1DU (X) - Data for both samples are high.
QGJC3T (X) - Data for both samples are low.

Instrument Code List as Reported by the Labs

(AT) - Atlas	(BA) - Baldwin
(CE) - Ceast	(CS) - CSI
(SA) - Satec	(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 S71: 4.8023 ft.lbf/in Grand Mean Sample S72: 5.1669 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 M71			Sample M72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2JGDSH		15.63	-7.50	-1.72	14.88	-7.67	-1.71	XX
2QEH9V		28.04	4.91	1.13	30.86	8.31	1.86	TM
48SBCU		21.96	-1.17	-0.27	20.76	-1.79	-0.40	XX
4JE8KN		26.34	3.21	0.74	23.85	1.30	0.29	TY
4JQTSH		23.42	0.29	0.07	24.03	1.48	0.33	WZ
62BSPM		19.80	-3.33	-0.76	22.46	-0.09	-0.02	TO
8SJGRG		24.08	0.95	0.22	26.24	3.69	0.82	TM
8YBXL1		19.05	-4.08	-0.93	20.85	-1.71	-0.38	WZ
9YUP7D		20.69	-2.44	-0.56	19.61	-2.94	-0.66	CE
A2TBP8	X	582.50	559.37	128.07	554.02	531.47	118.68	CE
AAWP8W		21.40	-1.73	-0.40	23.94	1.39	0.31	BA
B6PARA		18.06	-5.07	-1.16	15.71	-6.84	-1.53	TM
CX2K6W		27.44	4.31	0.99	27.14	4.59	1.02	WZ
D4JSAZ		19.81	-3.32	-0.76	20.47	-2.08	-0.47	XX
DEL7Z4		19.56	-3.57	-0.82	20.67	-1.88	-0.42	XX
DVR2HK		20.90	-2.23	-0.51	24.38	1.83	0.41	TO
HDPCD3		22.73	-0.40	-0.09	18.52	-4.03	-0.90	TO
JDP6VV		27.03	3.90	0.89	23.18	0.63	0.14	CE
KR3XH9	*	34.99	11.86	2.72	35.01	12.46	2.78	KF
L65P9W		30.25	7.12	1.63	26.67	4.12	0.92	CE
LCPQTH	*	24.00	0.87	0.20	30.96	8.41	1.88	SA
LUR87C		27.13	4.00	0.92	22.22	-0.33	-0.07	CE
M9NKTN		20.58	-2.55	-0.58	21.12	-1.44	-0.32	CE
NM1YTT		19.44	-3.69	-0.84	16.94	-5.61	-1.25	TM
PKQJW7		24.30	1.17	0.27	20.82	-1.73	-0.39	XX
Q3WJFK		20.87	-2.26	-0.52	22.96	0.41	0.09	CE
QX3A2Z		21.31	-1.82	-0.42	19.29	-3.26	-0.73	PO
S1HEVE	X	39.78	16.65	3.81	39.06	16.51	3.69	TM
S89U87		20.38	-2.75	-0.63	18.70	-3.85	-0.86	TM
SGRS8J		24.26	1.13	0.26	19.20	-3.35	-0.75	TM
SVQPC3		16.43	-6.70	-1.53	18.12	-4.43	-0.99	TO
UB8VF7		19.76	-3.37	-0.77	19.86	-2.69	-0.60	CE

Analysis 792

Notched Charpy Impact - kJ/m²

WebCode	Data Flag	Sample M71			Sample M72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
UMM1CV		19.03	-4.10	-0.94	17.04	-5.51	-1.23	CE
V3ZFPS	X	243.56	220.43	50.47	271.42	248.87	55.57	TM
V9D6QQ	X	33.15	10.02	2.29	22.07	-0.49	-0.11	CE
VJ2TV3		23.86	0.73	0.17	21.84	-0.71	-0.16	TO
VM1Q1F		20.08	-3.05	-0.70	19.69	-2.86	-0.64	XX
W5DKFT		22.54	-0.59	-0.14	21.40	-1.15	-0.26	TO
WEPTA2		32.20	9.07	2.08	31.14	8.58	1.92	TM
WJDNET		21.54	-1.59	-0.36	21.54	-1.01	-0.23	TO
WTCD4G		21.94	-1.19	-0.27	21.36	-1.19	-0.27	TO
XV4HMF		28.00	4.87	1.12	29.03	6.48	1.45	XX
YT4X2Z		19.84	-3.29	-0.75	19.19	-3.36	-0.75	TM
YXJJWS		28.26	5.13	1.18	26.95	4.40	0.98	TM
Z2F1S6	X	41.22	18.09	4.14	18.64	-3.91	-0.87	CE
ZCRH2W		31.36	8.23	1.88	26.00	3.45	0.77	XX

Summary Statistics			
Grand Means	23.129	kJ/m ²	22.552
			kJ/m ²
Std Dev Btwn Labs	4.368	kJ/m ²	4.478
			kJ/m ²
Statistics based on 41 of 46 reporting participants			

Sample M71: ABS/PC & Sample M72: ABS/PC

Comments on assigned Data Flags for Test #792

A2TBP8 (X) - Extreme data.

S1HEVE (X) - Data for both samples are high. Possible Systematic Error.

V3ZFPS (X) - Extreme data.

V9D6QQ (X) - Inconsistent in testing between samples.

Z2F1S6 (X) - Inconsistent in testing between samples, data for Sample M71 are high.

Analysis 792

Notched Charpy Impact - kJ/m²**Instrument Code List as Reported by the Labs**

(BA) - Baldwin

(KF) - Karl Frank GmbH

(SA) - Satec

(TO) - Tinius Olsen

(WZ) - Zwick

(CE) - Ceast

(PO) - POE

(TM) - TMI

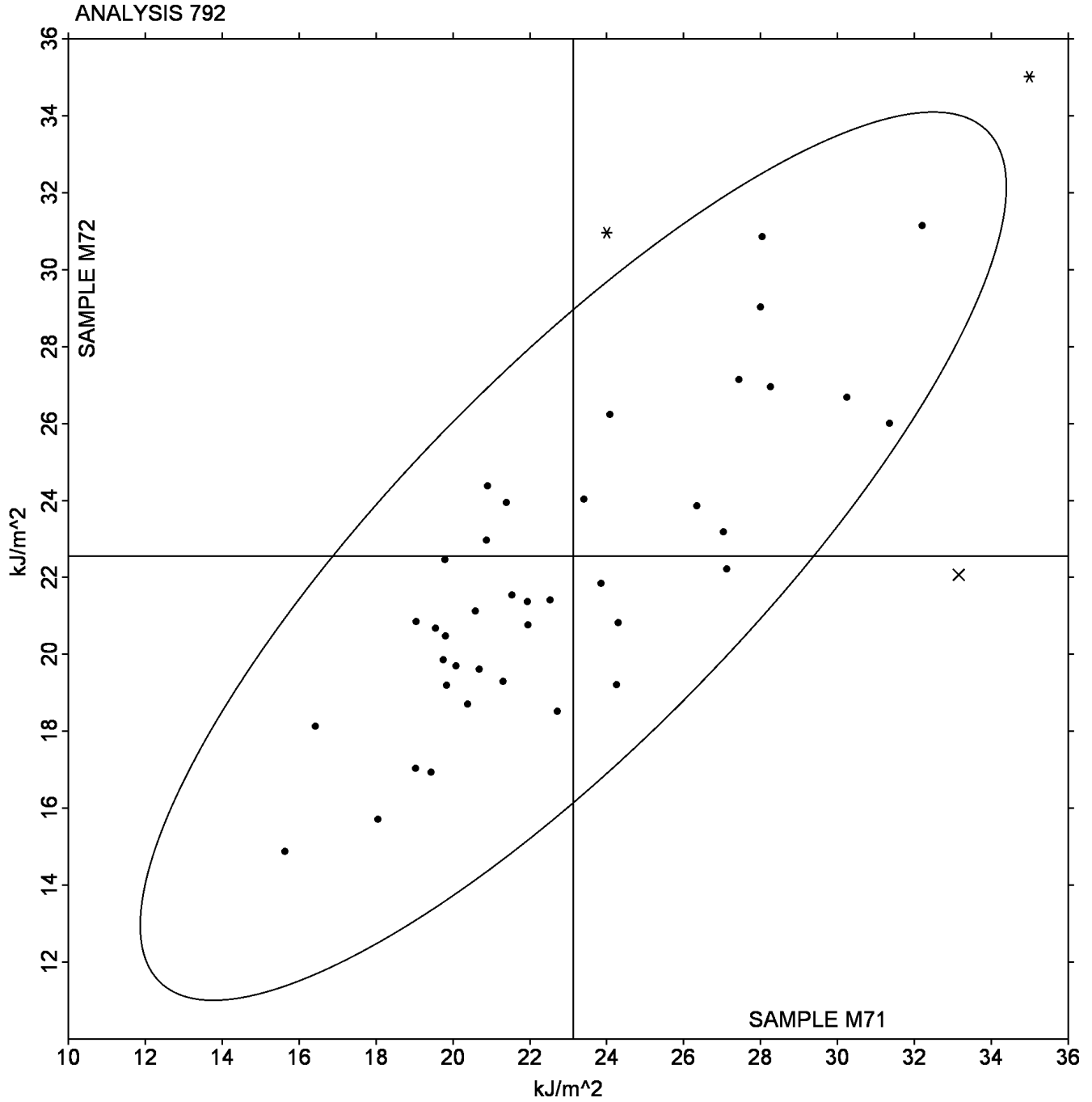
(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

Analysis 792

Notched Charpy Impact - kJ/m²

Grand Mean Sample M71: 23.129 kJ/m² Grand Mean Sample M72: 22.552 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 E71			Sample E72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1AN92X		87.68	-0.76	-0.57	86.35	-0.96	-0.72	TO
1MZR9N	*	89.18	0.74	0.56	86.35	-0.96	-0.72	EM
2BKN1F		88.08	-0.36	-0.27	86.38	-0.94	-0.70	RO
2RP5Q4		90.18	1.74	1.31	89.00	1.69	1.26	CE
3WXAYZ		91.08	2.64	1.99	88.75	1.44	1.08	CS
4RUBPN		88.83	0.39	0.29	87.73	0.41	0.31	TO
6DEVE1		87.30	-1.14	-0.86	86.38	-0.94	-0.70	AT
6EAS7P		89.28	0.84	0.63	88.23	0.91	0.68	AT
6KREKN		89.13	0.69	0.52	87.98	0.66	0.50	TO
6YHJ6X		89.00	0.56	0.43	87.58	0.26	0.20	CE
76MSE3		87.75	-0.69	-0.52	87.18	-0.14	-0.10	DN
7AGWEG		89.83	1.39	1.05	88.40	1.09	0.81	CE
9FDFAJ		89.45	1.01	0.77	89.53	2.21	1.66	XX
9PNGEC		88.40	-0.04	-0.03	87.33	0.01	0.01	DN
9TC8DU		87.35	-1.09	-0.82	86.68	-0.64	-0.48	TO
A1DJJQ		87.68	-0.76	-0.57	86.80	-0.51	-0.38	AT
A2G25T		87.75	-0.69	-0.52	86.28	-1.04	-0.78	CE
BC1ZWQ		90.30	1.86	1.41	88.73	1.41	1.06	TO
CZL32E		87.70	-0.74	-0.56	86.60	-0.71	-0.53	EM
EHEK4E		86.85	-1.59	-1.20	85.40	-1.91	-1.43	XX
FTXFXD		88.68	0.24	0.18	87.68	0.36	0.27	XX
G3VM6H		87.63	-0.81	-0.61	86.48	-0.84	-0.63	TO
GF4RRX		88.98	0.54	0.41	86.65	-0.66	-0.50	XA
H5SMM1	*	84.63	-3.81	-2.88	83.60	-3.71	-2.78	XX
J6X95S		88.73	0.29	0.22	88.15	0.84	0.63	XX
JEJ8MX		86.28	-2.16	-1.63	85.85	-1.46	-1.09	XX
K1YUX9		88.25	-0.19	-0.14	87.20	-0.11	-0.08	TY
L58PJS		87.68	-0.76	-0.57	86.28	-1.04	-0.78	TO
LFJTXW		88.63	0.19	0.14	87.10	-0.21	-0.16	TO
MMUUJD		89.88	1.44	1.09	88.70	1.39	1.04	XX
MW8RRG	X	94.98	6.54	4.94	94.38	7.06	5.29	RR
PGFTEJ		88.45	0.01	0.01	88.83	1.51	1.13	AT

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

WebCode	Data Flag	Sample E71			Sample E72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
QJTPA2		91.33	2.89	2.18	90.18	2.86	2.14	CE
RPVQKP		88.65	0.21	0.16	87.50	0.19	0.14	AT
SK7EK3	X	84.38	-4.06	-3.06	81.68	-5.64	-4.22	TO
SV4AS6		85.93	-2.51	-1.89	85.53	-1.79	-1.34	XX
TUY9Y8	*	90.25	1.81	1.37	90.35	3.04	2.27	AT
XP17D7		88.33	-0.11	-0.08	86.50	-0.81	-0.61	CE
XQAMJM		88.08	-0.36	-0.27	86.73	-0.59	-0.44	CE
YDPM4K		88.70	0.26	0.20	87.83	0.51	0.38	TO
YXKBU1		88.10	-0.34	-0.25	86.68	-0.64	-0.48	CE
YY3CYF		87.55	-0.89	-0.67	87.10	-0.21	-0.16	CE
ZZ8PXX	X	65.03	-23.41	-17.67	61.35	-25.96	-19.43	AT

Summary Statistics			
Grand Means	88.436	Degrees C	87.312 Degrees C
Std Dev Btwn Labs	1.325	Degrees C	1.336 Degrees C
Statistics based on 40 of 43 reporting participants			

Sample E71: ABS/PC & Sample E72: ABS/PC

Comments on assigned Data Flags for Test #710

MW8RRG (X) - Data for both samples are high.

SK7EK3 (X) - Data for both samples are low.

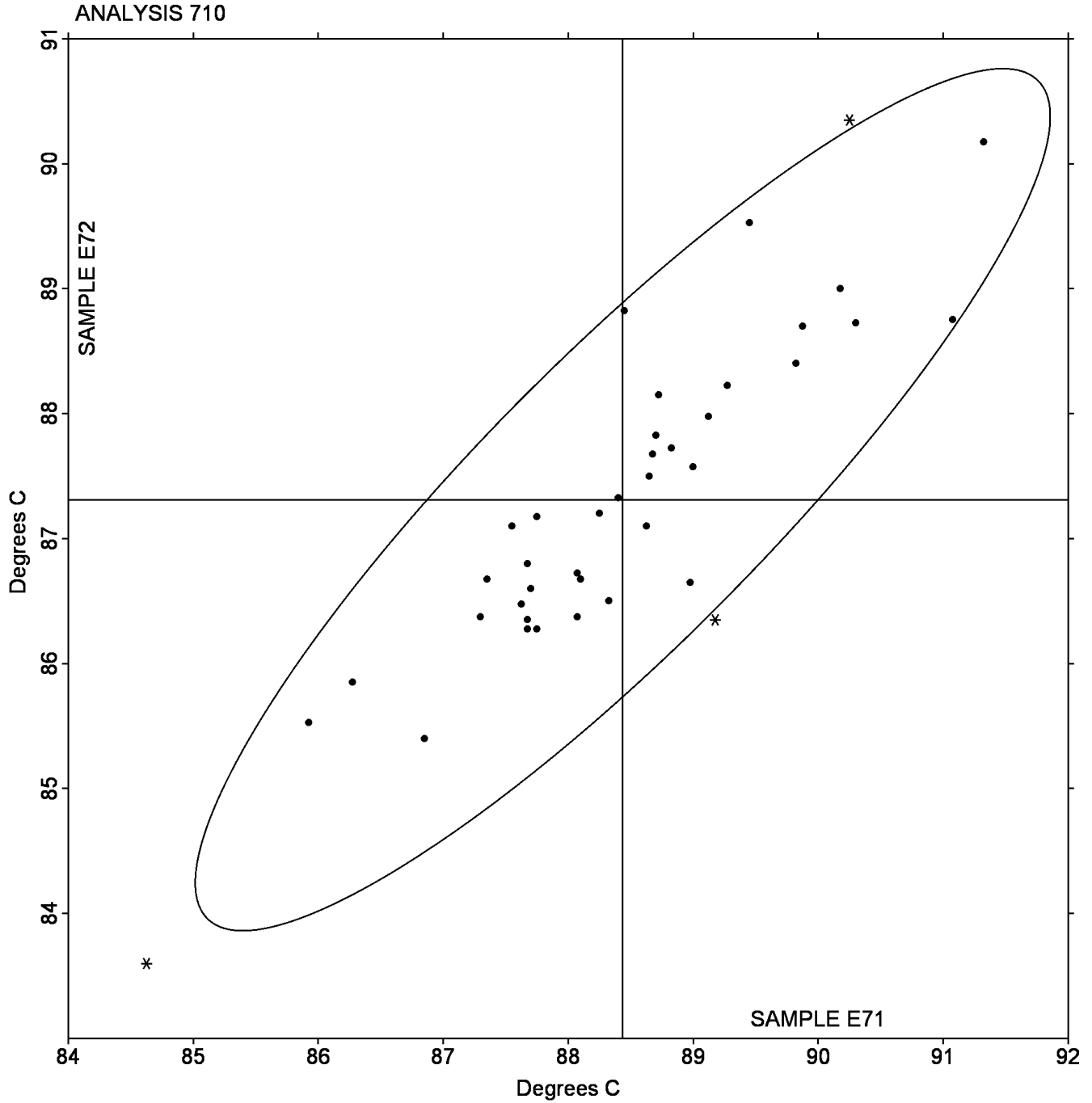
ZZ8PXX (X) - Data for both samples are low.

Instrument Code List as Reported by the Labs

- | | |
|---|------------------------------------|
| (AT) - Atlas | (CE) - Ceast |
| (CS) - CSI | (DN) - DYNISCO |
| (EM) - Empire-Vortex | (RO) - Rosand |
| (RR) - Ray-Ran | (TO) - Tinius Olsen |
| (TY) - Toyoseiki | (XA) - Special In-House Instrument |
| (XX) - Instrument manufacturer not specified by lab | |

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

Grand Mean Sample E71: 88.436 Degrees C Grand Mean Sample E72: 87.312 Degrees C



Plastics Interlaboratory Testing Program
Analysis 711
Deflection Temp. Under Flexural Load (0.455 MPa) - Degrees C

WebCode	Data Flag	Sample G71			Sample G72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1TRJ59		95.0	-1.0	-0.43	85.1	-0.2	-0.11	XX
23M2RA		95.5	-0.5	-0.22	85.8	0.4	0.25	CE
2NQTU4		93.9	-2.0	-0.86	84.7	-0.7	-0.39	CE
5TGYQV		96.0	0.1	0.02	83.3	-2.0	-1.16	AT
6KSEC1		92.6	-3.3	-1.41	84.3	-1.0	-0.59	TO
744TT1		90.9	-5.0	-2.13	83.7	-1.7	-0.97	XX
973DQJ		98.5	2.5	1.06	89.0	3.7	2.14	XX
ARDC1S		99.1	3.1	1.30	87.8	2.4	1.40	AT
B8XDN7		96.5	0.5	0.23	86.2	0.9	0.51	TO
BLTWK7		94.3	-1.7	-0.72	83.6	-1.7	-1.01	XX
DZLAVK		94.5	-1.5	-0.64	83.7	-1.7	-0.97	TO
E3MTEY		97.9	1.9	0.80	85.9	0.6	0.35	TO
GNB5XM	X	114.8	18.8	7.95	102.6	17.3	9.99	RR
H5LKFE	X	94.6	-1.4	-0.59	114.7	29.4	16.99	TO
HDFQ7V		96.8	0.9	0.36	85.4	0.0	0.02	CE
HV8AC9		95.9	0.0	-0.02	85.6	0.3	0.16	CE
S9E3US		100.4	4.4	1.85	87.8	2.5	1.42	TO
TGVTFB		94.4	-1.5	-0.65	82.4	-3.0	-1.72	TO
VMNNF7		97.6	1.6	0.69	85.7	0.4	0.22	CE
YQ6QLW		97.8	1.8	0.76	86.1	0.8	0.45	CE

Summary Statistics			
Grand Means	95.97	Degrees C	85.32
			Degrees C
Std Dev Btwn Labs	2.37	Degrees C	1.73
			Degrees C
Statistics based on 18 of 20 reporting participants			

Sample G71: PP & Sample G72: PP

Comments on assigned Data Flags for Test #711

GNB5XM (X) - Data for both samples are low.

H5LKFE (X) - Inconsistent in testing between samples, data for Sample G72 are high.

Plastics Interlaboratory Testing Program
Analysis 711
Deflection Temp. Under Flexural Load (0.455 MPa) - Degrees C

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(RR) - Ray-Ran

(TO) - Tinius Olsen

(XX) - Instrument manufacturer not specified by lab

Analysis 712

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

WebCode	Data Flag	Sample N71			Sample N72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1YZDUX		82.90	0.68	0.85	82.98	1.00	0.99	XX
47WXQ4		82.00	-0.22	-0.28	81.85	-0.12	-0.12	AT
6B2KNJ		82.90	0.68	0.85	82.98	1.00	0.99	AT
6CWARC		82.28	0.05	0.07	82.08	0.10	0.10	XX
6LPRDV	X	79.38	-2.85	-3.59	79.31	-2.66	-2.63	CE
8Y9A34		80.90	-1.32	-1.67	80.13	-1.85	-1.82	CE
8ZRFML		82.65	0.43	0.54	82.45	0.48	0.47	TY
BN2PC7		82.05	-0.17	-0.22	82.35	0.38	0.37	CE
BX7LL3		83.23	1.00	1.26	83.38	1.40	1.38	AT
C3K4JH		83.38	1.15	1.45	83.23	1.25	1.23	CE
DLA6QY		81.30	-0.92	-1.16	80.73	-1.25	-1.23	TO
FSANEG		83.40	1.18	1.49	83.68	1.70	1.68	XX
GSSJRM		82.10	-0.12	-0.15	81.80	-0.17	-0.17	CE
J2JBX5		81.80	-0.42	-0.53	81.63	-0.35	-0.34	XX
JS91B7		81.60	-0.62	-0.78	81.78	-0.20	-0.20	DN
JTDCEW		82.88	0.65	0.82	82.75	0.78	0.76	AT
K2TU3U		81.23	-1.00	-1.26	80.88	-1.10	-1.08	TO
K438UE		81.95	-0.27	-0.34	81.60	-0.37	-0.37	AT
LQSMQH		83.63	1.40	1.77	83.25	1.28	1.26	AT
PEPET9		83.53	1.30	1.64	83.58	1.60	1.58	TO
PGYTKU		82.48	0.25	0.32	82.60	0.63	0.62	CE
T4N6SM		82.83	0.60	0.76	82.10	0.13	0.12	AT
TG94S2		82.03	-0.20	-0.25	81.65	-0.32	-0.32	CE
TK7VU2		82.75	0.53	0.67	82.28	0.30	0.30	AT
UZ8Z2S		82.78	0.55	0.70	82.15	0.18	0.17	RO
W37QQF		82.40	0.18	0.22	82.48	0.50	0.49	CF
W4BNGC		82.43	0.20	0.26	81.93	-0.05	-0.05	CE
WX2ZAG	*	81.53	-0.70	-0.88	80.15	-1.82	-1.80	CE
XAHVXL		80.60	-1.62	-2.05	79.65	-2.32	-2.29	XX
XF5VXZ		80.90	-1.32	-1.67	80.25	-1.72	-1.70	XX
XQY9E7		81.83	-0.40	-0.50	81.58	-0.40	-0.39	TO
XV4NVN		82.25	0.03	0.04	82.00	0.03	0.03	XX

Analysis 712

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

WebCode	Data Flag	Sample N71			Sample N72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XW1DAX		81.10	-1.12	-1.42	80.98	-1.00	-0.98	AT
YFLF19		82.00	-0.22	-0.28	82.03	0.05	0.05	TO
YVKGGC		82.00	-0.22	-0.28	82.28	0.30	0.30	CE

Summary Statistics

Grand Means

82.222 Degrees C

81.974 Degrees C

Std Dev Btwn Labs

0.793 Degrees C

1.015 Degrees C

Statistics based on 34 of 35 reporting participants

Sample N71: ABS & Sample N72: ABS

Comments on assigned Data Flags for Test #712

6LPRDV (X) - Inconsistent in testing between samples, data for Sample N71 are low.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(CF) - Coesfeld

(DN) - DYNISCO

(RO) - Rosand

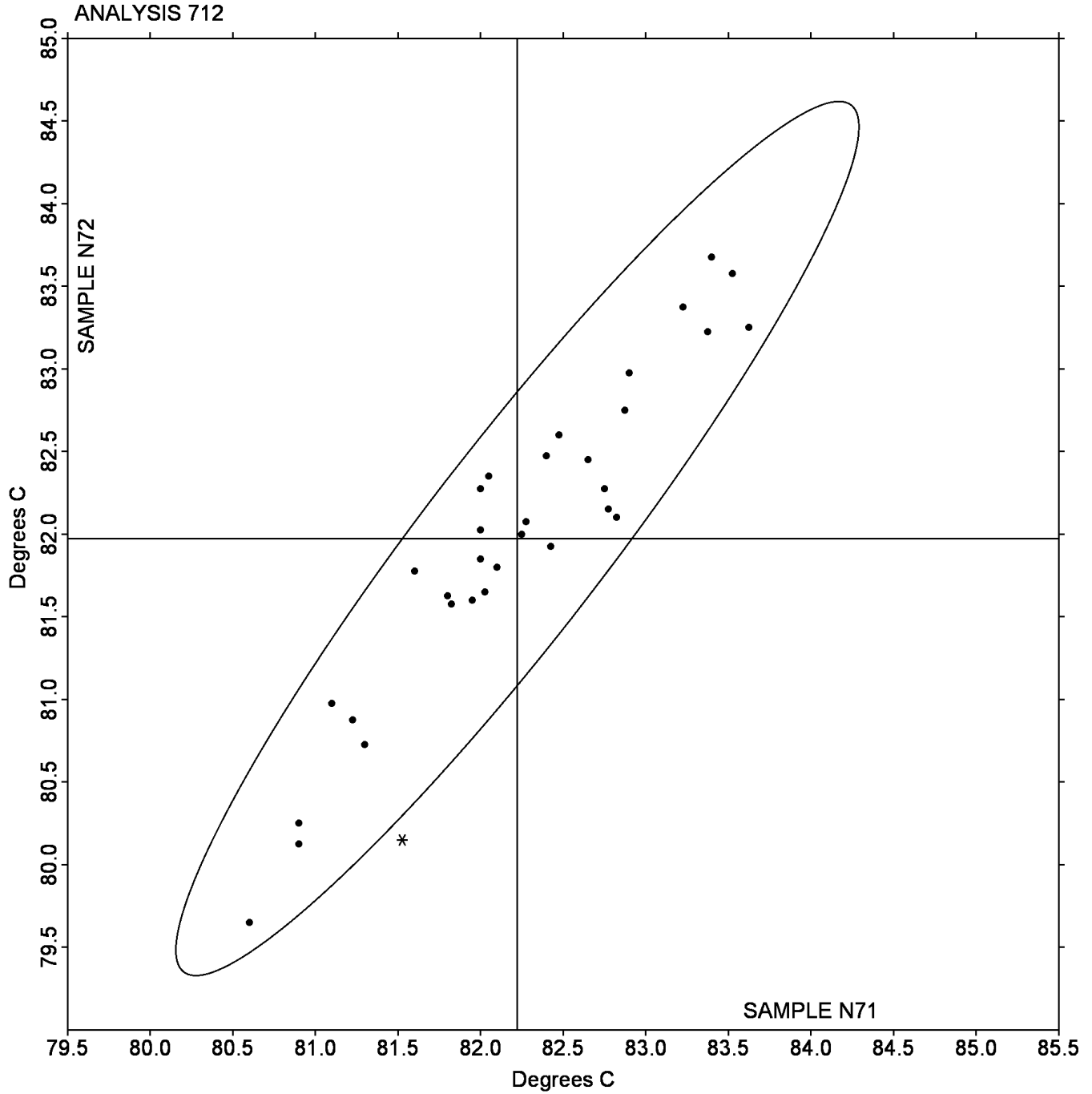
(TO) - Tinius Olsen

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample N71: 82.222 Degrees C Grand Mean Sample N72: 81.974 Degrees C



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

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

WebCode	Data Flag	Sample H71			Sample H72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
18YN68		101.48	1.12	1.13	101.75	1.12	1.08	XX
2LCQUC		100.13	-0.23	-0.23	100.47	-0.16	-0.15	AT
5EFMDQ		101.17	0.80	0.81	101.30	0.67	0.65	AT
5GPF9U	X	108.20	7.84	7.94	107.67	7.04	6.79	RR
6AGR8V		98.68	-1.68	-1.70	99.17	-1.46	-1.41	AT
8CDKW3		99.65	-0.71	-0.72	99.78	-0.84	-0.81	XX
8DWRTU		102.25	1.89	1.91	102.67	2.04	1.97	TY
9GST3M		101.00	0.64	0.64	101.33	0.71	0.68	CE
9QJTF7		98.82	-1.55	-1.57	99.17	-1.46	-1.41	CE
9TFQDC		101.08	0.71	0.72	101.58	0.95	0.91	CF
9TVDWL		99.53	-0.83	-0.84	99.78	-0.84	-0.81	CE
F97PVF		102.15	1.79	1.81	102.45	1.82	1.76	CE
GHCHJT		100.57	0.20	0.21	100.77	0.14	0.14	CE
HRFSRJ		98.27	-2.10	-2.13	98.50	-2.13	-2.05	TO
KS88SB		100.32	-0.05	-0.05	100.65	0.02	0.02	TY
KW6MK9		99.92	-0.45	-0.45	99.85	-0.78	-0.75	XX
MAW9YY		99.82	-0.55	-0.55	99.92	-0.71	-0.68	DN
QDB8Z5		100.73	0.37	0.37	100.68	0.06	0.05	XX
S1FBXA		100.40	0.04	0.04	100.78	0.16	0.15	CE
SMTKZM	*	101.60	1.24	1.25	102.47	1.84	1.78	TO
SV9153		100.58	0.22	0.22	101.13	0.51	0.49	CE
T53ZUM		99.48	-0.88	-0.89	99.68	-0.94	-0.91	TO
TZPUVM		100.92	0.55	0.56	101.20	0.57	0.55	AT
U88P93	*	100.07	-0.30	-0.30	99.65	-0.98	-0.94	XX
UGX14P		100.30	-0.06	-0.06	100.62	-0.01	-0.01	CE
VFJ9QJ		99.47	-0.90	-0.91	99.86	-0.76	-0.74	CE
XQN1PQ		101.52	1.15	1.17	101.82	1.19	1.15	CE
YDEDCC		99.60	-0.76	-0.77	99.93	-0.69	-0.67	CE
Z6HUW1		101.77	1.40	1.42	101.77	1.14	1.10	TO
ZK1KTH		100.33	-0.03	-0.03	100.55	-0.08	-0.07	RO
ZYSLXC		100.08	-0.28	-0.28	100.22	-0.41	-0.40	AT
ZZ7716		99.60	-0.76	-0.77	99.93	-0.69	-0.67	TO

Analysis 715
Vicat Softening Temperature (Rate A)

Summary Statistics

Grand Means	100.364 Degrees C	100.626 Degrees C
Std Dev Btwn Labs	0.987 Degrees C	1.037 Degrees C
Statistics based on 31 of 32 reporting participants		

Sample H71: HIPS & Sample H72: HIPS

Comments on assigned Data Flags for Test #715

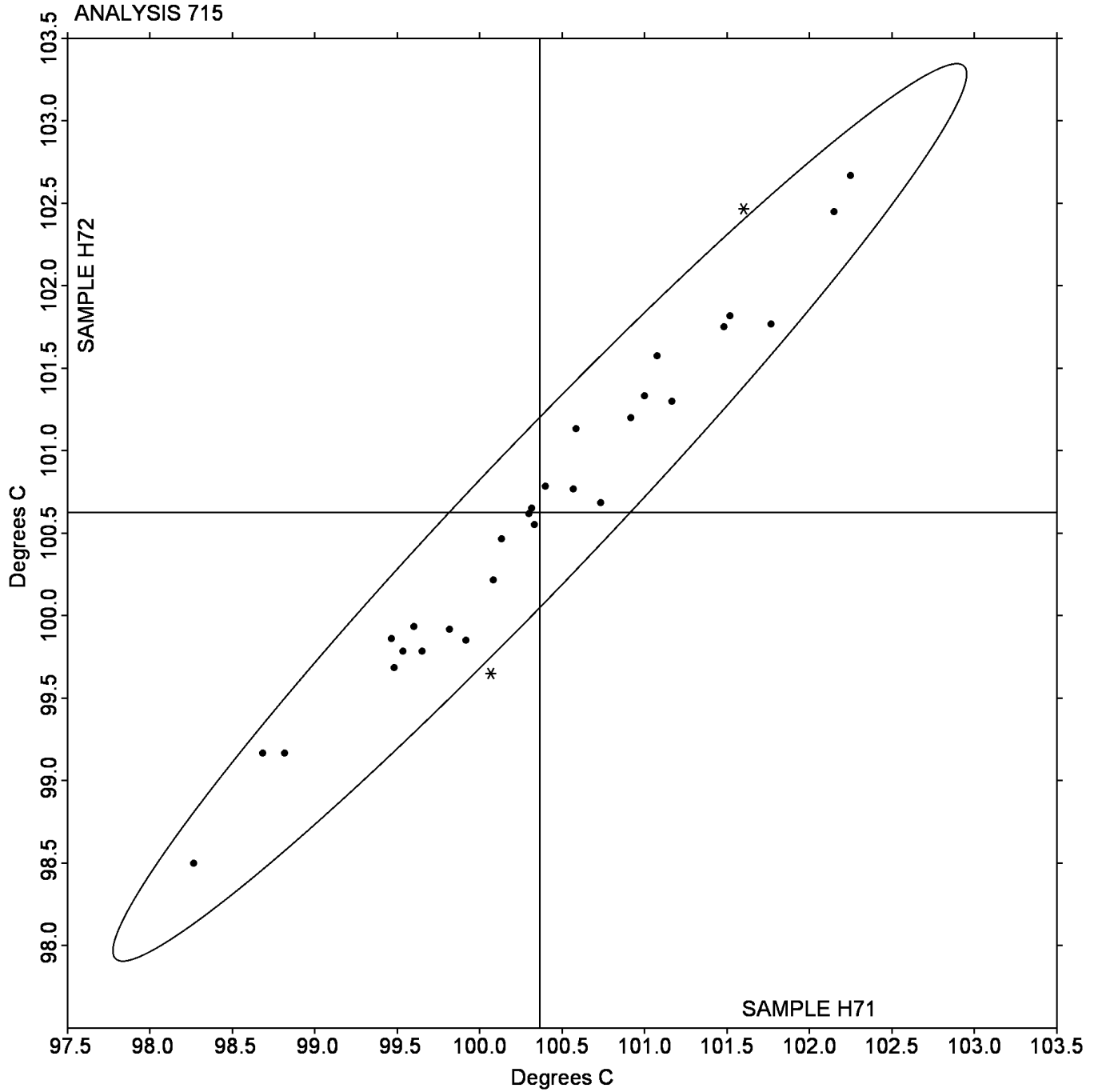
5GPF9U (X) - Data for both samples are high.

Instrument Code List as Reported by the Labs

(AT) - Atlas	(CE) - Ceast
(CF) - Coesfeld	(DN) - DYNISCO
(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 H71: 100.36 Degrees C Grand Mean Sample H72: 100.63 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 R71			Sample R72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2T8E6U	X	102.60	0.22	0.20	101.83	-0.80	-0.76	XX
4KQ7LQ		102.07	-0.32	-0.29	102.13	-0.50	-0.47	XX
55N12C		102.52	0.13	0.12	102.25	-0.38	-0.36	DN
58C9AT		103.60	1.22	1.10	103.52	0.88	0.84	TO
5QCBRX		102.70	0.32	0.29	103.08	0.45	0.43	CE
69WN5F		103.27	0.89	0.80	102.97	0.33	0.32	RO
7PP9X8		101.35	-1.03	-0.94	101.73	-0.90	-0.85	XX
DHDW2Y		102.70	0.32	0.29	102.90	0.27	0.25	AT
DHRS5H		103.83	1.45	1.31	104.00	1.37	1.29	CE
E69UUY		101.55	-0.83	-0.76	101.77	-0.87	-0.82	XX
FXS69R		101.43	-0.95	-0.86	101.73	-0.90	-0.85	TO
GX8DZD		100.18	-2.20	-1.99	100.60	-2.03	-1.92	CE
J12FYR		102.67	0.28	0.26	103.03	0.40	0.38	CE
JWN8PT		101.45	-0.93	-0.85	101.70	-0.93	-0.88	CE
KQ4BQV		100.65	-1.73	-1.57	100.88	-1.75	-1.66	CE
MCLFG9		102.97	0.58	0.53	103.23	0.60	0.57	XX
N4WNS3		102.58	0.20	0.18	102.98	0.35	0.33	AT
NBJS1C	X	113.05	10.67	9.66	112.03	9.40	8.90	RR
NHT6GU		102.42	0.03	0.03	102.52	-0.12	-0.11	RO
PCK7LX		102.07	-0.32	-0.29	102.48	-0.15	-0.14	CE
PGS9CB		100.13	-2.25	-2.04	100.70	-1.93	-1.83	TO
Q7NNU4		104.32	1.93	1.75	104.77	2.13	2.02	XX
R85RNN		103.70	1.32	1.19	103.98	1.35	1.28	AT
SN26LW		103.50	1.12	1.01	103.72	1.08	1.03	CE
U5HHDK	X	88.75	-13.63	-12.34	89.93	-12.70	-12.02	TO
V9VPKH		101.72	-0.67	-0.60	102.09	-0.54	-0.51	CE
WX3FJV		103.40	1.02	0.92	103.77	1.13	1.07	XX
XQELXC		103.12	0.73	0.66	103.33	0.70	0.66	XX
Z7RJ4Y		102.10	-0.28	-0.26	102.57	-0.07	-0.06	CE

Analysis 716
Vicat Softening Temperature (Rate B)

Summary Statistics

Grand Means

102.384 Degrees C

102.632 Degrees C

Std Dev Btwn Labs

1.105 Degrees C

1.057 Degrees C

Statistics based on 26 of 29 reporting participants

Sample R71: HIPS & Sample R72: HIPS

Comments on assigned Data Flags for Test #716

2T8E6U (X) - Inconsistent in testing between samples.

NBJS1C (X) - Data for both samples are high.

U5HHDK (X) - Data for both samples are low.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CE) - Ceast

(DN) - DYNISCO

(RO) - Rosand

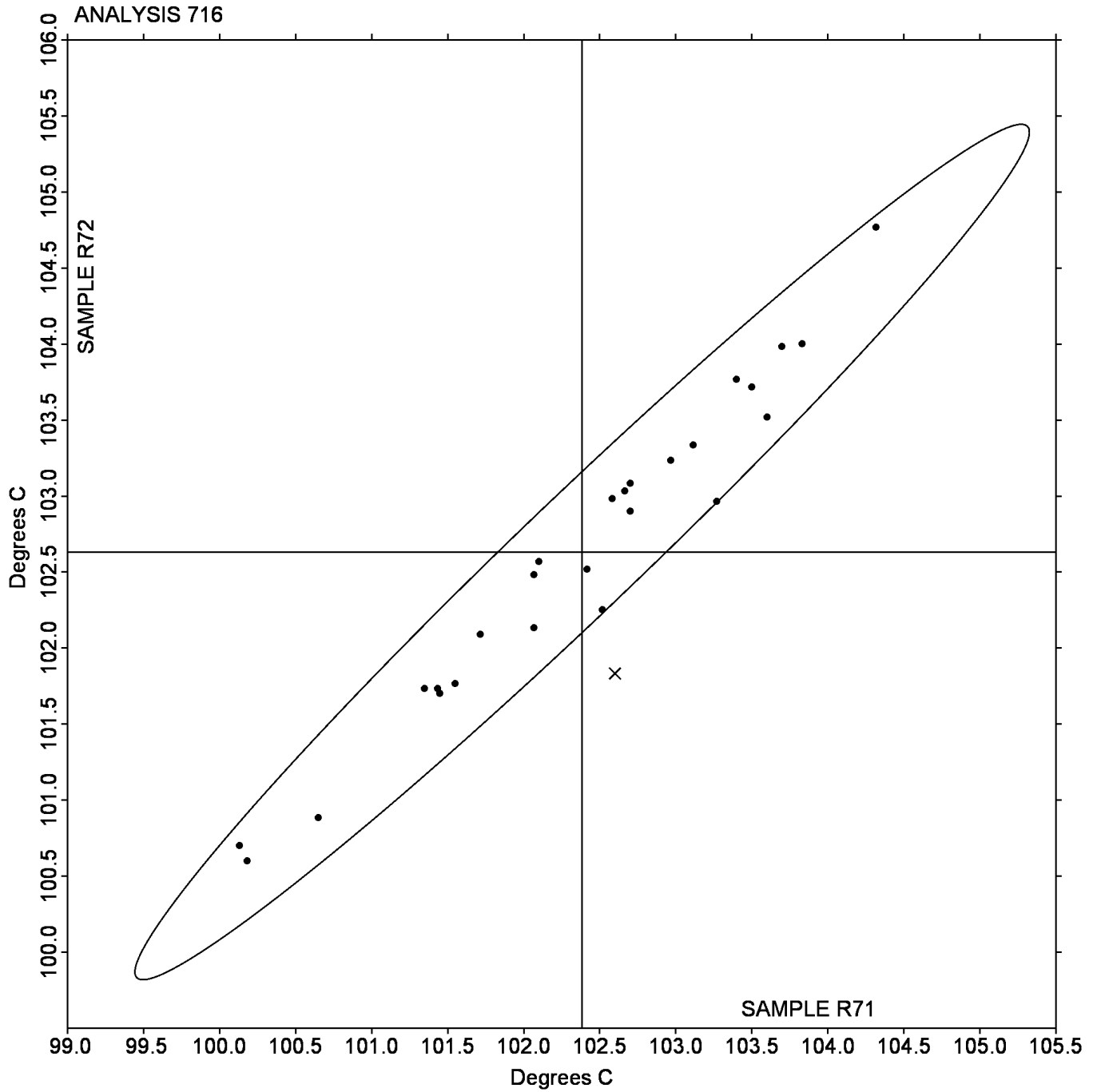
(RR) - Ray-Ran

(TO) - Tinius Olsen

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample R71: 102.38 Degrees C Grand Mean Sample R72: 102.63 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 X71			Sample X72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1DMUH2		6.60	0.11	0.45	5.95	0.01	0.05	TO
1MJ6WP		6.25	-0.24	-0.97	5.65	-0.29	-1.30	DY
26RM2M		6.26	-0.23	-0.93	5.99	0.05	0.24	XX
28JGMC		6.53	0.04	0.17	5.98	0.04	0.17	CE
2B1GM5		6.45	-0.04	-0.16	6.00	0.06	0.28	KA
2CLS6X		6.65	0.16	0.63	6.19	0.25	1.12	XX
2UTS7E		6.55	0.06	0.25	5.95	0.01	0.05	TO
31GN9U		6.27	-0.22	-0.89	5.85	-0.09	-0.42	DY
35KXKJ		6.55	0.06	0.25	6.07	0.13	0.60	TO
3W28J3		6.54	0.06	0.22	6.00	0.06	0.28	TO
421JUJ		6.60	0.11	0.45	6.05	0.11	0.51	TO
44CH3A		6.42	-0.07	-0.28	6.08	0.14	0.64	XX
56GVJU	*	6.60	0.11	0.43	5.73	-0.21	-0.96	GO
5RK82M	*	6.37	-0.12	-0.50	6.13	0.19	0.86	XX
5VG7NS		6.55	0.06	0.25	5.85	-0.09	-0.40	TO
618EKC		6.75	0.26	1.06	6.10	0.16	0.73	GO
62ZB7L		6.68	0.19	0.79	6.05	0.11	0.51	KA
67TSLC		6.49	0.00	-0.02	6.03	0.09	0.42	GO
68A89Z		6.94	0.45	1.85	6.11	0.17	0.79	TO
6BP2TD		6.54	0.05	0.21	5.91	-0.03	-0.15	TO
6UMBMH		6.50	0.01	0.04	5.90	-0.04	-0.17	TO
78FDL1		6.73	0.24	0.98	6.05	0.12	0.53	TO
7DM3T8		6.35	-0.14	-0.57	5.70	-0.24	-1.07	TO
7NX6DD		6.20	-0.29	-1.18	5.55	-0.39	-1.75	CS
7Y4RDN	X	5.70	-0.79	-3.21	5.20	-0.74	-3.33	GO
8JHJ9D		6.85	0.36	1.47	6.30	0.36	1.64	AT
91JGFF		6.10	-0.39	-1.58	5.55	-0.39	-1.75	GO
92QM9Q		6.60	0.11	0.45	6.00	0.06	0.28	KA
9A1C39		6.65	0.16	0.65	6.05	0.11	0.51	TO
9AZGJ5		6.44	-0.05	-0.20	5.89	-0.05	-0.24	GO
9F6JD1		6.27	-0.22	-0.91	5.90	-0.04	-0.19	TO
9T64EJ		6.63	0.14	0.55	6.09	0.15	0.66	WZ

Analysis 750

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

WebCode	Data Flag	Sample X71			Sample X72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
AA45PN		6.70	0.21	0.86	6.10	0.16	0.73	TO
AHEMRW		6.65	0.16	0.65	6.04	0.10	0.46	WZ
AR6HTD		6.25	-0.24	-0.99	5.57	-0.37	-1.66	TO
BQBS6J		6.65	0.16	0.65	6.00	0.06	0.28	TO
BS2816	X	6.90	0.41	1.65	5.81	-0.13	-0.58	TO
BYFMGB		6.58	0.09	0.37	6.13	0.19	0.85	TO
CG55AN		6.05	-0.44	-1.77	5.67	-0.27	-1.20	KA
CLS1TT		6.45	-0.04	-0.16	5.95	0.01	0.05	TO
CU9V43	X	5.69	-0.80	-3.25	5.87	-0.07	-0.31	KA
D6PZ74		6.10	-0.39	-1.58	5.75	-0.19	-0.85	DY
DFGJ2Y		6.49	0.01	0.02	5.91	-0.03	-0.12	XX
DH4QAE		6.84	0.35	1.41	6.34	0.40	1.82	TO
DJJQCP	X	5.20	-1.29	-5.24	4.75	-1.19	-5.36	XX
DPF565		5.95	-0.54	-2.19	5.64	-0.30	-1.37	TO
E179WG		6.96	0.47	1.93	6.33	0.39	1.78	CS
E64LG5		6.65	0.16	0.65	6.05	0.11	0.51	TO
E7J1R1		6.43	-0.06	-0.24	5.88	-0.06	-0.26	KA
EH4LJW		6.61	0.12	0.47	6.00	0.06	0.28	CE
ESQCWU		6.30	-0.19	-0.77	5.95	0.01	0.05	TO
EUK8UJ		6.15	-0.34	-1.38	5.70	-0.24	-1.07	WZ
EZJJFW		6.65	0.16	0.65	6.25	0.31	1.41	TO
F2Q6QU		6.75	0.26	1.06	6.20	0.26	1.18	TO
F6NM49		6.85	0.36	1.46	6.19	0.25	1.14	TO
G9N5NN		6.85	0.36	1.47	6.25	0.31	1.41	AT
GFQV6Y		6.21	-0.28	-1.14	5.75	-0.19	-0.87	KA
GL1AW2		6.64	0.15	0.63	5.98	0.04	0.20	DY
GSR RTE		6.40	-0.09	-0.36	6.05	0.11	0.51	TO
HXR3WK	X	5.45	-1.04	-4.23	5.40	-0.54	-2.43	GO
J8FUUN	*	7.13	0.64	2.59	6.55	0.61	2.76	XX
JHLU9G		6.90	0.41	1.67	6.35	0.41	1.86	DY
L4Y7E9		6.55	0.06	0.25	5.85	-0.09	-0.40	KA
LA1T9A		6.88	0.39	1.59	6.27	0.33	1.48	KA

Analysis 750

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

WebCode	Data Flag	Sample X71			Sample X72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
M412P5		6.65	0.16	0.65	6.16	0.22	0.98	CS
METCRZ		6.55	0.06	0.25	5.81	-0.13	-0.58	TO
MKKJ98	*	6.10	-0.39	-1.58	5.40	-0.54	-2.43	TO
MN349N		6.49	0.00	-0.02	5.95	0.01	0.03	GO
MU1KF2		6.60	0.11	0.45	5.90	-0.04	-0.17	TO
MXK3D7		6.45	-0.04	-0.18	6.08	0.14	0.62	TO
MY6G9N		6.10	-0.39	-1.58	5.80	-0.14	-0.62	TO
NA713U		6.45	-0.04	-0.18	5.80	-0.13	-0.60	CE
NPDCVV		6.10	-0.39	-1.58	5.60	-0.34	-1.53	GO
PCA1WZ		6.45	-0.04	-0.16	5.80	-0.14	-0.62	KA
PDKNC7	X	12.73	6.24	25.36	11.73	5.79	26.16	DY
PEMVVX		6.38	-0.11	-0.44	5.86	-0.08	-0.35	WZ
PJ6HWY		6.50	0.01	0.04	6.10	0.16	0.73	TO
PL78XY		6.45	-0.04	-0.16	5.95	0.01	0.05	TO
PLEPHZ		6.37	-0.12	-0.48	5.75	-0.19	-0.86	DY
Q7AUFP		6.56	0.07	0.29	6.05	0.12	0.52	XX
Q7SV7X		6.44	-0.05	-0.21	5.80	-0.14	-0.62	TO
RALNR7		6.17	-0.32	-1.32	5.69	-0.25	-1.14	TM
RD14H5		6.17	-0.32	-1.32	5.91	-0.03	-0.15	TO
RTJ6HN		6.06	-0.43	-1.75	5.53	-0.41	-1.84	XX
RVP31Q		6.55	0.06	0.25	5.85	-0.09	-0.40	TO
SHZ2W9		6.50	0.01	0.04	5.95	0.01	0.05	TO
SP8BRA	X	5.45	-1.04	-4.23	5.85	-0.09	-0.40	TO
SPCHA6		6.28	-0.21	-0.87	5.77	-0.17	-0.78	HA
SVM9XG		6.15	-0.34	-1.38	5.65	-0.29	-1.30	TO
SZR3MU		6.55	0.06	0.25	6.20	0.26	1.18	TO
TG5JTM		6.84	0.35	1.43	6.12	0.18	0.80	KA
TNNYAY		6.00	-0.49	-1.99	5.40	-0.54	-2.43	TO
UM2CTN		6.75	0.26	1.06	5.95	0.01	0.05	TY
V69WHN	X	68.50	62.01	252.18	70.85	64.91	293.12	TO
V9HZJR		6.60	0.11	0.45	6.00	0.06	0.28	TO

Analysis 750

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

WebCode	Data Flag	Sample X71			Sample X72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
VNDEGZ	X	5.62	-0.87	-3.56	4.90	-1.04	-4.69	TO
W3A652		6.70	0.21	0.86	6.10	0.16	0.73	TO
WAPRYL		6.05	-0.44	-1.79	5.50	-0.44	-1.98	TO
WF9F7G		6.65	0.16	0.65	6.10	0.16	0.73	TO
WXG8DQ	X	3.92	-2.57	-10.45	3.87	-2.07	-9.34	DY
X1AUDS		6.80	0.31	1.26	6.15	0.21	0.96	TO
XNGK7M	X	6.71	0.22	0.88	5.51	-0.43	-1.93	KA
XVQHVH		6.55	0.06	0.25	5.90	-0.04	-0.17	TO
XYUANV	X	7.00	0.51	2.08	6.73	0.79	3.55	TO
XZ21ZZ	X	8.09	1.60	6.51	7.42	1.48	6.67	HA
YAML22		6.40	-0.09	-0.36	5.80	-0.14	-0.62	KA
YTDHEW	X	6.15	-0.34	-1.38	5.05	-0.89	-4.01	KA
YWXQ9Q		6.23	-0.26	-1.05	5.55	-0.39	-1.77	TO
Z9EL1T		6.65	0.16	0.65	6.05	0.11	0.51	TO
ZPX43V		6.20	-0.29	-1.18	5.79	-0.15	-0.69	TO

Summary Statistics

Grand Means

6.489 grams/10 mins

5.938 grams/10 mins

Std Dev Btwn Labs

0.246 grams/10 mins

0.221 grams/10 mins

Statistics based on 96 of 110 reporting participants

Sample X71: LDPE & Sample X72: LDPE

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

Comments on assigned Data Flags for Test #750

7Y4RDN (X) - Data for both samples are low.

BS2816 (X) - Inconsistent in testing between samples.

CU9V43 (X) - Inconsistent in testing between samples, data for Sample X71 are low.

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

HXR3WK (X) - Inconsistent in testing between samples, data for Sample X71 are low.

PDKNC7 (X) - Data for both samples are low.

SP8BRA (X) - Inconsistent in testing between samples, data for Sample X71 are low.

V69WHN (X) - Extreme data. Data appear to be off by a factor of 10.

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

WXG8DQ (X) - Data for both samples are low.

XNGK7M (X) - Inconsistent in testing between samples.

XYUANV (X) - Inconsistent in testing between samples, data for Sample X72 are high.

XZ21ZZ (X) - Data for both samples are high.

YTDHEW (X) - Inconsistent in testing between samples, data for Sample X72 are low.

Instrument Code List as Reported by the Labs

(AT) - Atlas

(CS) - CSI

(GO) - Gottfert

(KA) - Kayeness

(TO) - Tinius Olsen

(WZ) - Zwick

(CE) - Ceast

(DY) - Dynisco

(HA) - Haake

(TM) - TMI

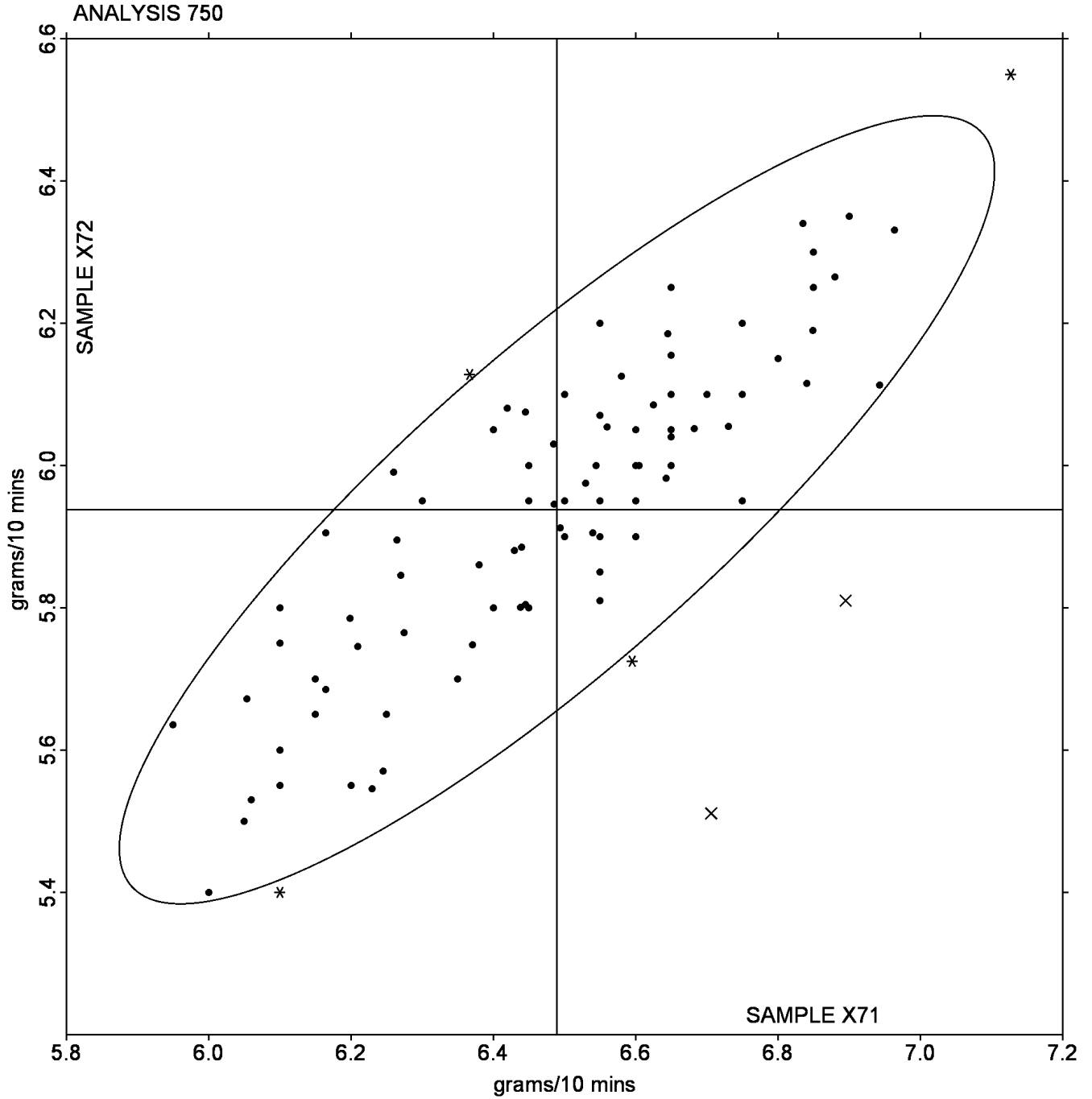
(TY) - Toyoseiki Seisakusho

(XX) - Instrument manufacturer not specified by lab

Analysis 750

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

Grand Mean Sample X71: 6.4893 grams/10 mins Grand Mean Sample X72: 5.9378 grams/10 mins



Plastics Interlaboratory Testing Program

Analysis 718

Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T71			Sample T72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
15CWTS		1.04553	0.00048	0.24	1.04657	0.00078	0.38	XX
1NE58Q		1.04417	-0.00089	-0.45	1.04557	-0.00022	-0.11	XX
1XQ7TQ		1.04233	-0.00272	-1.39	1.04200	-0.00379	-1.84	XX
1YLRUW		1.04267	-0.00239	-1.22	1.04267	-0.00312	-1.52	XX
28FV93		1.04587	0.00081	0.41	1.04717	0.00138	0.67	XX
2FTLDP		1.04567	0.00061	0.31	1.04633	0.00055	0.27	XX
2GQBVJ		1.04737	0.00231	1.18	1.04820	0.00241	1.18	XX
2MG88U		1.04790	0.00284	1.45	1.04883	0.00305	1.48	XX
2U5J6X		1.04647	0.00141	0.72	1.04740	0.00161	0.79	XX
34BT1T		1.04533	0.00028	0.14	1.04600	0.00021	0.10	XX
3KAJMH		1.04160	-0.00346	-1.76	1.04307	-0.00272	-1.32	XX
3Q4EUG		1.04613	0.00108	0.55	1.04683	0.00105	0.51	XX
3T2WT4		1.04687	0.00181	0.92	1.04783	0.00205	1.00	XX
3XYJLX		1.04713	0.00208	1.06	1.04803	0.00225	1.09	XX
4F9R1Z		1.04623	0.00118	0.60	1.04677	0.00098	0.48	XX
4ZTCKE		1.04737	0.00231	1.18	1.04790	0.00211	1.03	XX
6839SJ		1.04563	0.00058	0.29	1.04723	0.00145	0.70	XX
6VB9Q2		1.04383	-0.00122	-0.62	1.04500	-0.00079	-0.38	XX
6VFSQJ		1.04190	-0.00316	-1.61	1.04320	-0.00259	-1.26	XX
6Y3EER		1.04293	-0.00212	-1.08	1.04313	-0.00265	-1.29	XX
75RM5J	X	1.02900	-0.01606	-8.19	1.03233	-0.01345	-6.55	XX
76WPF9		1.04243	-0.00262	-1.34	1.04527	-0.00052	-0.25	XX
7FZ2G9		1.04660	0.00154	0.79	1.04650	0.00071	0.35	XX
7HBXK9		1.04657	0.00151	0.77	1.04687	0.00108	0.53	XX
7NEQ9Q	X	1.03667	-0.00839	-4.28	1.03860	-0.00719	-3.50	XX
89VSWG		1.04557	0.00051	0.26	1.04613	0.00035	0.17	XX
912T8G		1.04623	0.00118	0.60	1.04920	0.00341	1.66	XX
9MU5KS		1.04693	0.00188	0.96	1.04710	0.00131	0.64	XX
9WPPEY		1.04433	-0.00072	-0.37	1.04443	-0.00135	-0.66	XX
A3ADM9		1.04800	0.00294	1.50	1.04800	0.00221	1.08	XX
ATRFYV		1.04770	0.00264	1.35	1.04597	0.00018	0.09	XX
AZLKE2		1.04597	0.00091	0.46	1.04507	-0.00072	-0.35	XX

Plastics Interlaboratory Testing Program

Analysis 718

Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T71			Sample T72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
CXVDN8		1.04713	0.00208	1.06	1.04893	0.00315	1.53	XX
D2T6EA		1.04343	-0.00162	-0.83	1.04393	-0.00185	-0.90	XX
DQKUEF		1.04693	0.00188	0.96	1.04540	-0.00039	-0.19	XX
DQSDGW	*	1.04013	-0.00492	-2.51	1.04033	-0.00545	-2.66	XX
E7XCC1		1.04577	0.00071	0.36	1.04670	0.00091	0.44	XX
EJUHEY		1.04080	-0.00426	-2.17	1.04173	-0.00405	-1.97	XX
EP3796		1.04433	-0.00072	-0.37	1.04767	0.00188	0.92	XX
F71XT7		1.04527	0.00021	0.11	1.04573	-0.00005	-0.03	XX
FK55NH		1.04733	0.00228	1.16	1.04833	0.00255	1.24	XX
FNTX1R		1.04733	0.00228	1.16	1.04803	0.00225	1.09	XX
G6TZWN		1.04273	-0.00232	-1.19	1.04250	-0.00329	-1.60	XX
GNX6UK		1.04280	-0.00226	-1.15	1.04353	-0.00225	-1.10	XX
GV2XKV		1.04457	-0.00049	-0.25	1.04560	-0.00019	-0.09	XX
HKCXHJ		1.04587	0.00081	0.41	1.04763	0.00185	0.90	XX
J6STZD		1.04303	-0.00202	-1.03	1.04457	-0.00122	-0.59	XX
JD1Z5A		1.04647	0.00142	0.72	1.04658	0.00080	0.39	XX
JG7U77		1.04510	0.00004	0.02	1.04640	0.00061	0.30	XX
JGT8QJ		1.04657	0.00151	0.77	1.04790	0.00211	1.03	XX
K4RG2Y		1.04660	0.00154	0.79	1.04593	0.00015	0.07	XX
K52TRA	*	1.04563	0.00058	0.29	1.04310	-0.00269	-1.31	XX
K6TECR		1.04647	0.00141	0.72	1.04783	0.00205	1.00	XX
KDRBT2		1.04400	-0.00106	-0.54	1.04433	-0.00145	-0.71	XX
KT14C1		1.04527	0.00021	0.11	1.04733	0.00155	0.75	XX
LHDV6B		1.04517	0.00011	0.06	1.04550	-0.00029	-0.14	XX
LM9H2K	*	1.04033	-0.00472	-2.41	1.03967	-0.00612	-2.98	XX
LPHLWW	*	1.03967	-0.00539	-2.75	1.04200	-0.00379	-1.84	XX
M7FBFW		1.04567	0.00061	0.31	1.04833	0.00255	1.24	XX
MCK4K1		1.04333	-0.00172	-0.88	1.04667	0.00088	0.43	XX
MLGVB3		1.04450	-0.00056	-0.28	1.04413	-0.00165	-0.80	XX
MLKEDX		1.04540	0.00034	0.17	1.04567	-0.00012	-0.06	XX
MVL5HS		1.04390	-0.00116	-0.59	1.04487	-0.00092	-0.45	XX
N36TED		1.04337	-0.00169	-0.86	1.04550	-0.00029	-0.14	XX

Plastics Interlaboratory Testing Program

Analysis 718

Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T71			Sample T72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
N72UN3		1.04377	-0.00129	-0.66	1.04673	0.00095	0.46	XX
P46BNF		1.04320	-0.00186	-0.95	1.04533	-0.00045	-0.22	XX
P74JNY		1.04667	0.00161	0.82	1.04863	0.00285	1.39	XX
PQRQ8B		1.04410	-0.00096	-0.49	1.04397	-0.00182	-0.89	XX
QMLL71		1.04620	0.00114	0.58	1.04650	0.00071	0.35	XX
QSA6VP	X	1.04233	-0.00272	-1.39	1.03890	-0.00689	-3.35	XX
QUC5VV		1.04573	0.00068	0.34	1.04603	0.00025	0.12	XX
QX5VXE		1.04590	0.00084	0.43	1.04590	0.00011	0.06	XX
R8DQYB	X	1.02640	-0.01866	-9.52	1.03116	-0.01462	-7.12	XX
RPXYQ8		1.04617	0.00111	0.57	1.04753	0.00175	0.85	XX
S882AZ		1.04800	0.00294	1.50	1.04740	0.00161	0.79	XX
SZ8N44		1.04430	-0.00076	-0.39	1.04477	-0.00102	-0.50	XX
T242ML		1.04453	-0.00052	-0.27	1.04653	0.00075	0.36	XX
U9WBCQ		1.04590	0.00084	0.43	1.04663	0.00085	0.41	XX
UH4Z1W		1.04653	0.00148	0.75	1.04513	-0.00065	-0.32	XX
UQW7BW		1.04783	0.00278	1.42	1.04760	0.00181	0.88	XX
UTT5BN		1.04700	0.00194	0.99	1.04800	0.00221	1.08	XX
V9UUN6	X	1.04827	0.00321	1.64	1.06730	0.02151	10.48	XX
VQM6DZ		1.04703	0.00198	1.01	1.04777	0.00198	0.96	XX
VUH7K3	X	1.04763	0.00258	1.31	1.04327	-0.00252	-1.23	XX
W68BEL		1.04100	-0.00406	-2.07	1.04367	-0.00212	-1.03	XX
WRGCSS		1.04587	0.00081	0.41	1.04537	-0.00042	-0.20	XX
WWLURZ		1.04620	0.00114	0.58	1.04700	0.00121	0.59	XX
XXH2UH		1.04500	-0.00006	-0.03	1.04500	-0.00079	-0.38	XX
XYU24B		1.04700	0.00194	0.99	1.04803	0.00225	1.09	XX
XZ45LG		1.04267	-0.00239	-1.22	1.04533	-0.00045	-0.22	XX
Y4C3C1		1.04340	-0.00166	-0.85	1.04427	-0.00152	-0.74	XX
YK1SAX	*	1.04380	-0.00126	-0.64	1.04127	-0.00452	-2.20	XX
YMWP6Y		1.04423	-0.00082	-0.42	1.04613	0.00035	0.17	XX
YNNX11		1.04600	0.00094	0.48	1.04670	0.00091	0.44	XX
YSMQDC		1.04273	-0.00232	-1.19	1.04323	-0.00255	-1.24	XX

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

WebCode	Data Flag	Sample T71			Sample T72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
YZZBW9		1.04650	0.00144	0.74	1.04720	0.00141	0.69	XX
Z764CA	*	1.04487	-0.00019	-0.10	1.04210	-0.00369	-1.79	XX
ZC6WHT		1.04776	0.00270	1.38	1.04798	0.00219	1.07	XX
ZWS9Q3		1.04233	-0.00272	-1.39	1.04373	-0.00205	-1.00	XX

Summary Statistics

Grand Means

1.045058 sp gr 23/23 C

1.045786 sp gr 23/23 C

Std Dev Btw Labs

0.001960 sp gr 23/23 C

0.002054 sp gr 23/23 C

Statistics based on 93 of 99 reporting participants

Sample T71: ABS & Sample T72: ABS

Comments on assigned Data Flags for Test #718

75RM5J (X) - Data for both samples are low.

7NEQ9Q (X) - Data for both samples are low. Possible Systematic Error.

QSA6VP (X) - Inconsistent in testing between samples, data for Sample T72 are low.

R8DQYB (X) - Data for both samples are low.

V9UUN6 (X) - Inconsistent in testing between samples, data for Sample T72 are high.

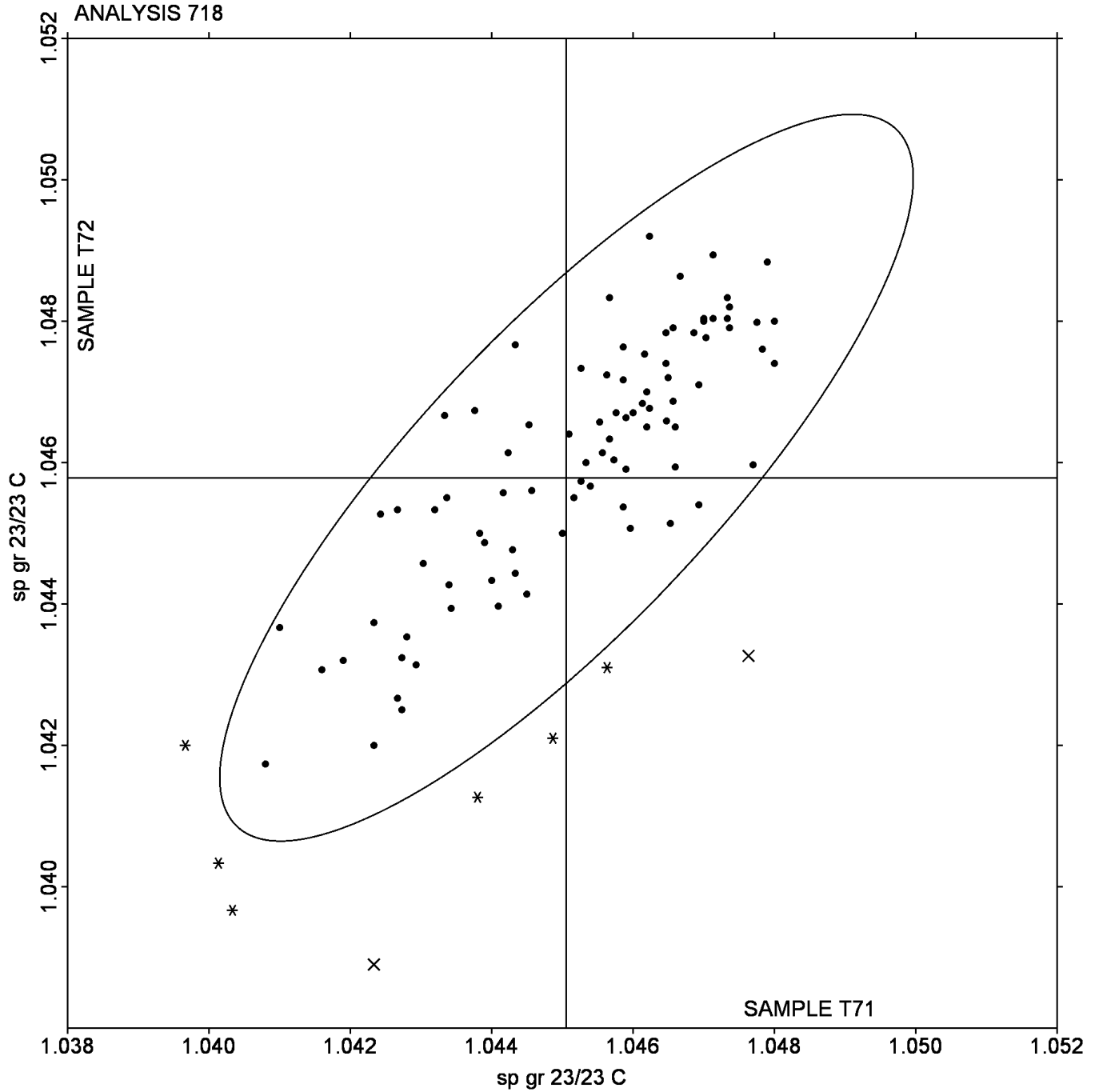
VUH7K3 (X) - Inconsistent in testing between samples.

Instrument Code List as Reported by the Labs

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

Analysis 718
Specific Gravity - sp gr 23/23 C

Grand Mean Sample T71: 1.0451 sp gr 23/23 C Grand Mean Sample T72: 1.0458 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 755
Moisture Content of Plastics

WebCode	Data Flag	Sample Y71			Sample Y72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2ANM8R		0.03067	0.00292	0.32	0.02933	0.00301	0.30	MD
4NR6Y2		0.01067	-0.01708	-1.88	0.00733	-0.01899	-1.88	CB
5EDX77		0.04000	0.01226	1.35	0.03100	0.00468	0.46	CB
5F9PUD		0.02100	-0.00674	-0.74	0.02200	-0.00432	-0.43	BA
9WE6PN	*	0.03333	0.00559	0.62	0.01667	-0.00965	-0.96	XX
B26DL7		0.01697	-0.01078	-1.19	0.01453	-0.01179	-1.17	ML
BB1XET		0.03267	0.00492	0.54	0.03233	0.00601	0.59	MQ
BB56YE	*	0.03200	0.00426	0.47	0.04800	0.02168	2.15	MB
BE8E4V		0.01500	-0.01274	-1.41	0.01367	-0.01265	-1.25	MI
CDD27V		0.03790	0.01016	1.12	0.04810	0.02178	2.15	MR
CZBZPG		0.02567	-0.00208	-0.23	0.02100	-0.00532	-0.53	MK
DE5EEE		0.02487	-0.00288	-0.32	0.02297	-0.00335	-0.33	XX
E7MDM9		0.02800	0.00026	0.03	0.01967	-0.00665	-0.66	XX
FC4XZ3		0.02250	-0.00524	-0.58	0.01900	-0.00732	-0.72	XX
GCYWFN	X	0.00300	-0.02474	-2.73	0.00267	-0.02365	-2.34	XX
GS24VJ		0.03667	0.00892	0.98	0.03000	0.00368	0.36	MU
GZFMAG		0.03000	0.00226	0.25	0.03333	0.00701	0.69	XX
HGREXC	X	0.21033	0.18259	20.15	0.19733	0.17101	16.92	MK
KVJT8Q		0.02733	-0.00041	-0.05	0.02367	-0.00265	-0.26	MK
L94G8F		0.02500	-0.00274	-0.30	0.02433	-0.00199	-0.20	ML
MN32PR		0.04800	0.02026	2.24	0.04550	0.01918	1.90	AZ
N1PY3S		0.02467	-0.00308	-0.34	0.02167	-0.00465	-0.46	MC
N9XYE9		0.02400	-0.00374	-0.41	0.01800	-0.00832	-0.82	MK
NMLY7X		0.02950	0.00176	0.19	0.03300	0.00668	0.66	MJ
P3BSJT		0.02903	0.00129	0.14	0.02880	0.00248	0.25	XX
Q536QH		0.02180	-0.00594	-0.66	0.02747	0.00115	0.11	MD
RJX9S3		0.02467	-0.00308	-0.34	0.02000	-0.00632	-0.63	MK
RUDT7Y		0.02200	-0.00574	-0.63	0.01933	-0.00699	-0.69	MT
S1HWVB		0.02500	-0.00274	-0.30	0.02167	-0.00465	-0.46	MJ
SFQGB9		0.02630	-0.00144	-0.16	0.02607	-0.00025	-0.03	XX
TV1J4H	*	0.00990	-0.01784	-1.97	0.02133	-0.00499	-0.49	XX
TVKNXW		0.02990	0.00216	0.24	0.02843	0.00211	0.21	MR

**Plastics Interlaboratory Testing Program
Analysis 755
Moisture Content of Plastics**

WebCode	Data Flag	Sample Y71			Sample Y72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
U2JQGL		0.03067	0.00292	0.32	0.02667	0.00035	0.03	MS
U4M7CQ		0.01133	-0.01641	-1.81	0.01167	-0.01465	-1.45	MI
VCA5UH		0.04600	0.01826	2.01	0.03900	0.01268	1.25	ML
W37N5K		0.02461	-0.00313	-0.35	0.02236	-0.00396	-0.39	MR
W8ELJB		0.02333	-0.00441	-0.49	0.01900	-0.00732	-0.72	AZ
W9PZG5		0.02733	-0.00041	-0.05	0.02400	-0.00232	-0.23	ML
YX9KUW		0.04200	0.01426	1.57	0.04200	0.01568	1.55	MB
Z47XHJ		0.04393	0.01619	1.79	0.04727	0.02095	2.07	XX

Summary Statistics			
Grand Means	0.027742	Percent	0.026320 Percent
Std Dev Btwn Labs	0.009062	Percent	0.010107 Percent
Statistics based on 38 of 40 reporting participants			

Sample Y71: HIPS & Sample Y72: HIPS

Comments on assigned Data Flags for Test #755

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

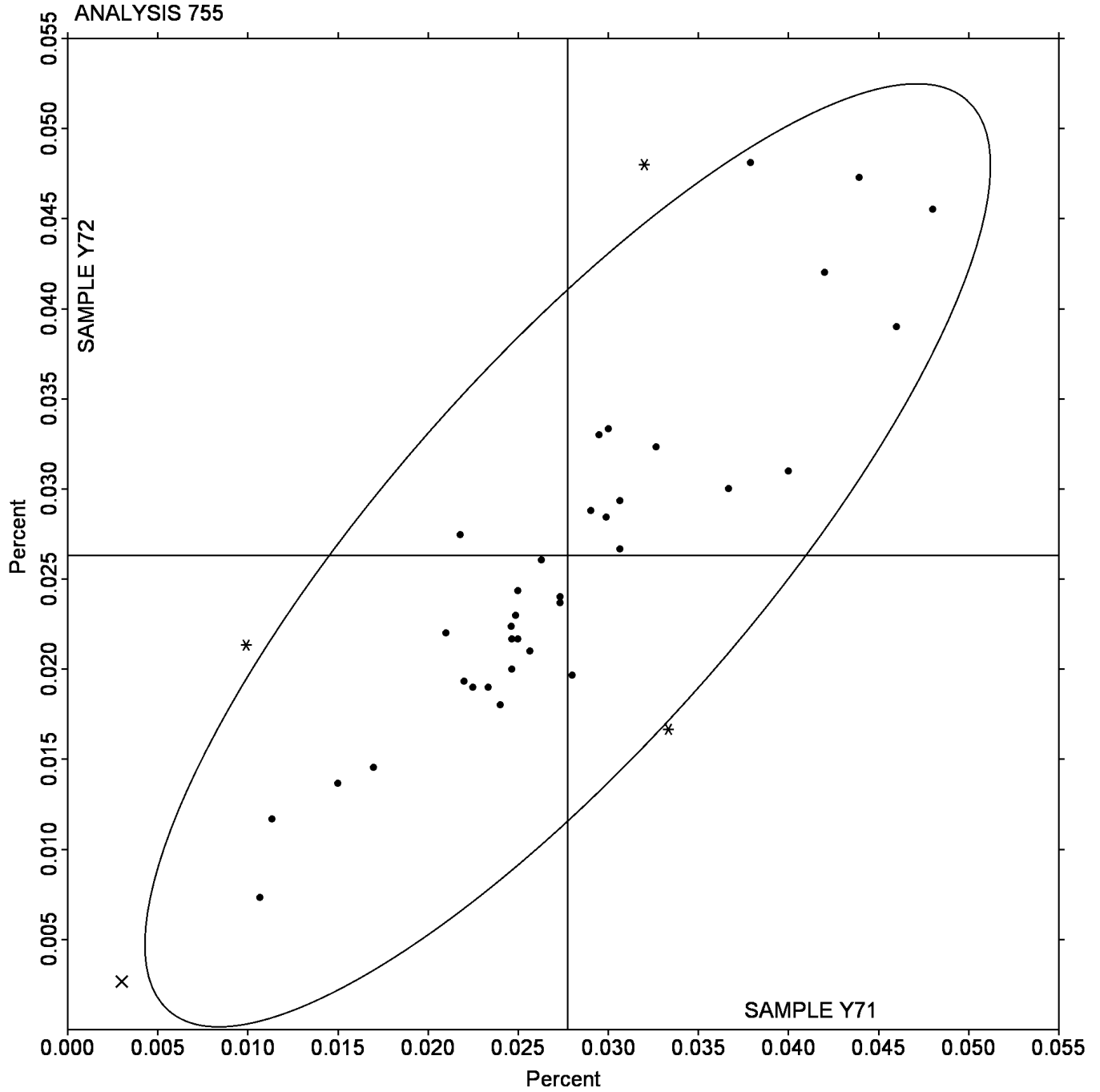
HGREXC (X) - Data for all samples are high. Data appear to be off by a factor of 10

Instrument Code List as Reported by the Labs

- | | |
|--|---|
| (AZ) - Arizona Instruments Moisture Analyzer | (BA) - Brabender Aquatrac |
| (CB) - Computrac Max 2000 Moisture Analyzer | (MB) - Omnimark Mark 3 |
| (MC) - Mettler Toledo DL32 | (MD) - Mettler Toledo DL37 |
| (MI) - Mitsubishi MCI Series | (MJ) - Mitsubishi KF Analyzer Series |
| (MK) - Mitsubishi KF Analyzer CA 100 | (ML) - Metrohm Coulometer |
| (MQ) - Metrohm Coulometer 737 KF | (MR) - Metrohm Coulometer 756 KF |
| (MS) - Metrohm Coulometer 831 KF | (MT) - Mettler Toledo DL39 |
| (MU) - Mettler | (XX) - Instrument manufacturer not specified by lab |

Plastics Interlaboratory Testing Program
Analysis 755
Moisture Content of Plastics

Grand Mean Sample Y71: 0.02774 Percent Grand Mean Sample Y72: 0.02632 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 757
Ash Content in Thermoplastics - Percent

WebCode	Data Flag	Sample L71			Sample L72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1MQQ8F	*	17.440	-0.446	-2.64	15.120	-0.016	-0.17	XX
2KX5QP		17.900	0.014	0.08	15.150	0.014	0.15	XX
2T3PSB		18.017	0.131	0.77	15.244	0.108	1.13	XX
3XAVRA		17.960	0.074	0.44	15.135	-0.001	-0.01	XX
44ZKCX		18.050	0.164	0.97	15.150	0.014	0.15	XX
46YMSD		17.650	-0.236	-1.40	15.150	0.014	0.15	XX
4BUP7U		17.851	-0.035	-0.21	15.081	-0.055	-0.58	XX
4GMBXE		17.965	0.079	0.46	15.190	0.054	0.57	XX
4RQ37N		17.910	0.024	0.14	15.095	-0.041	-0.43	XX
5CMMQ8		17.911	0.024	0.14	15.272	0.136	1.43	XX
5PGS6J		18.185	0.299	1.76	15.145	0.009	0.10	XX
67R3K3		18.145	0.259	1.53	15.110	-0.026	-0.27	XX
6MK2FQ		18.025	0.139	0.82	15.095	-0.041	-0.43	XX
6YB2HS		17.795	-0.091	-0.54	15.025	-0.111	-1.17	XX
9AMAD9		17.735	-0.151	-0.89	15.155	0.019	0.20	XX
9NCJD2		17.945	0.059	0.35	15.330	0.194	2.04	XX
A3TEAW	X	20.420	2.534	14.96	15.095	-0.041	-0.43	XX
BNLB6G		17.780	-0.106	-0.63	15.105	-0.031	-0.32	XX
CHSPWT		18.040	0.154	0.91	15.150	0.014	0.15	XX
CW9GLZ		18.034	0.148	0.87	15.065	-0.071	-0.75	XX
CWA9J8		17.783	-0.104	-0.61	15.132	-0.004	-0.05	XX
D3VSDV	*	17.695	-0.191	-1.13	14.845	-0.291	-3.06	XX
D8UU4H		17.710	-0.176	-1.04	15.235	0.099	1.04	XX
DB48ZB		18.079	0.192	1.14	15.139	0.003	0.03	XX
DTAZ6S		17.686	-0.200	-1.18	15.158	0.023	0.24	XX
DV24RC		17.890	0.004	0.02	15.215	0.079	0.83	XX
FQCW59		17.930	0.044	0.26	15.080	-0.056	-0.59	XX
FQWRLS		17.783	-0.103	-0.61	15.170	0.034	0.36	XX
G4TVD2		17.980	0.094	0.55	15.195	0.059	0.62	XX
GKYPWH		17.910	0.024	0.14	15.170	0.034	0.36	XX
HS112D		17.755	-0.131	-0.78	15.135	-0.001	-0.01	XX
HWGWUG		17.815	-0.071	-0.42	15.125	-0.011	-0.11	XX

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

WebCode	Data Flag	Sample L71			Sample L72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
JZRDA6		17.650	-0.236	-1.40	15.045	-0.091	-0.96	XX
K3GY92		17.840	-0.046	-0.27	15.080	-0.056	-0.59	XX
KMYU68		17.900	0.014	0.08	15.120	-0.016	-0.17	XX
LQ1YQ6		17.750	-0.136	-0.80	15.060	-0.076	-0.80	XX
MEKZPQ		17.720	-0.166	-0.98	15.205	0.069	0.73	XX
PD5R1T		17.931	0.045	0.26	15.221	0.085	0.90	XX
Q99RL3		17.880	-0.006	-0.04	15.300	0.164	1.73	XX
QK53G5		17.600	-0.286	-1.69	14.950	-0.186	-1.96	XX
QQUEHT		17.565	-0.321	-1.90	15.165	0.029	0.31	XX
QZ99Y6		17.910	0.024	0.14	15.160	0.024	0.25	XX
S8CVDM		18.215	0.329	1.94	15.200	0.064	0.67	XX
STFALH		18.200	0.314	1.85	15.200	0.064	0.67	XX
TKQ1TS	*	17.890	0.004	0.02	14.875	-0.261	-2.75	XX
U86BTD		18.020	0.134	0.79	15.160	0.024	0.25	XX
UCL9CG		17.955	0.069	0.41	15.200	0.064	0.67	XX
V7A7EX		18.220	0.334	1.97	15.085	-0.051	-0.54	XX
VB9GSK		17.905	0.018	0.11	15.315	0.179	1.88	XX
VBHSBG	X	26.165	8.279	48.89	19.685	4.549	47.87	XX
W8SEWR		18.025	0.139	0.82	15.235	0.099	1.04	XX
XH9EV7		18.030	0.144	0.85	15.105	-0.031	-0.32	XX
XVQX9X		17.890	0.004	0.02	14.960	-0.176	-1.85	XX
Z4EXS2		17.700	-0.186	-1.10	15.030	-0.106	-1.11	XX
ZJ5G83	X	17.420	-0.466	-2.75	15.490	0.354	3.73	XX
ZKC1QA		17.825	-0.061	-0.36	15.165	0.029	0.31	XX

Summary Statistics			
Grand Means	17.8863	Percent	15.1359
			Percent
Std Dev Btwn Labs	0.1693	Percent	0.0950
			Percent
Statistics based on 53 of 56 reporting participants			

Sample L71: PBT & Sample L72: PBT

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

Comments on assigned Data Flags for Test #757

A3TEAW (X) - Inconsistent in testing between samples, data for Sample L71 are high.

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

ZJ5G83 (X) - Inconsistent in testing between samples, data for Sample L71 are low, and data for Sample L72 are high..

Instrument Code List as Reported by the Labs

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

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

WebCode	Data Flag	Sample B71			Sample B72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1D3HYR		2,209	240	1.19	2,390	259	0.99	IR
21M1EY		2,018	49	0.24	2,213	82	0.31	TY
2ENCTQ		1,864	-105	-0.52	2,087	-44	-0.17	XX
3CT263		2,093	124	0.61	2,323	191	0.73	IM
4QR25C		1,999	29	0.15	2,160	29	0.11	SH
5FZT67		2,035	66	0.33	2,281	150	0.57	IN
82JMAC		2,127	157	0.78	2,327	196	0.75	IN
84GYHP		2,015	46	0.23	2,228	97	0.37	TH
8DZW7N		2,066	97	0.48	2,234	103	0.39	IN
941QJP		2,098	129	0.64	2,275	143	0.55	IN
D98WYG	X	1,749	-220	-1.09	1,462	-669	-2.56	TH
E3JDUK		1,573	-396	-1.96	1,633	-498	-1.91	MT
EMT4FV		2,163	193	0.96	2,380	249	0.95	IN
H8MM9Y		2,074	104	0.52	2,222	91	0.35	TH
HD9Y48		2,005	36	0.18	2,189	58	0.22	IN
K9LB8Q		2,076	106	0.53	2,291	160	0.61	IN
KJ2KKS		1,586	-383	-1.90	1,616	-516	-1.98	IN
Q5X6U4		2,030	61	0.30	2,228	96	0.37	IN
RPPZC1		1,719	-250	-1.24	1,750	-381	-1.46	IM
XR2ZR7		1,541	-428	-2.12	1,579	-552	-2.12	IN
ZDHCAC		2,094	125	0.62	2,219	87	0.33	IN

Summary Statistics			
Grand Means	1,969.1	psi	2,131.2
			psi
Std Dev Btwn Labs	201.9	psi	261.1
			psi
Statistics based on 20 of 21 reporting participants			

Sample B71: LDPE & Sample B72: LDPE

Comments on assigned Data Flags for Test #770

D98WYG (X) - Inconsistent in testing between samples, data for Sample B72 are low.

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

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IR) - Instron with retrofit

(SH) - Shimadzu

(TY) - Toyoseiki

(IN) - Instron

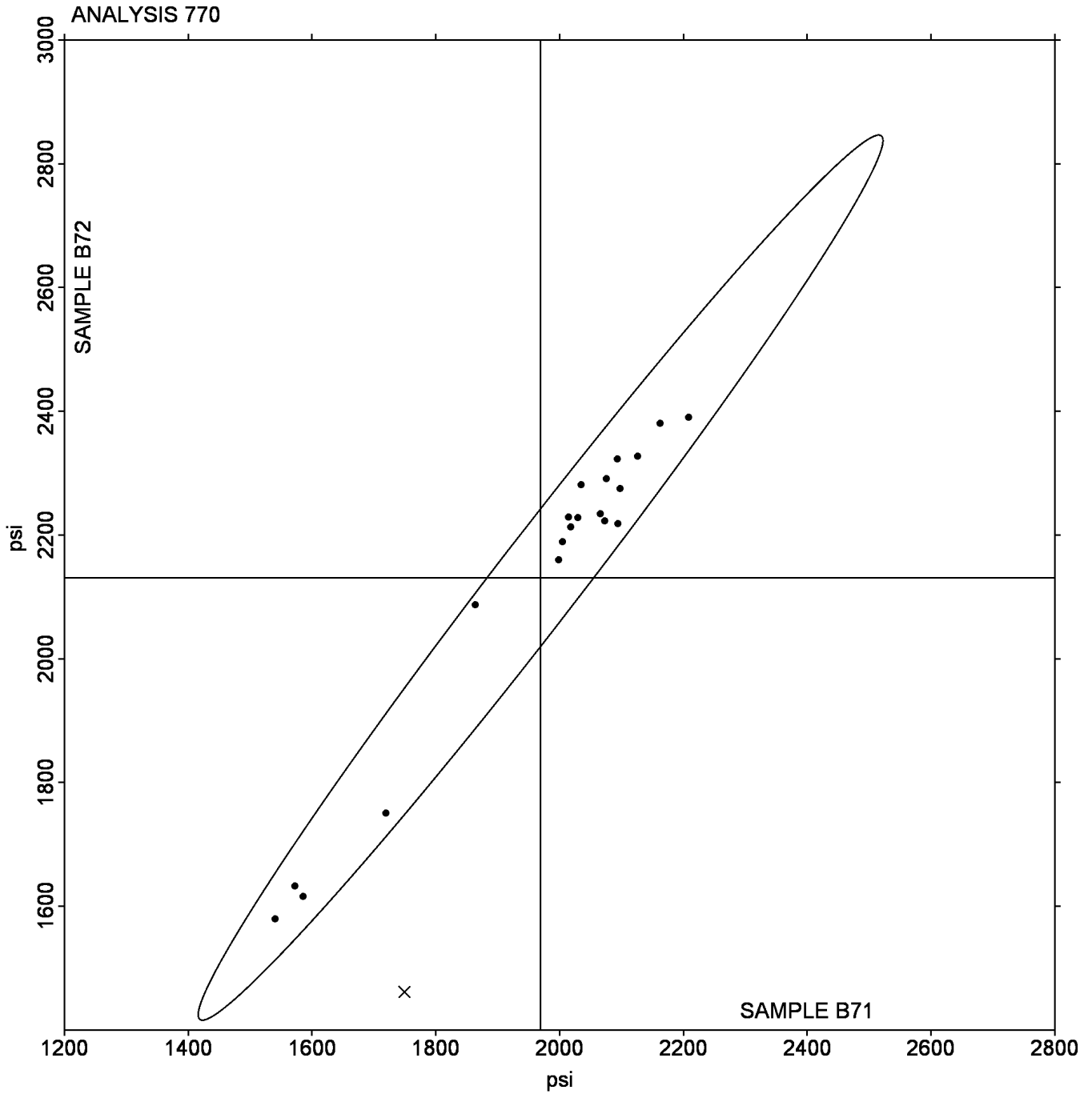
(MT) - MTS/Sintech

(TH) - Thwing Albert

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B71: 1,969.14 psi Grand Mean Sample B72: 2,131.24 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 B71			Sample B72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
13SGMB	*	2,380	-1,480	-3.26	2,597	-1,172	-2.91	IN
74DZLJ		4,618	758	1.67	4,019	250	0.62	IR
74V25C		3,871	11	0.03	3,716	-53	-0.13	IN
75V3FP	*	4,367	507	1.12	4,816	1,047	2.60	TH
A91D62		4,192	332	0.73	4,124	355	0.88	MT
B51R55		3,482	-378	-0.83	3,981	212	0.53	TH
BGU67L		4,040	181	0.40	3,904	135	0.33	TH
DD81SP		4,033	173	0.38	3,874	105	0.26	IM
DFUBLF		4,226	366	0.81	3,934	165	0.41	IN
E71F5W		3,940	81	0.18	3,574	-195	-0.48	IN
FKWAHP		3,820	-40	-0.09	3,493	-276	-0.69	IN
HNMCQH		3,419	-441	-0.97	4,094	325	0.81	HO
MJLCWU		3,512	-348	-0.77	3,549	-220	-0.55	SH
PJRP73		3,965	106	0.23	3,685	-84	-0.21	XX
QYS4EP		3,828	-32	-0.07	3,571	-198	-0.49	IM
R7L4SM		4,095	236	0.52	4,015	246	0.61	IN
RXV2A6		4,166	306	0.67	3,643	-126	-0.31	IN
T6FDJG		3,964	104	0.23	3,690	-79	-0.20	IN
TRWWBL		4,157	297	0.66	4,042	273	0.68	IN
WTQFL4		4,379	520	1.15	4,143	374	0.93	TY
WUY92G		3,533	-326	-0.72	3,611	-158	-0.39	IN
XQXXRW		3,471	-389	-0.86	3,473	-296	-0.73	IN
ZN5NUZ		3,597	-263	-0.58	3,607	-162	-0.40	IN
ZZ85A1		3,580	-280	-0.62	3,298	-471	-1.17	MT

Summary Statistics	
Grand Means	3,859.8 psi 3,768.9 psi
Std Dev Btwn Labs	453.5 psi 403.0 psi
Statistics based on 24 of 24 reporting participants	

Sample B71: LDPE & Sample B72: LDPE

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

Instrument Code List as Reported by the Labs

(HO) - Hounsfield Instruments

(IM) - Instru-Met Instruments

(IN) - Instron

(IR) - Instron with retrofit

(MT) - MTS/Sintech

(SH) - Shimadzu

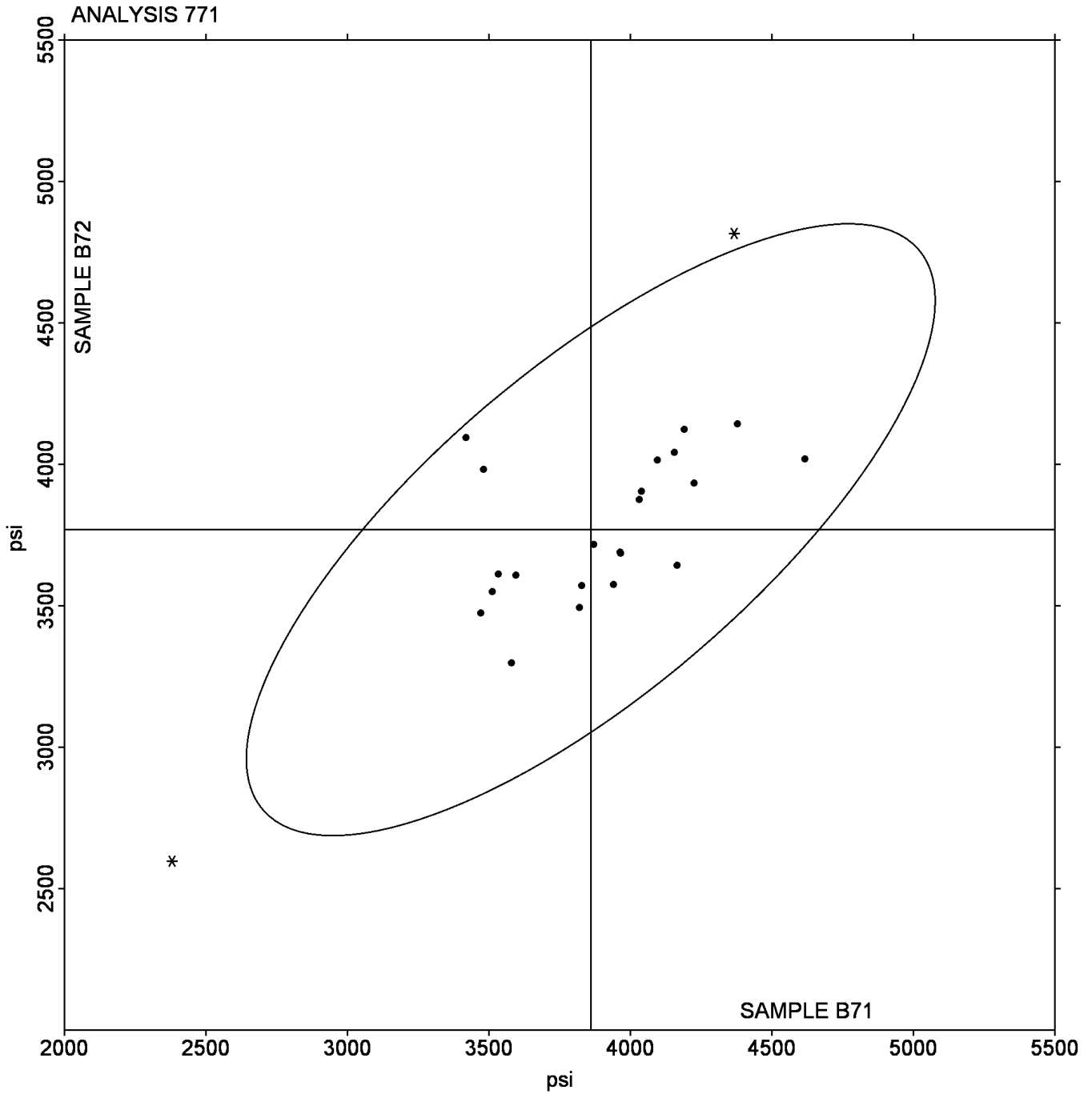
(TH) - Thwing Albert

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B71: 3,859.77 psi Grand Mean Sample B72: 3,768.95 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 B71			Sample B72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
4HMQMF		74.85	4.18	0.12	83.18	2.48	0.06	IN
66V1ES		10.03	-60.63	-1.77	10.34	-70.36	-1.72	MT
7VZDBF		85.20	14.54	0.42	95.89	15.19	0.37	IR
9Z1P9T		85.07	14.41	0.42	97.69	16.98	0.42	IM
AV5NU3		11.67	-58.99	-1.72	11.14	-69.57	-1.70	IN
BUZYLX		117.34	46.68	1.36	142.62	61.91	1.52	IN
D1HBSJ	X	2.34	-68.32	-1.99	3.54	-77.17	-1.89	TH
FE9JE2		95.30	24.64	0.72	109.10	28.39	0.70	SH
G5HAFX		76.35	5.69	0.17	85.84	5.13	0.13	IN
GK87NU		103.44	32.78	0.95	121.39	40.68	1.00	IN
GM3X4U		89.38	18.72	0.55	111.79	31.08	0.76	IN
JXAH7L		9.98	-60.68	-1.77	10.38	-70.33	-1.72	IN
QA3353		68.69	-1.97	-0.06	79.97	-0.74	-0.02	IN
UB98Z3		95.61	24.95	0.73	109.14	28.43	0.70	IN
WRVDHD		80.50	9.84	0.29	85.67	4.96	0.12	IN
YG1WWJ		24.82	-45.84	-1.34	27.39	-53.32	-1.31	IM
Z8MV6T		88.11	17.45	0.51	99.96	19.25	0.47	IN
ZK4YPR		84.90	14.24	0.41	90.50	9.79	0.24	XX

Summary Statistics			
Grand Means	70.661	Percent	80.706
			Percent
Std Dev Btw Labs	34.324	Percent	40.844
			Percent
Statistics based on 17 of 18 reporting participants			

Sample B71: LDPE & Sample B72: LDPE

Comments on assigned Data Flags for Test #772

D1HBSJ (X) - Extreme data.

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

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

(IN) - Instron

(IR) - Instron with retrofit

(MT) - MTS/Sintech

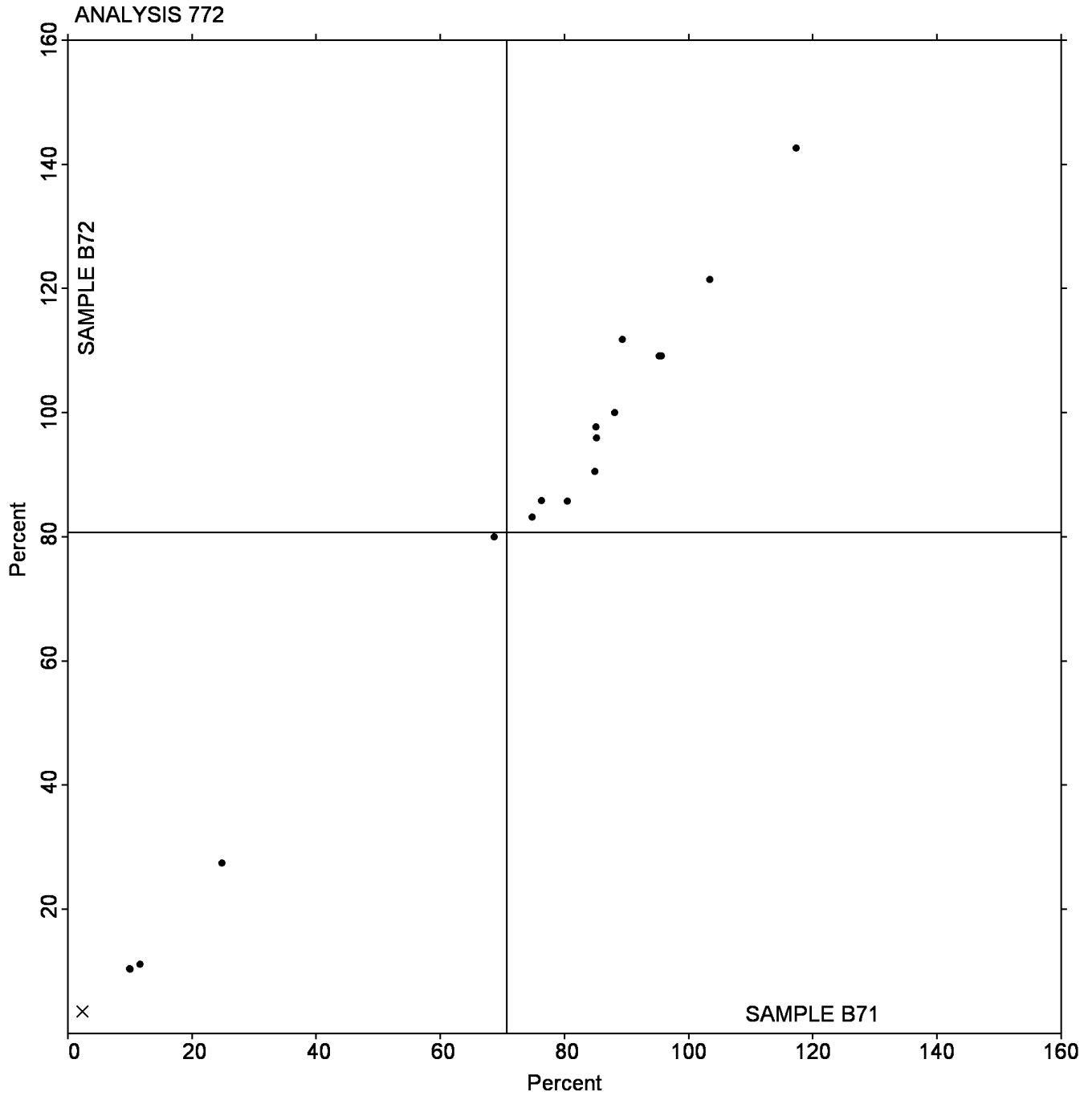
(SH) - Shimadzu

(TH) - Thwing Albert

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B71: 70.661 Percent Grand Mean Sample B72: 80.706 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 B71			Sample B72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
16WGBW		872.9	101.6	0.55	838.2	128.0	0.72	IN
1T2VGD		388.8	-382.5	-2.08	358.4	-351.8	-1.98	IN
21SSP8		1,007.2	235.9	1.28	948.6	238.4	1.34	IN
3N2S JL		771.9	0.7	0.00	659.6	-50.6	-0.29	IR
4FNF2S	*	1,076.4	305.1	1.66	1,115.4	405.2	2.28	TH
6ZUT4J		714.2	-57.1	-0.31	659.3	-50.9	-0.29	IN
7PQJ37		587.3	-184.0	-1.00	620.0	-90.2	-0.51	TH
A1UB7V		1,072.5	301.2	1.64	950.9	240.6	1.36	IN
C7BEDP		594.0	-177.3	-0.96	569.0	-141.2	-0.80	IN
FDREYP		640.1	-131.2	-0.71	559.9	-150.4	-0.85	IN
G7KRF3		624.0	-147.2	-0.80	566.4	-143.8	-0.81	IN
GADJZB		747.4	-23.9	-0.13	682.1	-28.1	-0.16	TH
KXYH6H		541.5	-229.8	-1.25	552.5	-157.8	-0.89	HO
LTDGCA		587.1	-184.2	-1.00	499.8	-210.4	-1.19	MT
M9VRRW		993.2	221.9	1.21	861.4	151.2	0.85	SH
NHDFDP		938.7	167.4	0.91	876.7	166.4	0.94	IN
P73N1M		919.7	148.4	0.81	758.1	47.9	0.27	XX
QP9JEK		659.8	-111.4	-0.61	651.0	-59.2	-0.33	IN
SEF2TP		788.0	16.7	0.09	712.3	2.1	0.01	IM
T1STDF		931.2	159.9	0.87	939.8	229.6	1.29	XX
YKHJ83		787.3	16.0	0.09	705.5	-4.8	-0.03	IM
ZBTW3Q		833.3	62.0	0.34	666.1	-44.1	-0.25	XX
ZGR3BT		663.0	-108.3	-0.59	584.6	-125.6	-0.71	IN

Summary Statistics			
Grand Means	771.28	Percent	710.24
			Percent
Std Dev Btwn Labs	183.92	Percent	177.40
			Percent
Statistics based on 23 of 23 reporting participants			

Sample B71: LDPE & Sample B72: LDPE

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

Instrument Code List as Reported by the Labs

(HO) - Hounsfield Instruments

(IM) - Instru-Met Instruments

(IN) - Instron

(IR) - Instron with retrofit

(MT) - MTS/Sintech

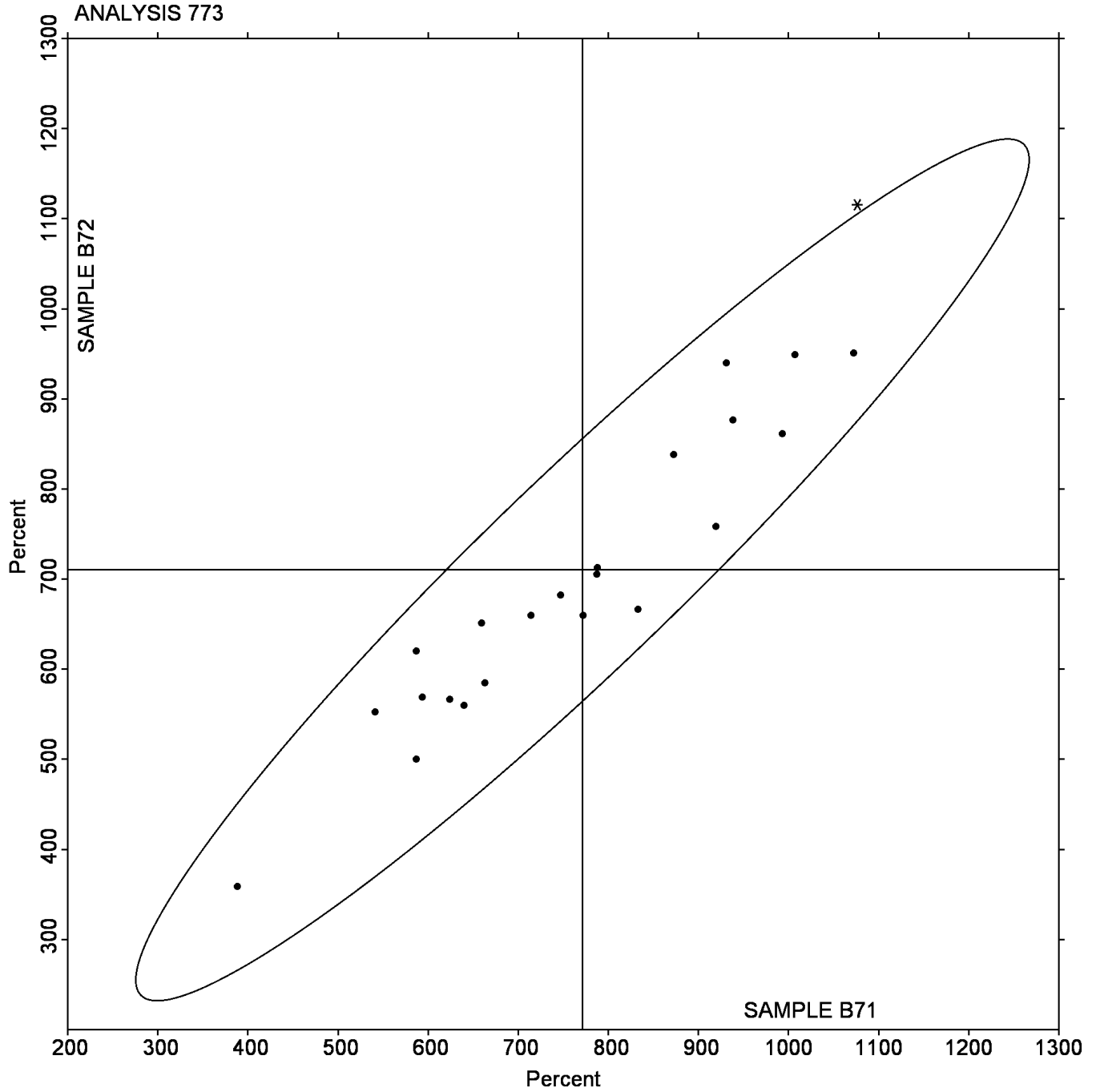
(SH) - Shimadzu

(TH) - Thwing Albert

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample B71: 771.28 Percent Grand Mean Sample B72: 710.24 Percent



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

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

WebCode	Data Flag	Sample B71			Sample B72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2SHQ47		4.0200	0.0851	1.13	3.9850	0.1282	1.74	XX
2TLCBS		3.9600	0.0251	0.33	3.8500	-0.0068	-0.09	XX
313BDA		3.9100	-0.0249	-0.33	3.8850	0.0282	0.38	XX
414BG9		3.9680	0.0331	0.44	3.9100	0.0532	0.72	XX
4RCUFV		3.8350	-0.0999	-1.32	3.8200	-0.0368	-0.50	XX
6VC2N9		3.8760	-0.0589	-0.78	3.8350	-0.0218	-0.30	XX
8E3CS1		3.9220	-0.0129	-0.17	3.8220	-0.0348	-0.47	XX
98EGH4		3.9400	0.0051	0.07	3.7650	-0.0918	-1.24	XX
BM1F2E		4.0290	0.0941	1.25	3.9230	0.0662	0.90	XX
CP2V15		4.0866	0.1517	2.01	4.0472	0.1905	2.58	XX
GR5TUP		3.8977	-0.0372	-0.49	3.8111	-0.0457	-0.62	XX
H814AJ		3.9300	-0.0049	-0.07	3.8460	-0.0108	-0.15	XX
J13P8H		3.7717	-0.1632	-2.16	3.7678	-0.0890	-1.21	XX
NTU7ZD		3.9488	0.0139	0.18	3.9134	0.0566	0.77	XX
PYW9D7		3.8900	-0.0449	-0.60	3.7700	-0.0868	-1.18	XX
RDUC8V		3.9100	-0.0249	-0.33	3.8150	-0.0418	-0.57	XX
RQSLFJ		3.9213	-0.0136	-0.18	3.7953	-0.0614	-0.83	XX
S5DABT		3.8840	-0.0509	-0.67	3.8140	-0.0428	-0.58	XX
SHXPH8		3.8600	-0.0749	-0.99	3.7300	-0.1268	-1.72	XX
UR18PE		3.9600	0.0251	0.33	3.9400	0.0832	1.13	XX
UXMDTV		3.9000	-0.0349	-0.46	3.8500	-0.0068	-0.09	XX
V8QX1H		3.8780	-0.0569	-0.75	3.8662	0.0095	0.13	XX
XB6H29		4.0140	0.0791	1.05	3.9300	0.0732	0.99	XX
Z4TLTT	X	0.0040	-3.9310	-52.09	0.0038	-3.8529	-52.27	XX
ZBDCJT	*	4.1102	0.1753	2.32	3.8898	0.0330	0.45	XX
ZDSSFT		3.9510	0.0161	0.21	3.8380	-0.0188	-0.25	XX

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

Summary Statistics

Grand Means

3.93494 mils

3.85675 mils

Std Dev Btwn Labs

0.07547 mils

0.07371 mils

Statistics based on 25 of 26 reporting participants

Sample B71: LDPE & Sample B72: LDPE

Comments on assigned Data Flags for Test #774

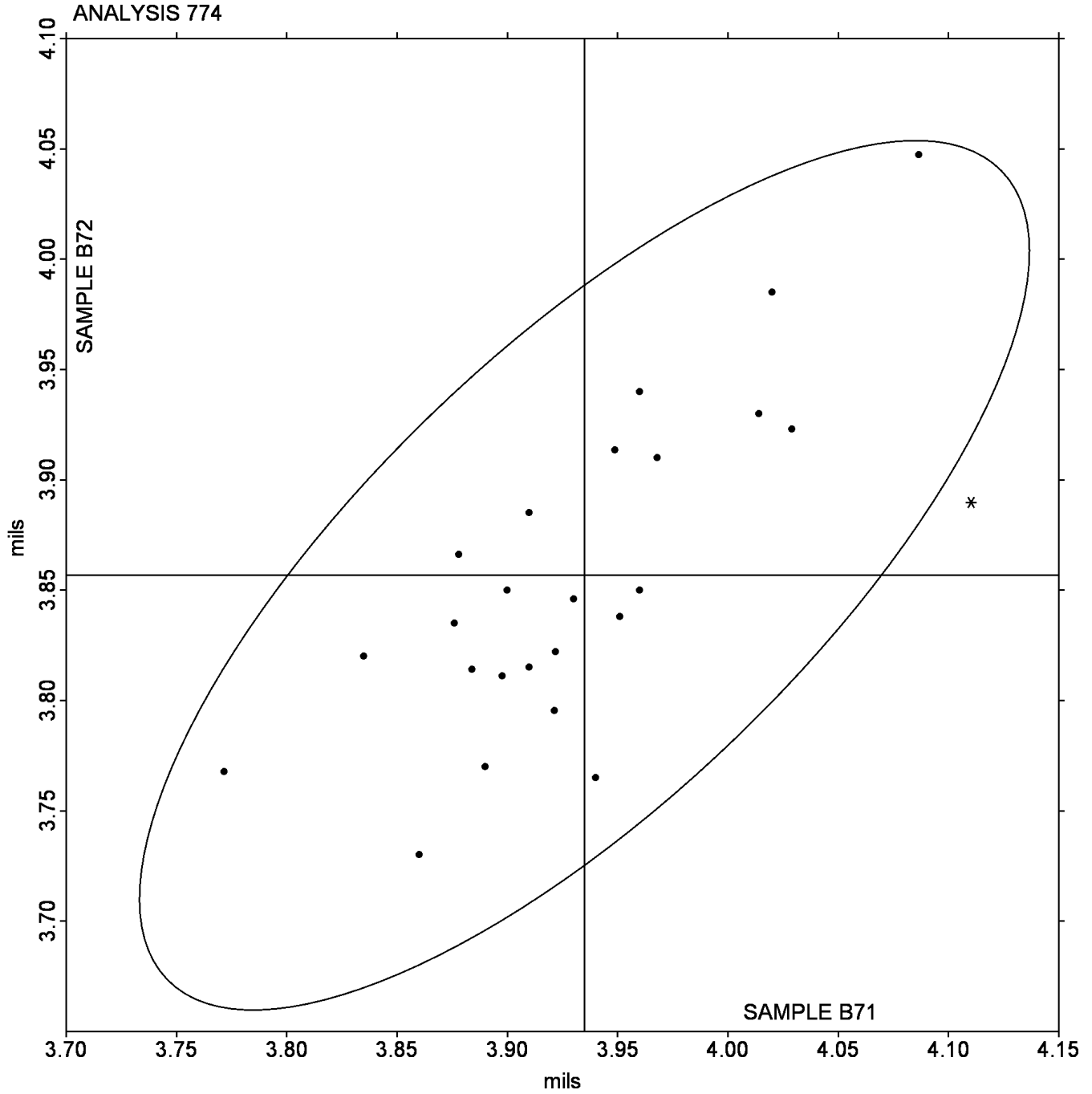
Z4TLTT (X) - Extreme data. Lab indicated reporting in mils, but data may be in inches.

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 B71: 3.9349 mils Grand Mean Sample B72: 3.8568 mils



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

Analysis 775
Secant Modulus at 1% Strain - psi

WebCode	Data Flag	Sample B71			Sample B72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2S26JA		28,134	-3,047	-0.65	29,059	-2,836	-0.66	IN
4U65Y8		30,967	-214	-0.05	31,931	36	0.01	TH
53F9QK		38,233	7,052	1.51	38,468	6,573	1.52	MT
ABTZ9Q		29,810	-1,371	-0.29	32,180	285	0.07	IN
BQ7A6X		39,490	8,309	1.78	36,511	4,615	1.07	IN
BRFT33		30,923	-259	-0.06	32,757	862	0.20	IN
BXKAEG		20,517	-10,664	-2.28	20,867	-11,028	-2.55	TH
DFCTK2		33,176	1,995	0.43	33,506	1,610	0.37	IM
KM1F49		29,680	-1,501	-0.32	30,499	-1,397	-0.32	IN
MDJUNG		32,395	1,214	0.26	34,047	2,152	0.50	IM
R8KNXE		29,578	-1,603	-0.34	31,343	-552	-0.13	IN
TV38QS		33,800	2,619	0.56	35,654	3,759	0.87	IN
Z6C8WT		33,071	1,890	0.40	32,625	730	0.17	IN
ZH8578		26,760	-4,421	-0.95	27,086	-4,809	-1.11	IN

Summary Statistics	
Grand Means	
31,181.0 psi	31,895.2 psi
Std Dev Btwn Labs	
4,674.1 psi	4,316.9 psi
Statistics based on 14 of 14 reporting participants	

Sample B71: LDPE & Sample B72: LDPE

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

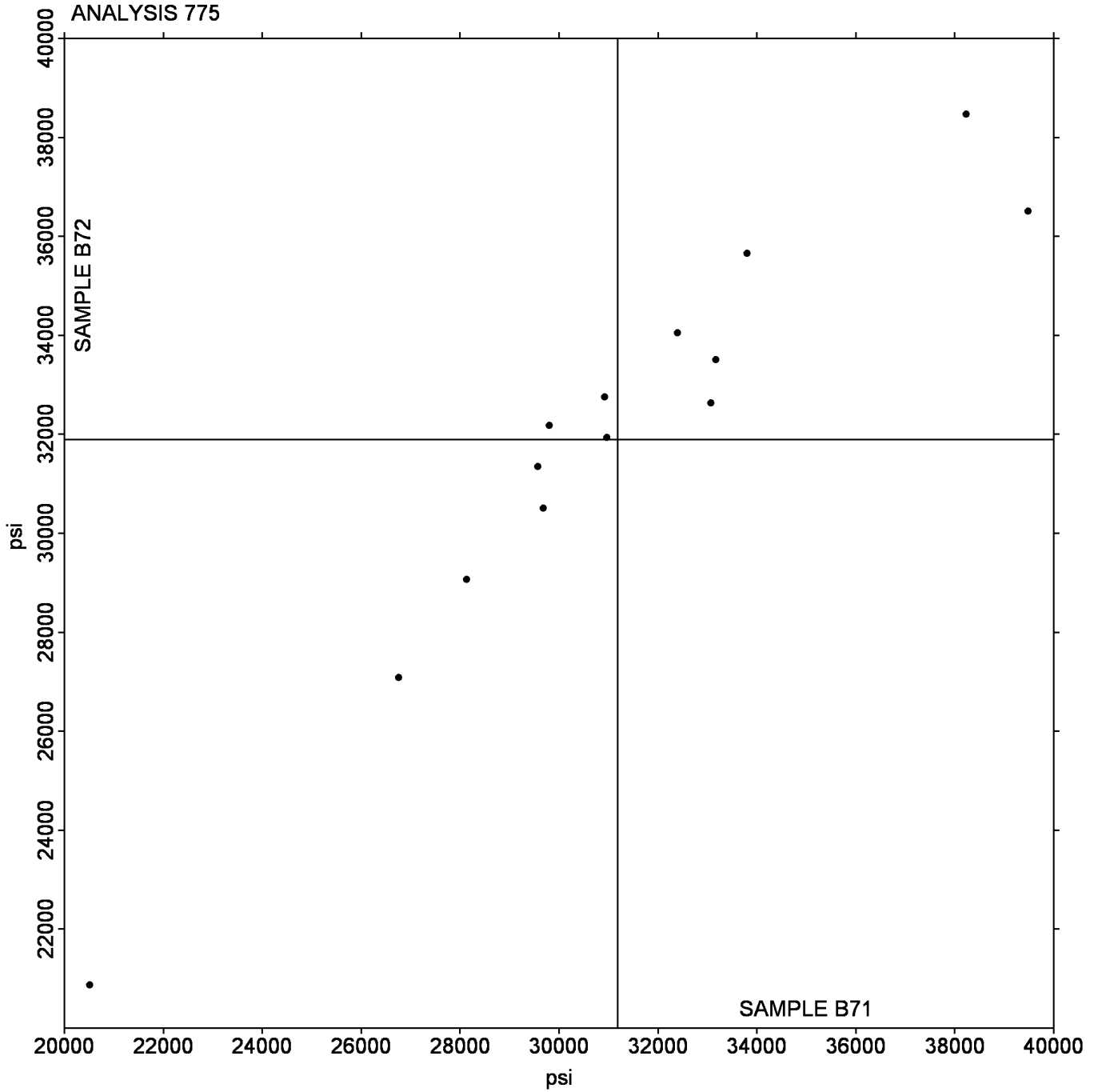
(IN) - Instron

(MT) - MTS/Sintech

(TH) - Thwing Albert

Analysis 775
Secant Modulus at 1% Strain - psi

Grand Mean Sample B71: 31,181.00 psi Grand Mean Sample B72: 31,895.20 psi



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

Analysis 776

Secant Modulus at 2% Strain - psi

WebCode	Data Flag	Sample B71			Sample B72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
5R58D6		30,363	4,588	1.35	29,807	2,877	0.84	IN
BHRN73		26,216	441	0.13	27,443	514	0.15	TH
BJ17UY		26,367	593	0.17	28,387	1,457	0.42	IN
ENMYWB		20,559	-5,216	-1.53	21,127	-5,803	-1.69	MT
KHK2B9		18,506	-7,269	-2.14	19,428	-7,502	-2.18	TH
M7X86A		26,150	375	0.11	28,600	1,670	0.49	IN
PGTS6N		27,578	1,803	0.53	27,964	1,035	0.30	IM
SZ8EST		28,558	2,783	0.82	29,928	2,999	0.87	IN
U3UB9A		27,461	1,686	0.50	29,033	2,103	0.61	IM
WBBC7A		25,988	213	0.06	27,661	731	0.21	IN
Y4YFYU		25,776	1	0.00	26,849	-81	-0.02	IN

Summary Statistics

Grand Means

25,774.7 psi

26,929.7 psi

Std Dev Btwn Labs

3,401.0 psi

3,441.4 psi

Statistics based on 11 of 11 reporting participants

Sample B71: LDPE & Sample B72: LDPE

Instrument Code List as Reported by the Labs

(IM) - Instru-Met Instruments

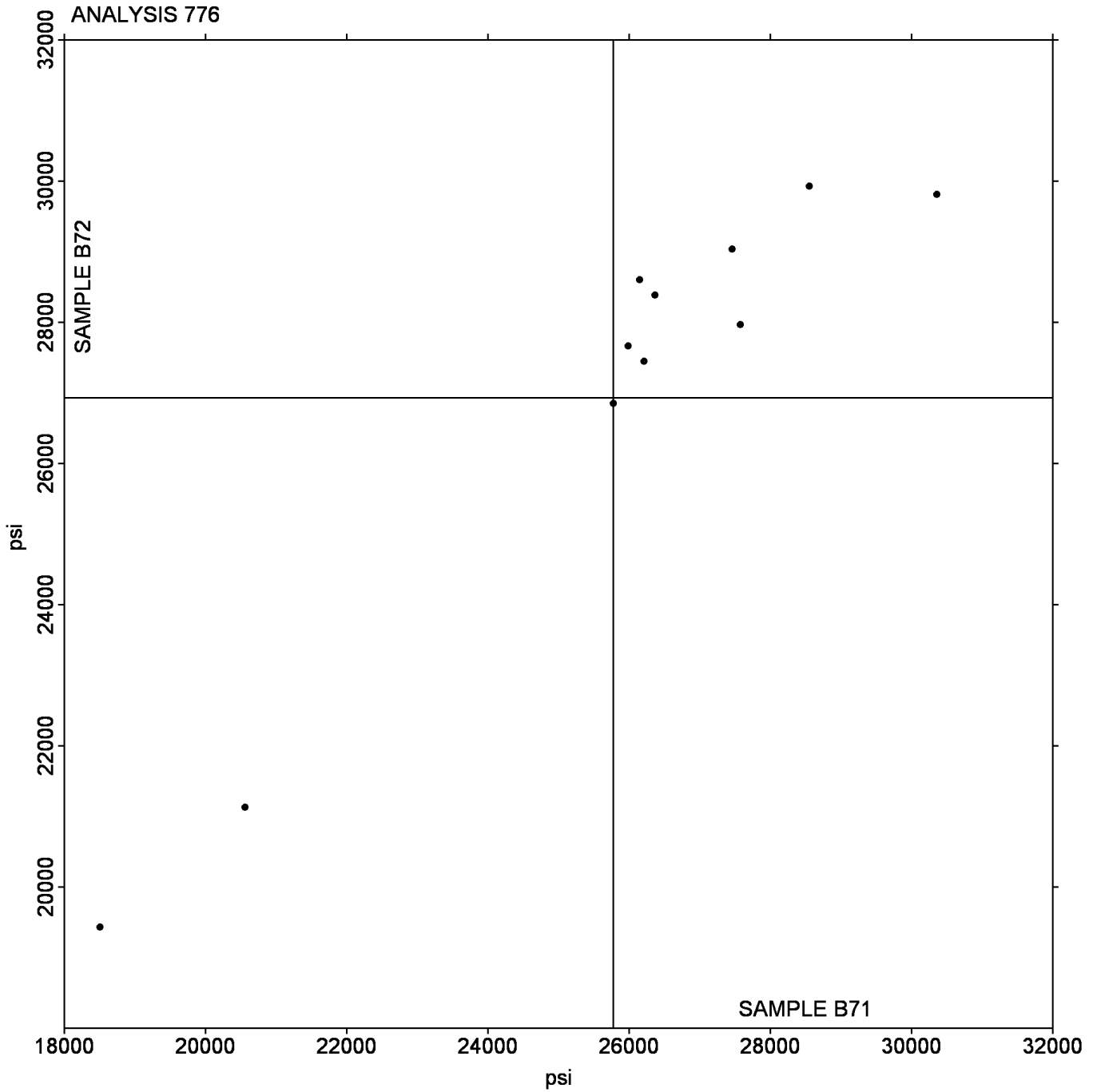
(IN) - Instron

(MT) - MTS/Sintech

(TH) - Thwing Albert

Analysis 776
Secant Modulus at 2% Strain - psi

Grand Mean Sample B71: 25,774.74 psi Grand Mean Sample B72: 26,929.75 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 P71			Sample P72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1ZQBJ		0.1802	-0.0277	-0.51	0.1816	0.0095	0.34	TH
4LFKTA		0.1694	-0.0385	-0.71	0.1596	-0.0125	-0.44	TH
4TWF1H		0.2556	0.0477	0.88	0.2212	0.0491	1.74	MI
6A4L14		0.2268	0.0189	0.35	0.2096	0.0375	1.33	IS
9LYUHX		0.2460	0.0381	0.71	0.1560	-0.0161	-0.57	TL
CQF45Y		0.2240	0.0161	0.30	0.1572	-0.0149	-0.52	TN
DAHEPT		0.1762	-0.0317	-0.59	0.1500	-0.0221	-0.78	TN
FSP9R4		0.2094	0.0015	0.03	0.1546	-0.0175	-0.62	TM
GVH2AD		0.1876	-0.0203	-0.37	0.1596	-0.0125	-0.44	DY
K3LEMS		0.1968	-0.0111	-0.20	0.1734	0.0013	0.05	TH
K94L47		0.1068	-0.1011	-1.87	0.1674	-0.0047	-0.16	IP
S3KFH5		0.3072	0.0993	1.84	0.2092	0.0371	1.31	TM
SRXG9M		0.1258	-0.0821	-1.52	0.1098	-0.0623	-2.20	SA
XDH42W		0.2842	0.0763	1.41	0.1918	0.0197	0.70	TH
XHXH1P	X	56.8280	56.6201	1,046.62	44.0140	43.8419	1,548.35	XX
ZJTS9P		0.2218	0.0139	0.26	0.1798	0.0077	0.27	TN

Summary Statistics			
Grand Means	0.20785	COF	0.17205
			COF
Std Dev Btwn Labs	0.05410	COF	0.02832
			COF
Statistics based on 15 of 16 reporting participants			

Sample P71: LDPE & Sample P72: LDPE

Comments on assigned Data Flags for Test #780

XHXH1P (X) - Extreme data.

Instrument Code List as Reported by the Labs

- | | |
|-------------------------------------|---|
| (DY) - Dynisco Model D1055 | (IP) - Instron 4400 Series |
| (IS) - Instron Model 5565 | (MI) - MTS Insight |
| (SA) - Shimadzu Autograph AG 2000 A | (TH) - Thwing Albert Friction/Peel Tester Model 225-1 |
| (TL) - TMI #32-90 | (TM) - TMI Slip and Friction Tester Model 98 |
| (TN) - TMI #32-06 | (XX) - Instrument make/model not specified by lab |

**Plastics Interlaboratory Testing Program
Analysis 781
Coefficient of Kinetic Friction**

WebCode	Data Flag	Sample P71			Sample P72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3XN66N	*	0.0608	-0.0985	-2.72	0.0770	-0.0428	-1.47	IP
8TJT6		0.1544	-0.0049	-0.14	0.1196	-0.0002	-0.01	TH
9D2QX9	X	51.5100	51.3507	1,420.26	40.4500	40.3302	1,380.06	XX
AN2AM2		0.1364	-0.0229	-0.63	0.1078	-0.0120	-0.41	TH
AP3ENA		0.1864	0.0271	0.75	0.1270	0.0072	0.25	TM
FCMTG4		0.2000	0.0407	1.13	0.1448	0.0250	0.85	MI
JHQKSD		0.1844	0.0251	0.69	0.1212	0.0014	0.05	TM
JN93DZ		0.1368	-0.0225	-0.62	0.1016	-0.0182	-0.62	TH
MWF1B8		0.1560	-0.0033	-0.09	0.1118	-0.0080	-0.28	DY
PBYDAD		0.1510	-0.0083	-0.23	0.1216	0.0018	0.06	TN
PKPWPM		0.1448	-0.0145	-0.40	0.1128	-0.0070	-0.24	TN
RYYWHX		0.1960	0.0367	1.02	0.1614	0.0416	1.42	TN
SET59E		0.1860	0.0267	0.74	0.1280	0.0082	0.28	TL
UANFPJ		0.1444	-0.0149	-0.41	0.0696	-0.0502	-1.72	SA
V1W7QD		0.2024	0.0431	1.19	0.1860	0.0662	2.26	IS
YYWARU		0.1496	-0.0097	-0.27	0.1074	-0.0124	-0.43	TH

Summary Statistics	
Grand Means	0.15929 COF
	0.11984 COF
Stnd Dev Btwn Labs	0.03616 COF
	0.02922 COF
Statistics based on 15 of 16 reporting participants	

Sample P71: LDPE & Sample P72: LDPE

Comments on assigned Data Flags for Test #781

9D2QX9 (X) - Extreme data.

Instrument Code List as Reported by the Labs

- | | |
|-------------------------------------|---|
| (DY) - Dynisco Model D1055 | (IP) - Instron 4400 Series |
| (IS) - Instron Model 5565 | (MI) - MTS Insight |
| (SA) - Shimadzu Autograph AG 2000 A | (TH) - Thwing Albert Friction/Peel Tester Model 225-1 |
| (TL) - TMI #32-90 | (TM) - TMI Slip and Friction Tester Model 98 |
| (TN) - TMI #32-06 | (XX) - Instrument make/model not specified by lab |

Plastics Interlaboratory Testing Program
Analysis 782
Tear Resistance of Films

WebCode	Data Flag	Sample Q71			Sample Q72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1DXVVA		196.0	15.0	0.65	374.4	146.4	2.51	EM
22RKRS		181.6	0.6	0.03	172.0	-56.0	-0.96	TE
31YD3T		151.6	-29.4	-1.28	224.5	-3.5	-0.06	TN
4AXD6Z		168.0	-13.0	-0.56	230.2	2.2	0.04	TM
4FL7W6		204.1	23.1	1.00	261.9	33.9	0.58	TE
54ZZ34		211.1	30.1	1.31	307.1	79.1	1.35	AL
6PY7VM		174.1	-6.9	-0.30	183.7	-44.3	-0.76	CE
795W31		145.2	-35.8	-1.56	169.9	-58.1	-0.99	TM
GTM2U9		184.2	3.2	0.14	216.2	-11.8	-0.20	TE
KXQ1RH		144.2	-36.8	-1.60	154.8	-73.1	-1.25	XX
L5SEJZ		205.2	24.2	1.05	256.5	28.6	0.49	TE
QWE35N		182.3	1.3	0.06	219.4	-8.5	-0.15	LO
UBLUNH		175.7	-5.3	-0.23	206.4	-21.6	-0.37	TE
XPSFPK		210.6	29.6	1.28	214.4	-13.6	-0.23	TF

Summary Statistics

Grand Means

180.99 grams-force

227.96 grams-force

Std Dev Btwn Labs

23.01 grams-force

58.42 grams-force

Statistics based on 14 of 14 reporting participants

Sample Q71: LDPE & Sample Q72: LDPE

Instrument Code List as Reported by the Labs

(AL) - Adamel Lhomargy ED20

(CE) - Ceast (model not specified)

(EM) - Elmendorf Tear Tester

(LO) - Lorentzen & Wettre Model II

(TE) - Thwing-Albert Pro Tear

(TF) - Thwing-Albert Model 60-1500

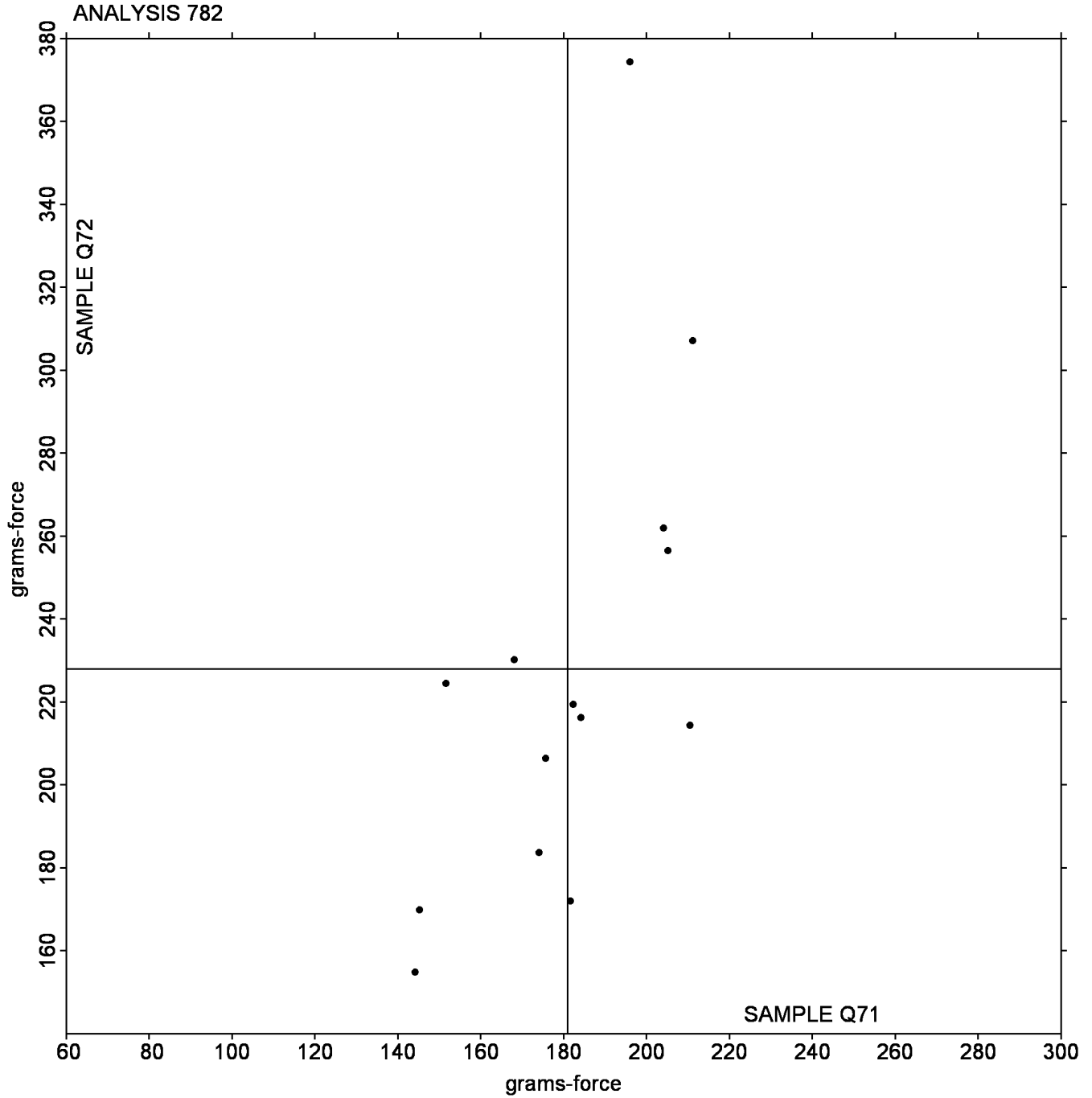
(TM) - TMI No. 83-1100

(TN) - TMI Tear Tester 83-10

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

Analysis 782
Tear Resistance of Films

Grand Mean Sample Q71: 180.99 grams-force Grand Mean Sample Q72: 227.96 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 D71			Sample D72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1RDAX3		13.288	0.563	0.87	12.663	-0.032	-0.04	BJ
1ZTNZD		12.950	0.225	0.35	12.913	0.218	0.28	BJ
2N6N9P	*	12.375	-0.350	-0.54	13.788	1.093	1.41	BH
2PJPAK		12.950	0.225	0.35	12.900	0.205	0.26	BJ
2YUWGE		13.000	0.275	0.43	13.463	0.768	0.99	BJ
52F61F		13.500	0.775	1.20	12.950	0.255	0.33	BJ
58S7LC		13.500	0.775	1.20	12.913	0.218	0.28	BJ
765L71		12.613	-0.112	-0.17	12.525	-0.170	-0.22	BH
CW7U23		12.688	-0.037	-0.06	12.638	-0.057	-0.07	BJ
DJKEQ8		11.438	-1.287	-1.99	11.988	-0.707	-0.91	BJ
DVVAZJ		12.573	-0.152	-0.24	12.371	-0.323	-0.42	XR
FVYGPA		13.563	0.838	1.29	12.650	-0.045	-0.06	BJ
GJ8E9T		11.500	-1.225	-1.89	10.988	-1.707	-2.20	XR
HDCP5P		12.963	0.238	0.37	13.275	0.580	0.75	BJ
J2Q32D		13.125	0.400	0.62	12.963	0.268	0.35	BJ
J3F5UV		11.975	-0.750	-1.16	11.220	-1.475	-1.90	HL
K3Q55P		12.175	-0.550	-0.85	12.188	-0.507	-0.65	BJ
KWD1E4		12.275	-0.450	-0.69	12.913	0.218	0.28	BJ
P2XAFQ		12.875	0.150	0.23	12.663	-0.032	-0.04	XX
P7R89K		13.238	0.513	0.79	13.400	0.705	0.91	BT
Q2ZQJV		11.494	-1.231	-1.90	11.274	-1.421	-1.83	HL
UJ7UA8		12.600	-0.125	-0.19	12.700	0.005	0.01	BG
VB1L8M		12.875	0.150	0.23	12.550	-0.145	-0.19	BJ
YB8DED		13.828	1.103	1.70	14.540	1.845	2.38	BT
YHXTKX		12.763	0.038	0.06	12.938	0.243	0.31	BJ

Analysis 785
Percent Haze of Film

Summary Statistics

Grand Means

12.7248 Percent

12.6947 Percent

Std Dev Btwn Labs

0.6472 Percent

0.7754 Percent

Statistics based on 25 of 25 reporting participants

Sample D71: LDPE & Sample D72: 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 Series

(HL) - Hunterlab Ultrascan XE

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

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

Analysis 786

Total Luminous transmittance of film

WebCode	Data Flag	Sample D71			Sample D72			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2RZQWB		90.80	-2.03	-1.86	90.91	-1.95	-1.79	HL
3L7UNC		94.73	1.90	1.73	94.70	1.84	1.69	BJ
3SX9N5		92.13	-0.70	-0.64	92.23	-0.64	-0.59	BH
47VLR7		92.95	0.12	0.11	92.96	0.10	0.09	BT
5CLZPE		90.98	-1.85	-1.69	91.01	-1.85	-1.70	HL
7SG5Z9	*	92.66	-0.17	-0.15	92.35	-0.51	-0.47	BJ
8B5WNC		91.16	-1.67	-1.52	91.16	-1.70	-1.56	BJ
9MXAW1		92.43	-0.40	-0.37	92.48	-0.39	-0.36	XR
AN2WVF		94.48	1.65	1.50	94.50	1.64	1.51	BJ
C5E3BU		93.86	1.03	0.94	93.85	0.99	0.91	BJ
DCWUJ7		93.71	0.88	0.81	93.81	0.95	0.87	BJ
DQ51QK		91.37	-1.46	-1.34	91.43	-1.43	-1.32	XR
E5PUBP		94.08	1.25	1.14	94.10	1.24	1.14	BJ
FSFHC1		93.56	0.73	0.67	93.54	0.68	0.62	BJ
Q6YHRC		92.19	-0.64	-0.59	92.20	-0.66	-0.61	BG
RTGHZR		93.45	0.62	0.57	93.54	0.68	0.62	BJ
TDZZQM		93.83	1.00	0.91	93.80	0.94	0.86	BJ
UAD5BE		92.53	-0.30	-0.28	92.60	-0.26	-0.24	BJ
VS9S3J		93.43	0.60	0.54	93.43	0.56	0.52	XX
XEXGPY		92.10	-0.73	-0.67	92.08	-0.79	-0.72	BJ
Z7ARH9		92.60	-0.23	-0.21	92.81	-0.05	-0.05	BT
ZD35SX		93.00	0.17	0.16	93.00	0.14	0.13	BJ
ZVWV3C		93.10	0.27	0.25	93.35	0.49	0.45	BJ

Summary Statistics			
Grand Means	92.830	Percent	92.862
Stnd Dev Btwn Labs	1.094	Percent	1.086
Statistics based on 23 of 23 reporting participants			

Sample D71: LDPE & Sample D72: LDPE

Plastics Interlaboratory Testing Program
Analysis 786
Total Luminous transmittance 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

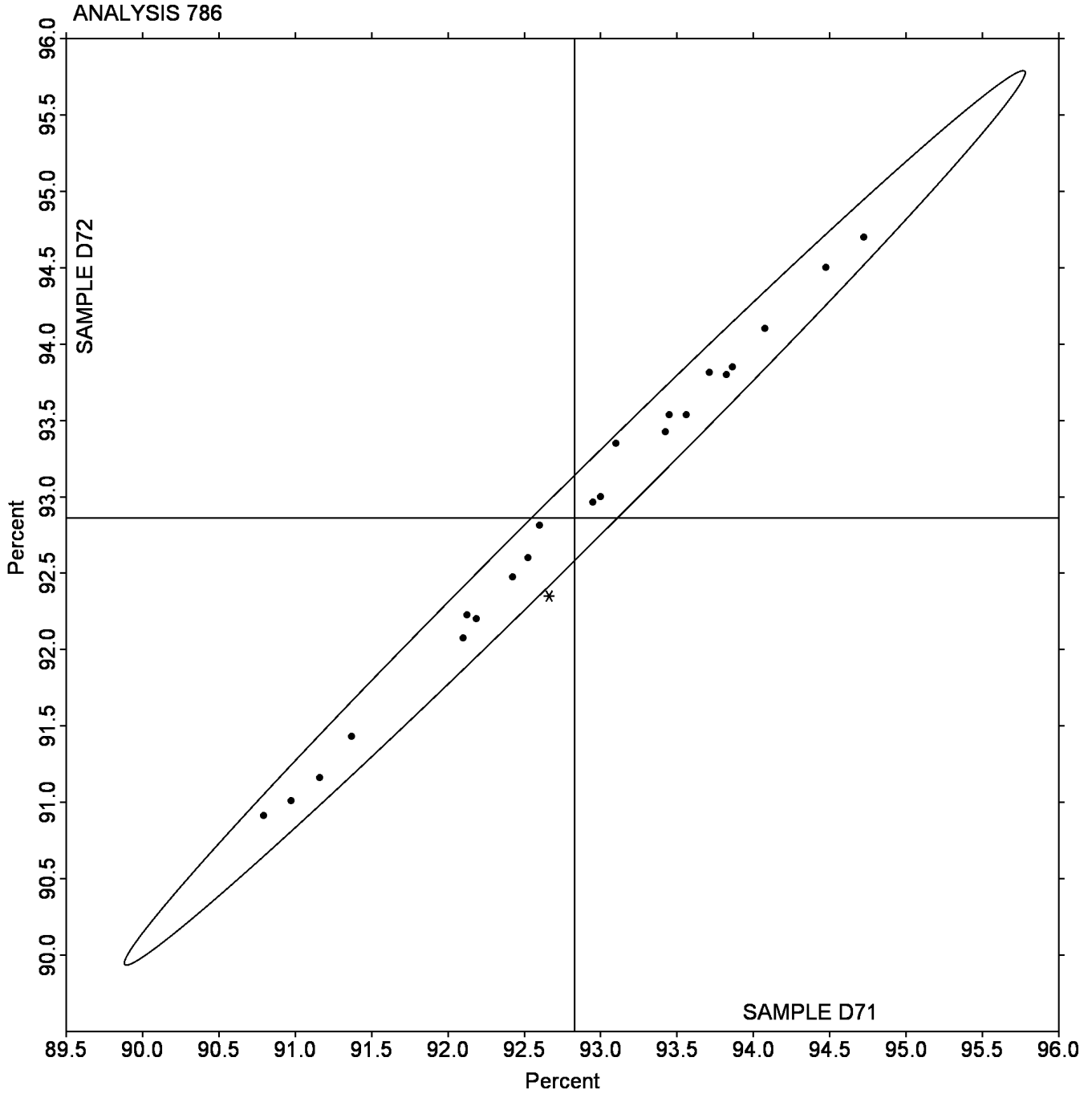
(XR) - X-Rite Spectrocolorimeter (any model)

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

Analysis 786

Total Luminous transmittance of film

Grand Mean Sample D71: 92.830 Percent Grand Mean Sample D72: 92.862 Percent



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