

## Plastics Interlaboratory Testing Program

### Web Summary Report #55, 3rd Qtr 2005

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<a href="#">704</a>	<a href="#">Tensile Stress at Yield, Plastic Samples</a>	<a href="#">718</a>	<a href="#">Specific Gravity</a>
<a href="#">705</a>	<a href="#">Tensile Stress at Break, Plastic Samples</a>	<a href="#">757</a>	<a href="#">Ash Content in Thermoplastics</a>
<a href="#">706</a>	<a href="#">Percent Elongation at Yield, Plastic Samples</a>	<a href="#">770</a>	<a href="#">Tensile Stress at Yield, Film Samples</a>
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## **About CTS and the Plastics Interlaboratory Program**

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

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

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

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

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## Key for Web Summary Report (Page 1 of 2)

<b>WebCode</b>	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.
<b>Lab Mean</b>	The average of the test results obtained by the participant.
<b>Grand Mean</b>	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.
<b>Difference from Grand Mean</b>	The difference of the LAB MEAN from the GRAND MEAN.
<b>Between-Lab Standard Deviation</b>	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).
<b>Comparative Performance Value</b>	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.
<b>Inst Code</b>	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.
<b>Data Flag</b>	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	<b>CAUTION</b> - 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	<b>STOP</b> - 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	<b>PROCEED</b> - 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.

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### 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.

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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 #55

### Plastics Interlaboratory Testing Program

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#### Analysis 704 - Tensile Stress at Yield

Material: ABS	Sample F47	6,946.76	psi	1.98% COV
	Sample F48	7,154.73	psi	1.81% COV

#### Analysis 705 - Tensile Stress at Break

Material: ABS	Sample F47	5,131.65	psi	3.51% COV
	Sample F48	5,154.78	psi	3.86% COV

#### Analysis 706 - Percent Elongation at Yield

Material: ABS	Sample F47	2.6288	Percent	5.99% COV
	Sample F48	2.8201	Percent	3.74% COV

#### Analysis 708 - Modulus of Elasticity

Material: ABS	Sample F47	359.35	ksi	5.84% COV
	Sample F48	346.97	ksi	5.71% COV

#### Analysis 730 - Tensile Stress at Yield, ISO Method

Material: ABS	Sample C47	45.588	MPa	1.59% COV
	Sample C48	48.322	MPa	1.61% COV

#### Analysis 731 - Tensile Stress at Break, ISO Method

Material: ABS	Sample C47	34.204	MPa	3.31% COV
	Sample C48	34.928	MPa	4.83% COV

#### Analysis 732 - Strain at Yield, ISO Method

Material: ABS	Sample C47	2.4540	Percent	3.36% COV
	Sample C48	2.7004	Percent	2.92% COV

#### Analysis 734 - Modulus of Elasticity, ISO Method

Material: ABS	Sample C47	2,408.35	MPa	5.55% COV
	Sample C48	2,334.22	MPa	5.97% COV

#### Analysis 720 - Flexural Modulus

Material: ABS	Sample J47	375.69	ksi	4.16% COV
	Sample J48	366.51	ksi	4.20% COV

#### Analysis 721 - Flexural Stress at 5% Strain

Material: ABS	Sample J47	10,520.48	psi	3.10% COV
	Sample J48	10,921.28	psi	2.78% COV

#### Analysis 722 - Flexural Stress at Yield

Material: ABS	Sample J47	10,502.35	psi	2.27% COV
	Sample J48	10,867.55	psi	2.46% COV

#### Analysis 736 - Flexural Modulus

Material: ABS	Sample K47	2,457.39	MPa	4.36% COV
	Sample K48	2,390.79	MPa	4.61% COV

#### Analysis 737 - Flexural Stress at 3.5% Strain

Material: ABS	Sample K47	70.261	MPa	2.33% COV
	Sample K48	71.183	MPa	2.32% COV

#### Analysis 738 - Flexural Stress at Yield

Material: ABS	Sample K47	71.011	MPa	2.70% COV
	Sample K48	73.396	MPa	2.63% COV

# Results Summary for Web Summary Report #55

## Plastics Interlaboratory Testing Program

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### Analysis 790 - Notched Izod Impact

Material: ABS	Sample S47	7.6491	ft.lbf/in	6.23% COV
	Sample S48	5.9826	ft.lbf/in	6.74% COV

### Analysis 792 - Notched Charpy Impact

Material: ABS	Sample M47	32.379	kJ/m <sup>2</sup>	3.76% COV
	Sample M48	30.744	kJ/m <sup>2</sup>	4.39% COV

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

Material: PC	Sample E47	125.59	Degrees C	1.58% COV
	Sample E48	126.94	Degrees C	1.38% COV

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

Material: PP	Sample G47	84.680	Degrees C	5.16% COV
	Sample G48	96.172	Degrees C	4.40% COV

### Analysis 712 - Temperature of Deflection (1.80 MPa)

Material: ABS	Sample N47	77.909	Degrees C	1.56% COV
	Sample N48	80.946	Degrees C	1.42% COV

### Analysis 715 - Vicat Temperature (Rate A)

Material: PC	Sample H47	152.03	Degrees C	0.918% COV
	Sample H48	151.58	Degrees C	0.887% COV

### Analysis 716 - Vicat Temperature (Rate B)

Material: PC	Sample R47	153.77	Degrees C	1.33% COV
	Sample R48	153.27	Degrees C	1.34% COV

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

Material: HDPE	Sample X47	12.036	grams/10 mins	2.97% COV
	Sample X48	12.528	grams/10 mins	2.73% COV

### Analysis 718 - Specific Gravity

Material: PC	Sample T47	1.1965	sp gr 23/23 C	0.178% COV
	Sample T48	1.1966	sp gr 23/23 C	0.162% COV

### Analysis 757 - Ash Content

Material: PBT	Sample L47	17.832	Percent	0.960% COV
	Sample L48	15.109	Percent	0.786% COV

### Analysis 770 - Tensile Stress at Yield, Films

Material: LDPE	Sample B47	1,661.25	psi	9.55% COV
	Sample B48	1,774.44	psi	9.57% COV

### Analysis 771 - Tensile Stress at Break, Films

Material: LDPE	Sample B47	3,919.27	psi	8.17% COV
	Sample B48	4,225.92	psi	7.67% COV

### Analysis 772 - Elongation at Yield, Films

Material: LDPE	Sample B47	10.071	Percent	36.1% COV
	Sample B48	10.159	Percent	32.5% COV

### Analysis 773 - Elongation at Break, Films

Material: LDPE	Sample B47	242.37	Percent	21.1% COV
	Sample B48	195.03	Percent	20.7% COV

## Results Summary for Web Summary Report #55

### Plastics Interlaboratory Testing Program

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#### Analysis 774 - Thickness of Film Specimens

Material: LDPE	Sample B47	1.4568	mils	4.03% COV
	Sample B48	1.4874	mils	4.00% COV

#### Analysis 780 - Static Friction

Material: LDPE	Sample P47	0.14104	COF	30.6% COV
	Sample P48	0.14395	COF	20.4% COV

#### Analysis 781 - Kinetic Friction

Material: LDPE	Sample P47	0.10470	COF	35.9% COV
	Sample P48	0.10416	COF	32.0% COV

#### Analysis 782 - Tear Resistance of Film

Material: LDPE	Sample Q47	513.34	grams-force	15.4% COV
	Sample Q48	645.17	grams-force	13.7% COV

#### Analysis 785 - Percent Haze

Material: PVC	Sample D47	5.1575	Percent	11.3% COV
	Sample D48	8.3917	Percent	6.99% COV

#### Analysis 786 - Total Transmittance

Material: PVC	Sample D47	93.213	Percent	0.849% COV
	Sample D48	93.293	Percent	0.913% COV

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

WebCode	Data Flag	Sample F47			Sample F48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
18NXNC		6,798.8	-148.0	-1.07	6,981.0	-173.7	-1.34
1DME6F		6,857.0	-89.8	-0.65	7,099.2	-55.5	-0.43
1QG2M1		7,072.0	125.2	0.91	7,296.4	141.7	1.09
23A97T		6,779.1	-167.6	-1.22	7,048.9	-105.8	-0.82
3SMQ94		6,993.0	46.2	0.34	7,036.4	-118.3	-0.91
4EEKV2		6,920.4	-26.4	-0.19	7,085.4	-69.3	-0.54
4HMB8W		6,687.6	-259.2	-1.88	6,960.0	-194.7	-1.50
558GBJ		6,991.6	44.8	0.33	7,127.3	-27.4	-0.21
5CNW2E		7,061.6	114.8	0.83	7,330.4	175.7	1.36
5GTS92		6,952.0	5.2	0.04	7,162.0	7.3	0.06
5H8ZPJ		7,186.0	239.2	1.74	7,338.4	183.7	1.42
6K1RBU		7,144.6	197.9	1.44	7,237.4	82.7	0.64
6NU9BM		6,969.8	23.0	0.17	7,061.2	-93.5	-0.72
726A6Q		6,925.8	-21.0	-0.15	7,167.8	13.1	0.10
7GGZ39		7,123.2	176.4	1.28	7,319.2	164.5	1.27
7S889K		6,823.4	-123.4	-0.89	7,020.8	-133.9	-1.03
87ZYRA		6,661.4	-285.4	-2.07	6,936.0	-218.7	-1.69
8AFUB7	X	7,033.5	86.8	0.63	6,975.8	-178.9	-1.38
8P5RNP		7,096.4	149.6	1.09	7,365.6	210.9	1.63
8TSDSQ		6,779.2	-167.6	-1.22	6,962.6	-192.1	-1.48
9VNH8		6,925.6	-21.2	-0.15	7,155.6	0.9	0.01
A9MNBL		6,921.8	-24.9	-0.18	7,104.9	-49.9	-0.38
AHH3GX		6,908.0	-38.8	-0.28	7,117.6	-37.1	-0.29
AVZGAW		6,952.2	5.4	0.04	7,258.6	103.9	0.80
B5QU5R		6,926.0	-20.8	-0.15	7,162.0	7.3	0.06
BLF7QR		6,932.9	-13.9	-0.10	7,031.5	-123.2	-0.95
BNMSDR		6,889.4	-57.4	-0.42	6,990.9	-163.9	-1.26
BS7HUL	X	6,639.6	-307.2	-2.23	6,688.4	-466.3	-3.60
BUEBVS		6,996.7	49.9	0.36	7,234.5	79.8	0.62
BV18QD		6,770.6	-176.2	-1.28	7,032.2	-122.5	-0.95
C7ZW5C		6,917.0	-29.8	-0.22	7,120.0	-34.7	-0.27
D1ZY61		6,958.2	11.4	0.08	7,162.2	7.5	0.06

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

WebCode	Data Flag	Sample F47			Sample F48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
D8JVC2		6,994.3	47.5	0.34	7,245.2	90.5	0.70
DAWVMV		6,819.2	-127.6	-0.93	7,134.8	-19.9	-0.15
DKYYRE		6,982.0	35.2	0.26	7,220.8	66.1	0.51
DSFR5H		6,860.0	-86.8	-0.63	7,000.0	-154.7	-1.19
DZFN4G		7,066.0	119.2	0.86	7,238.0	83.3	0.64
E551JF		6,955.6	8.8	0.06	7,219.2	64.5	0.50
EC6CKJ		7,216.2	269.4	1.95	7,448.8	294.1	2.27
F7PWMU		7,129.5	182.8	1.33	7,298.1	143.3	1.11
F9S68R		6,963.3	16.6	0.12	7,098.5	-56.2	-0.43
FLQ2NZ		7,001.2	54.4	0.39	7,257.2	102.5	0.79
FSPBGA		6,791.0	-155.8	-1.13	7,011.6	-143.1	-1.10
GG8HZ3		6,828.4	-118.3	-0.86	7,202.6	47.9	0.37
H7PXV4	X	6,347.6	-599.2	-4.35	6,672.4	-482.3	-3.72
J8NSF1		7,100.8	154.0	1.12	7,343.8	189.1	1.46
JEAEEC	X	5,037.2	-1,909.6	-13.85	6,811.0	-343.7	-2.65
JHUQ9V	X	6,461.8	-485.0	-3.52	6,765.2	-389.5	-3.01
JL5767		6,822.0	-124.8	-0.90	7,005.8	-148.9	-1.15
JSCL8Q		6,866.6	-80.2	-0.58	7,064.6	-90.1	-0.70
JWCW7B		6,700.8	-246.0	-1.78	7,019.9	-134.8	-1.04
K6XBYK	*	6,800.2	-146.6	-1.06	7,217.4	62.7	0.48
KCTBYM	X	6,534.3	-412.5	-2.99	6,414.2	-740.5	-5.71
KK6VTY	X	507.6	-6,439.1	-46.70	440.9	-6,713.8	-51.81
KS2GUB		7,138.8	192.0	1.39	7,293.8	139.1	1.07
LE6NQT		7,018.0	71.2	0.52	7,286.0	131.3	1.01
LM1B36		6,837.6	-109.2	-0.79	7,045.4	-109.3	-0.84
LQ5M46		6,903.9	-42.9	-0.31	7,140.6	-14.2	-0.11
LZYY2F		6,951.6	4.8	0.04	7,049.0	-105.7	-0.82
M3MCFQ	X	6,129.3	-817.4	-5.93	6,456.3	-698.5	-5.39
M5VTQ9		6,878.2	-68.6	-0.50	7,146.8	-7.9	-0.06
MS3TVE		7,019.3	72.5	0.53	7,192.5	37.8	0.29
MWTGYX		6,867.8	-79.0	-0.57	7,254.2	99.5	0.77
NVDB7Z		6,866.4	-80.4	-0.58	7,103.0	-51.7	-0.40

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

WebCode	Data Flag	Sample F47			Sample F48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
P9F5MW	X	6,723.8	-223.0	-1.62	6,585.4	-569.3	-4.39
P9RGVD		6,838.4	-108.4	-0.79	7,032.0	-122.7	-0.95
PJN4BK		7,084.9	138.1	1.00	7,183.4	28.6	0.22
PKQH6W		7,214.8	268.1	1.94	7,365.7	210.9	1.63
PVQHWD		7,014.1	67.3	0.49	7,243.2	88.5	0.68
QEKUG2		6,862.4	-84.4	-0.61	7,139.0	-15.7	-0.12
R9UA9A		7,113.4	166.6	1.21	7,255.0	100.3	0.77
RGQ4EY		7,172.0	225.2	1.63	7,312.0	157.3	1.21
RQ8RR5		7,066.8	120.0	0.87	7,305.0	150.3	1.16
S1VH8Q		6,993.6	46.8	0.34	7,183.2	28.5	0.22
SQF48E		6,896.0	-50.8	-0.37	6,984.0	-170.7	-1.32
SWH21B	X	6,198.4	-748.4	-5.43	6,014.4	-1,140.3	-8.80
T2GKFW		7,048.6	101.8	0.74	7,319.7	165.0	1.27
TKNTQT		6,923.6	-23.2	-0.17	7,163.2	8.5	0.07
TNLCNE		6,729.8	-217.0	-1.57	6,900.2	-254.5	-1.96
U61RYK		7,054.0	107.2	0.78	7,317.0	162.3	1.25
UKZESN		7,179.2	232.4	1.69	7,402.2	247.5	1.91
UPUN25		7,012.4	65.6	0.48	7,087.0	-67.7	-0.52
URU4NF	*	6,880.8	-66.0	-0.48	6,925.2	-229.5	-1.77
VNTP6X		6,912.0	-34.8	-0.25	7,047.8	-106.9	-0.83
VR7DJE		7,108.6	161.8	1.17	7,266.6	111.9	0.86
WDM4KF		6,688.8	-258.0	-1.87	6,996.6	-158.1	-1.22
WKAZGP		6,795.7	-151.1	-1.10	7,026.3	-128.5	-0.99
WV58RR	M	7,177.2	230.4	1.67	No data reported for this sample		
WVL3J8		6,942.8	-4.0	-0.03	7,207.0	52.3	0.40
X4965Z		6,870.5	-76.3	-0.55	7,099.9	-54.8	-0.42
XVVDFT		7,086.6	139.9	1.01	7,307.8	153.1	1.18
XWSS3L	*	6,590.8	-356.0	-2.58	6,871.6	-283.1	-2.18
Y61YTQ		6,788.0	-158.8	-1.15	7,076.2	-78.5	-0.61
Y725HM		7,203.6	256.8	1.86	7,256.4	101.7	0.78
YDL3S5	X	7,157.6	210.8	1.53	6,979.2	-175.5	-1.35

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

WebCode	Data Flag	Sample F47			Sample F48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
YDY185		7,051.3	104.6	0.76	7,285.0	130.2	1.00
Z28GPJ		7,051.4	104.6	0.76	7,150.5	-4.3	-0.03

Summary Statistics	
<b>Grand Means</b>	
6,946.76 psi	7,154.73 psi
<b>Std Dev Btwn Labs</b>	
137.88 psi	129.58 psi
<b>Statistics based on 85 of 97 reporting participants</b>	

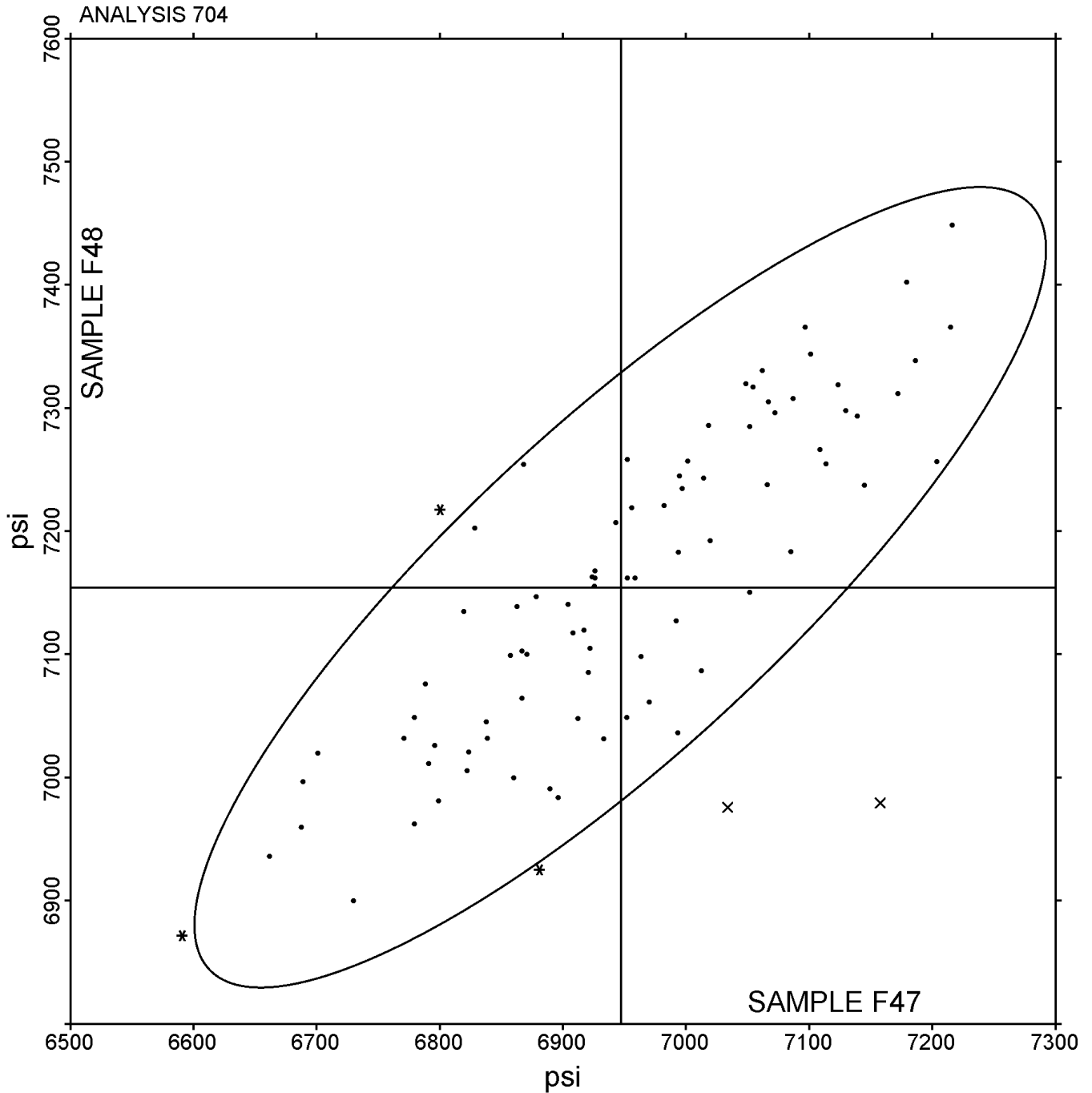
**Sample F47: ABS & Sample F48: ABS**

**Comments on assigned Data Flags for Test #704**

- 8AFUB7 (X) - Inconsistent in testing between samples.
- BS7HUL (X) - Inconsistent in testing between samples. Data for Sample F48 are low.
- H7PXV4 (X) - Low data for all samples. Possible systematic error.
- JEAEEC (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F47. Low data for Sample F47.
- JHUQ9V (X) - Low data for all samples. Inconsistent in testing within both samples.
- KCTBYM (X) - Low data for both samples. Inconsistent in testing within both samples.
- KK6VTY (X) - Extreme data.
- M3MCFQ (X) - Low data for all samples. Possible systematic error.
- P9F5MW (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F48. Low data for Sample F48.
- SWH21B (X) - Low data for all samples. Inconsistent in testing within all samples.
- WV58RR (M) - Laboratory did not submit data for Sample F48.
- YDL3S5 (X) - Inconsistent in testing between samples.

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

Grand Mean Sample F47: 6,946.76 psi    Grand Mean Sample F48: 7,154.73 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 F47			Sample F48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
11D6AW	*	5,524.8	393.1	2.18	5,727.8	573.0	2.88
1D3N8X		5,013.4	-118.2	-0.66	5,032.6	-122.2	-0.61
1TS46X		5,100.0	-31.7	-0.18	5,480.0	325.2	1.63
22W7EB		5,198.6	66.9	0.37	5,028.8	-126.0	-0.63
2B5AQS		5,183.8	52.1	0.29	5,154.2	-0.6	0.00
2L3922		5,108.0	-23.6	-0.13	5,066.4	-88.4	-0.44
2WXJB3	X	5,258.6	126.9	0.71	6,074.2	919.4	4.62
3AX2ME		5,342.0	210.3	1.17	5,604.0	449.2	2.26
4HNPUJ		5,334.5	202.9	1.13	5,189.5	34.7	0.17
4PMAGC		5,167.2	35.6	0.20	5,211.3	56.5	0.28
52LF3F		5,095.5	-36.1	-0.20	5,522.5	367.7	1.85
52U6R9		4,839.1	-292.6	-1.63	4,948.7	-206.0	-1.04
57DKUZ		5,122.8	-8.9	-0.05	5,140.2	-14.6	-0.07
734HJM		5,063.6	-68.1	-0.38	4,965.3	-189.5	-0.95
7CPAWC		5,546.0	414.3	2.30	5,386.2	231.4	1.16
7TYLJQ		5,257.0	125.3	0.70	5,193.4	38.6	0.19
84SPGY		4,888.6	-243.1	-1.35	5,176.0	21.2	0.11
8D15FJ		5,202.8	71.2	0.40	5,198.2	43.4	0.22
8D6DRH		5,393.6	261.9	1.46	5,154.0	-0.8	0.00
8MPR1D	M	5,314.0	182.3	1.01	No data reported for this sample		
9684YY		5,247.2	115.6	0.64	5,045.6	-109.2	-0.55
9JKSAN		4,873.3	-258.3	-1.44	4,786.3	-368.5	-1.85
9JM34S		4,771.8	-359.9	-2.00	4,775.2	-379.6	-1.91
9ZHQ1R	X	4,664.0	-467.7	-2.60	4,115.6	-1,039.2	-5.22
BM23M5		5,121.3	-10.3	-0.06	5,009.1	-145.7	-0.73
CP62NN		5,331.0	199.3	1.11	5,319.6	164.8	0.83
DCZEHQ		5,220.2	88.5	0.49	5,157.6	2.8	0.01
E1XZH8		4,995.2	-136.5	-0.76	4,976.0	-178.8	-0.90
E954KP		4,938.6	-193.1	-1.07	5,285.8	131.0	0.66
ETKFJN		5,241.7	110.1	0.61	5,354.8	200.1	1.01
EYWWMFY		5,207.6	75.9	0.42	5,179.6	24.8	0.12
F2BQFG		5,057.8	-73.9	-0.41	5,117.2	-37.6	-0.19

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

WebCode	Data Flag	Sample F47			Sample F48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
FNLGK1		5,198.4	66.7	0.37	5,174.6	19.8	0.10
GLEZTJ		5,250.4	118.8	0.66	4,960.3	-194.4	-0.98
GLV4GJ		5,104.4	-27.3	-0.15	5,140.4	-14.4	-0.07
GY6HV5		5,256.0	124.3	0.69	4,978.2	-176.6	-0.89
H7KVXD		5,144.0	12.3	0.07	5,042.0	-112.8	-0.57
HL6PK6		5,263.0	131.3	0.73	5,282.2	127.4	0.64
HVR2FV		5,160.0	28.3	0.16	5,214.0	59.2	0.30
J513ZE		5,215.6	83.9	0.47	5,546.3	391.5	1.97
JDPMWT	X	6,057.2	925.5	5.14	6,325.4	1,170.6	5.88
JM3T27		4,879.1	-252.5	-1.40	4,961.2	-193.6	-0.97
JTP72E		5,099.9	-31.8	-0.18	5,190.9	36.2	0.18
JXEXQV		4,961.4	-170.3	-0.95	4,730.8	-424.0	-2.13
K56RDT		4,702.8	-428.9	-2.38	4,985.4	-169.4	-0.85
KL454W		5,191.2	59.5	0.33	5,228.0	73.2	0.37
KTEF2M		5,103.8	-27.9	-0.15	5,053.2	-101.6	-0.51
L3W3B9		5,044.0	-87.7	-0.49	5,291.8	137.0	0.69
MBPP5B		5,378.0	246.3	1.37	5,261.6	106.8	0.54
MDMT4S		4,925.6	-206.1	-1.14	4,862.6	-292.2	-1.47
MHYPZH		5,169.2	37.5	0.21	5,424.5	269.7	1.36
MXQL38		5,230.0	98.3	0.55	5,145.6	-9.2	-0.05
N311AM		5,230.1	98.5	0.55	5,125.7	-29.1	-0.15
N9HEY1		5,162.8	31.1	0.17	5,055.2	-99.6	-0.50
NH32B9		5,125.2	-6.5	-0.04	5,101.4	-53.4	-0.27
PFU7B3	X	4,970.8	-160.9	-0.89	8,518.4	3,363.6	16.91
QAYAW6	X	6,104.2	972.5	5.40	6,404.6	1,249.8	6.28
QU65EJ		5,102.6	-29.1	-0.16	5,048.0	-106.8	-0.54
QZN3TZ		5,318.2	186.5	1.04	5,265.0	110.2	0.55
R2ESYJ	X	6,410.7	1,279.1	7.11	6,798.7	1,643.9	8.26
RCXDAT	*	4,892.4	-239.3	-1.33	5,359.8	205.0	1.03
S1FLZJ		5,379.5	247.8	1.38	5,232.7	77.9	0.39
S7UK51	X	4,814.6	-317.1	-1.76	4,312.8	-842.0	-4.23
SV12TF		5,341.8	210.1	1.17	5,400.4	245.6	1.23

**Plastics Interlaboratory Testing Program  
Analysis 705**

**Tensile Stress at Break - psi**

WebCode	Data Flag	Sample F47			Sample F48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
TC6C3E		5,106.2	-25.5	-0.14	5,193.0	38.2	0.19
UP1TVE		5,304.0	172.3	0.96	5,338.2	183.4	0.92
V7JJLL		4,910.4	-221.3	-1.23	4,908.6	-246.2	-1.24
V9LZS2	X	873.8	-4,257.9	-23.66	4,751.6	-403.2	-2.03
VSAVW4		5,303.0	171.3	0.95	5,216.8	62.0	0.31
VWD4LL		4,911.2	-220.5	-1.22	5,246.4	91.6	0.46
WEVY3E	X	5,233.0	101.4	0.56	4,421.4	-733.4	-3.69
WPGS3V		5,131.0	-0.7	0.00	5,023.0	-131.8	-0.66
WUGATS		5,206.4	74.7	0.42	5,198.6	43.8	0.22
WWQ97M		5,288.4	156.7	0.87	5,231.6	76.8	0.39
XUL7EL	*	4,669.0	-462.7	-2.57	4,647.8	-507.0	-2.55
Y16NGL	X	6,758.8	1,627.2	9.04	7,048.9	1,894.1	9.52
Y1W44R		4,950.0	-181.7	-1.01	5,346.0	191.2	0.96
YKRLMS		5,059.3	-72.3	-0.40	5,031.5	-123.3	-0.62
YSDBLS		5,175.8	44.1	0.25	4,923.0	-231.8	-1.16
Z8Z9W1		4,869.0	-262.7	-1.46	4,988.4	-166.4	-0.84
ZDAM45		4,934.2	-197.4	-1.10	5,177.6	22.8	0.11
ZMQJ2V		5,313.0	181.3	1.01	5,271.2	116.4	0.59

Summary Statistics	
<b>Grand Means</b>	
5,131.65 psi	5,154.78 psi
<b>Std Dev Btwn Labs</b>	
179.99 psi	198.97 psi
<b>Statistics based on 71 of 82 reporting participants</b>	

Sample F47: ABS & Sample F48: ABS

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

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**Comments on assigned Data Flags for Test #705**

2WXJB3 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F48. High data for Sample F48.

8MPR1D (M) - Laboratory did not submit data for Sample F48.

9ZHQ1R (X) - Inconsistent in testing between samples and inconsistent in testing within both samples. Low data for Sample F48.

JDPMWT (X) - High data for all samples. Inconsistent in testing within samples.

PFU7B3 (X) - Inconsistent in testing between samples, data for Sample F48 are high.

QAYAW6 (X) - High data for all samples. Inconsistent in testing within all samples.

R2ESYJ (X) - High data for all samples.

S7UK51 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F48. Low data for Sample F48.

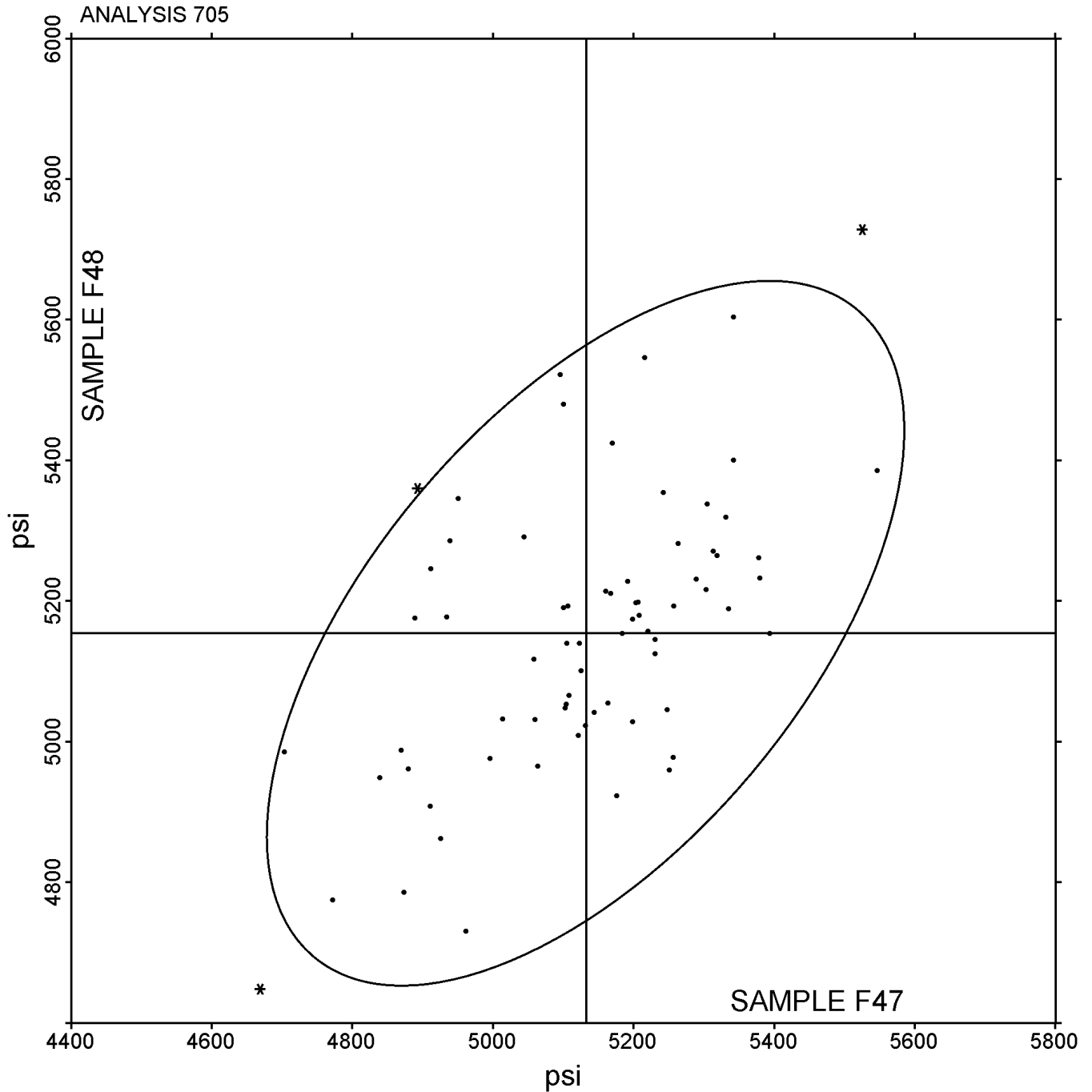
V9LZS2 (X) - Extreme data for Sample F47.

WEVY3E (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F48. Low data for Sample F48.

Y16NGL (X) - High data for all samples.

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

Grand Mean Sample F47: 5,131.65 psi    Grand Mean Sample F48: 5,154.78 psi



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

**Plastics Interlaboratory Testing Program  
Analysis 706**

**Percent Elongation at Yield - Percent**

WebCode	Data Flag	Sample F47			Sample F48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
16JCX7	X	2.772	0.143	0.91	2.504	-0.316	-3.00
1DR7ED		2.576	-0.052	-0.33	2.778	-0.042	-0.40
2EFD8J	X	0.448	-2.181	-13.86	0.444	-2.376	-22.52
2PBP2Z		2.760	0.131	0.83	2.920	0.100	0.95
48YHWZ		2.476	-0.153	-0.97	2.690	-0.130	-1.23
4MEW5Q		2.468	-0.161	-1.02	2.630	-0.190	-1.80
4PK42X		2.840	0.211	1.34	2.980	0.160	1.52
4TMCUT		3.000	0.371	2.36	3.000	0.180	1.71
58R99K		2.370	-0.259	-1.64	2.694	-0.126	-1.19
5FCRTT	X	6.524	3.895	24.75	6.346	3.526	33.41
6PN4Y5		2.776	0.147	0.94	2.954	0.134	1.27
6WD8LR		2.286	-0.343	-2.18	2.564	-0.256	-2.43
77GASE		2.396	-0.233	-1.48	2.772	-0.048	-0.46
7DYSTP		2.688	0.059	0.38	2.874	0.054	0.51
8AUGK7		2.738	0.109	0.69	2.916	0.096	0.91
8M3812	X	18.120	15.491	98.43	14.994	12.174	115.37
9BK2PH		2.794	0.165	1.05	2.834	0.014	0.13
9EUTCR		2.580	-0.049	-0.31	2.740	-0.080	-0.76
9VWPEY		2.456	-0.173	-1.10	2.738	-0.082	-0.78
AHWNW1	X	3.350	0.721	4.58	3.525	0.705	6.68
AR1SGC		2.546	-0.083	-0.53	2.742	-0.078	-0.74
BDBNYX	X	3.484	0.855	5.43	3.894	1.074	10.18
BEHPJN		2.578	-0.051	-0.33	2.810	-0.010	-0.10
BEQK8J	X	2.516	-0.113	-0.72	2.968	0.148	1.40
BGV2S8	*	3.084	0.455	2.89	3.116	0.296	2.80
BMZKD6	X	2.700	0.071	0.45	3.072	0.252	2.39
BQEPY4	*	2.254	-0.375	-2.38	2.650	-0.170	-1.61
CY8HZN		2.628	-0.001	0.00	2.762	-0.058	-0.55
D436K8		2.540	-0.089	-0.56	2.800	-0.020	-0.19
DL5CVS		2.616	-0.013	-0.08	2.866	0.046	0.44
DQA774		2.430	-0.199	-1.26	2.676	-0.144	-1.37
E75XDC	X	7.046	4.417	28.07	7.018	4.198	39.78

**Plastics Interlaboratory Testing Program  
Analysis 706**

**Percent Elongation at Yield - Percent**

WebCode	Data Flag	Sample F47			Sample F48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
EFNLQJ		2.776	0.147	0.94	2.850	0.030	0.28
F33DPJ		2.632	0.003	0.02	2.832	0.012	0.11
F7W7SK		2.688	0.059	0.38	2.812	-0.008	-0.08
FHBCNP		2.730	0.101	0.64	2.942	0.122	1.16
FV23FD		2.512	-0.117	-0.74	2.840	0.020	0.19
FVBT1W		2.678	0.049	0.31	2.762	-0.058	-0.55
FZFAQ6D		2.470	-0.159	-1.01	2.702	-0.118	-1.12
G93MP8		2.678	0.049	0.31	2.914	0.094	0.89
GB9C2Y		2.720	0.091	0.58	2.898	0.078	0.74
GC7554		2.694	0.065	0.41	2.834	0.014	0.13
HAXUV1		2.664	0.035	0.22	2.868	0.048	0.45
HX6BYP		2.696	0.067	0.43	2.810	-0.010	-0.10
JHRYB4		2.656	0.027	0.17	2.788	-0.032	-0.31
JFZTA	X	3.216	0.587	3.73	3.500	0.680	6.44
K8GY57		2.550	-0.079	-0.50	2.800	-0.020	-0.19
KR9VEM		2.852	0.223	1.42	3.010	0.190	1.80
LJND5J		2.426	-0.203	-1.29	2.642	-0.178	-1.69
LKBWMK		2.658	0.029	0.19	2.776	-0.044	-0.42
LWZ58A	X	2.108	-0.521	-3.31	2.272	-0.548	-5.19
MDSKH8		2.610	-0.019	-0.12	2.830	0.010	0.09
MXY2DY		2.711	0.082	0.52	2.849	0.029	0.27
N9A71U		2.600	-0.029	-0.18	2.806	-0.014	-0.13
N9LJG9	*	2.564	-0.065	-0.41	2.914	0.094	0.89
NNS7Q7	*	3.006	0.377	2.40	3.108	0.288	2.73
PHL5VF		2.620	-0.009	-0.06	2.826	0.006	0.06
QTS2WR		2.616	-0.013	-0.08	2.820	0.000	0.00
R681WY		2.628	-0.001	0.00	2.842	0.022	0.21
RJ9B4Z		2.734	0.105	0.67	2.856	0.036	0.34
RY92BJ	X	2.114	-0.515	-3.27	2.166	-0.654	-6.20
TATCTL		2.978	0.349	2.22	2.988	0.168	1.59
TJQE6A		2.720	0.091	0.58	2.846	0.026	0.25
U5JJ99		2.656	0.027	0.17	2.814	-0.006	-0.06

**Plastics Interlaboratory Testing Program  
Analysis 706**

**Percent Elongation at Yield - Percent**

WebCode	Data Flag	Sample F47			Sample F48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
UHBJ44		2.582	-0.047	-0.30	2.808	-0.012	-0.11
V576VG		2.512	-0.117	-0.74	2.800	-0.020	-0.19
VJJBRF		2.520	-0.109	-0.69	2.712	-0.108	-1.02
VLQF7M		2.626	-0.003	-0.02	2.810	-0.010	-0.10
W5GBAC		2.436	-0.193	-1.22	2.620	-0.200	-1.90
WPF7M2		2.578	-0.051	-0.32	2.744	-0.076	-0.72
WWM23M		2.634	0.005	0.03	2.830	0.010	0.09
WXBALX		2.588	-0.041	-0.26	2.862	0.042	0.40
XU5K31		2.563	-0.066	-0.42	2.769	-0.051	-0.49
XZGNT3		2.722	0.093	0.59	2.868	0.048	0.45
YWAEEQ		2.600	-0.029	-0.18	2.828	0.008	0.08
YZXV3R		2.498	-0.131	-0.83	2.780	-0.040	-0.38
ZSGM78		2.608	-0.021	-0.13	2.790	-0.030	-0.29

**Summary Statistics**

**Grand Means**

2.6288 Percent

2.8201 Percent

**Std Dev Btwn Labs**

0.1574 Percent

0.1055 Percent

**Statistics based on 65 of 77 reporting participants**

**Sample F47: ABS & Sample F48: ABS**

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

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**Comments on assigned Data Flags for Test #706**

16JCX7 (X) - Inconsistent in testing between samples, data for Sample F48 are low.

2EFD8J (X) - Extreme data.

5FCRTT (X) - Extreme data.

8M3812 (X) - Extreme data.

AHWNW1 (X) - High data for all samples. Inconsistent in testing within both samples.

BDBNYX (X) - High data for all samples.

BEQK8J (X) - Inconsistent in testing between samples.

BMZKD6 (X) - Inconsistent in testing between samples.

E75XDC (X) - Extreme data.

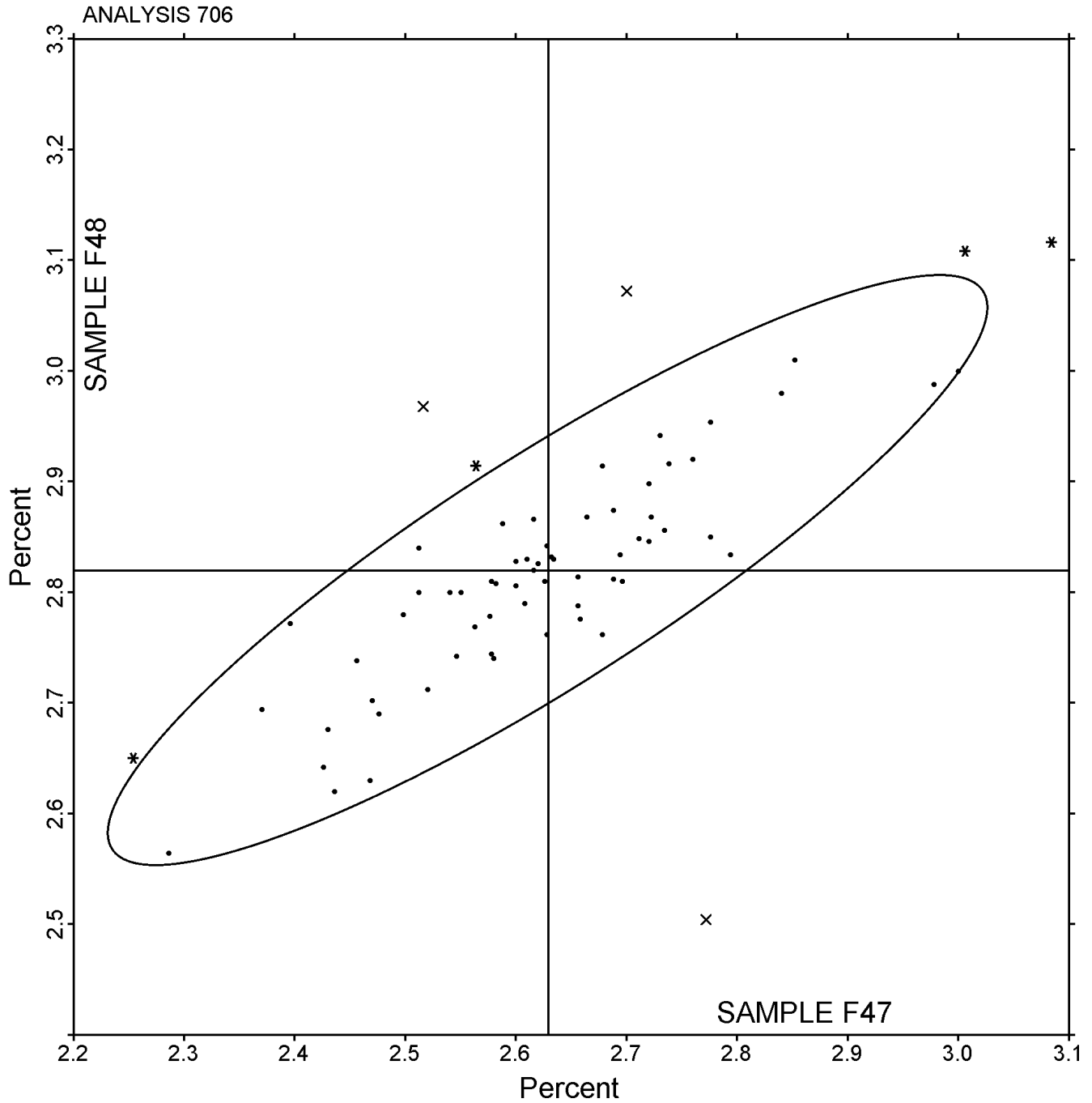
JJFZTA (X) - High data for all samples.

LWZ58A (X) - Low data for all samples.

RY92BJ (X) - Low data for all samples.

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

Grand Mean Sample F47: 2.6288 Percent    Grand Mean Sample F48: 2.8201 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 F47			Sample F48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
16UW9H	*	300.52	-58.83	-2.80	300.90	-46.07	-2.33
2UJSN8	X	273.61	-85.74	-4.08	394.76	47.78	2.41
3EM7W6		363.35	4.01	0.19	343.86	-3.11	-0.16
3R346Y		379.10	19.76	0.94	362.34	15.36	0.78
44GM84		364.66	5.31	0.25	346.64	-0.33	-0.02
4C6LA9	*	309.66	-49.69	-2.37	317.90	-29.07	-1.47
4M685K		388.93	29.58	1.41	367.50	20.52	1.04
4ZKL23		361.78	2.43	0.12	361.62	14.65	0.74
57PN3R		345.83	-13.51	-0.64	335.33	-11.64	-0.59
5DPLR4		388.36	29.01	1.38	385.02	38.05	1.92
5N54FN		390.56	31.22	1.49	386.26	39.29	1.98
6GA4JK		364.10	4.75	0.23	355.50	8.53	0.43
6VKKU8		356.90	-2.45	-0.12	349.92	2.95	0.15
7CDPLW		377.12	17.77	0.85	364.24	17.27	0.87
7P61R2		347.70	-11.65	-0.55	341.38	-5.59	-0.28
8LN2CH		339.96	-19.39	-0.92	329.58	-17.39	-0.88
8WAW31		349.78	-9.56	-0.46	355.03	8.06	0.41
9JQ8VT		371.24	11.89	0.57	345.15	-1.82	-0.09
9UV44R		368.46	9.11	0.43	364.64	17.67	0.89
9YXDK7		325.95	-33.40	-1.59	313.42	-33.55	-1.69
ANDS29		326.20	-33.15	-1.58	314.60	-32.37	-1.63
BC2MZZ		331.53	-27.82	-1.32	325.12	-21.85	-1.10
BZVG3C		360.84	1.49	0.07	344.16	-2.81	-0.14
CHYPD4		357.00	-2.35	-0.11	342.20	-4.77	-0.24
CTF2KU		386.78	27.43	1.31	374.02	27.05	1.37
D9QFS9		373.13	13.78	0.66	362.31	15.33	0.77
DEGSPR		349.17	-10.17	-0.48	341.54	-5.43	-0.27
DMFFBD		360.90	1.55	0.07	352.76	5.79	0.29
E1PMPW		337.50	-21.85	-1.04	329.80	-17.17	-0.87
EQLJBK	X	148.90	-210.44	-10.02	155.98	-190.99	-9.64
EQZ5CN	X	2,514.52	2,155.17	102.62	2,401.82	2,054.85	103.76
EX1AJH		321.32	-38.03	-1.81	308.02	-38.95	-1.97

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

WebCode	Data Flag	Sample F47			Sample F48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
F6UARH		393.24	33.89	1.61	382.74	35.77	1.81
FBPGJL	X	440.12	80.77	3.85	419.00	72.03	3.64
FTR7QG		382.46	23.11	1.10	348.72	1.75	0.09
FUEZ47		350.27	-9.08	-0.43	351.74	4.77	0.24
FXFWP9		380.54	21.19	1.01	365.68	18.71	0.94
GKZ3FD	*	325.14	-34.21	-1.63	296.84	-50.13	-2.53
H29591		360.70	1.35	0.06	356.36	9.39	0.47
HGXVW9		366.48	7.13	0.34	340.24	-6.73	-0.34
HLVQSV		355.80	-3.55	-0.17	342.84	-4.13	-0.21
HUTU7B		362.00	2.65	0.13	353.20	6.23	0.31
JS19TT		360.09	0.75	0.04	344.95	-2.02	-0.10
KDWHK5	X	273.30	-86.05	-4.10	292.75	-54.22	-2.74
KW1TKV		346.54	-12.81	-0.61	334.24	-12.73	-0.64
KZ7WYS		354.12	-5.23	-0.25	335.89	-11.08	-0.56
N5QHA7		391.56	32.21	1.53	374.16	27.19	1.37
N8Z7DZ	X	35.56	-323.79	-15.42	34.36	-312.61	-15.79
NKKRFN		373.25	13.91	0.66	354.88	7.91	0.40
NQ5ZAD		364.48	5.13	0.24	355.92	8.95	0.45
NQSDVC		363.18	3.83	0.18	358.04	11.07	0.56
NYTYMT		378.22	18.87	0.90	371.50	24.53	1.24
PYZB3Z		357.13	-2.22	-0.11	354.31	7.34	0.37
Q3WY18	X	337.14	-22.21	-1.06	356.22	9.25	0.47
QC2Y74	X	324.12	-35.23	-1.68	360.22	13.25	0.67
QDV3J9	X	465.87	106.53	5.07	362.50	15.53	0.78
QJ843E		350.70	-8.65	-0.41	337.62	-9.35	-0.47
RR7FZ2		347.04	-12.31	-0.59	337.20	-9.77	-0.49
S1T894		327.04	-32.31	-1.54	307.04	-39.93	-2.02
SD4AV6		362.54	3.19	0.15	345.80	-1.17	-0.06
TAGGDR		355.50	-3.85	-0.18	345.40	-1.57	-0.08
TJ2CZU		372.11	12.77	0.61	354.59	7.62	0.38
TQQCPD		367.71	8.36	0.40	338.00	-8.98	-0.45
UZ85QN		368.30	8.95	0.43	355.30	8.33	0.42

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

WebCode	Data Flag	Sample F47			Sample F48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
VTJ94B		384.82	25.47	1.21	360.36	13.39	0.68
WWJSR4		361.24	1.89	0.09	348.46	1.49	0.08
Z7ZKU3		396.98	37.63	1.79	367.52	20.55	1.04
Z9HGU9		343.89	-15.46	-0.74	331.08	-15.89	-0.80

Summary Statistics	
<b>Grand Means</b>	
359.346 ksi	346.973 ksi
<b>Std Dev Btwn Labs</b>	
21.001 ksi	19.803 ksi
<b>Statistics based on 59 of 68 reporting participants</b>	

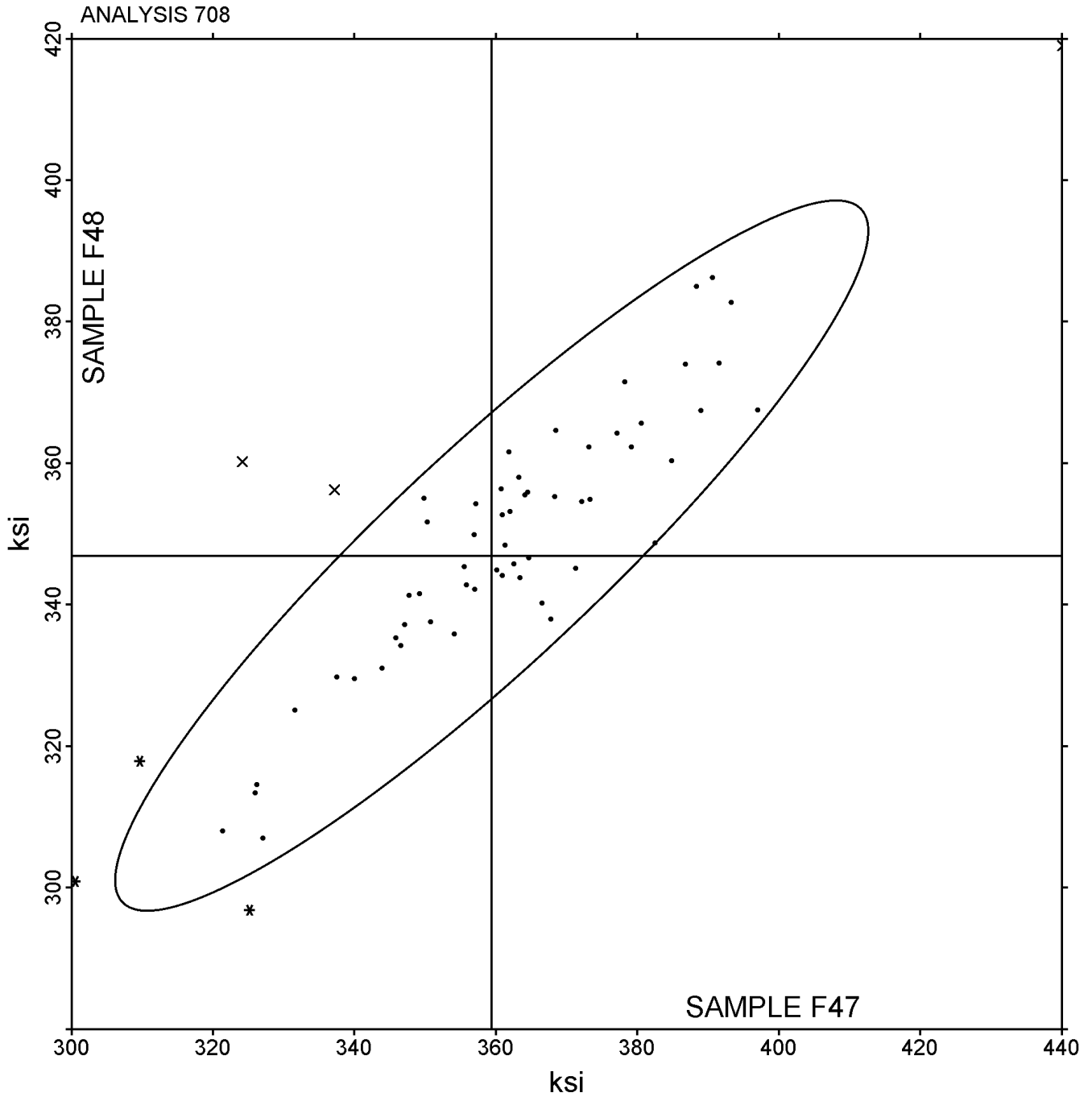
**Sample F47:** ABS & **Sample F48:** ABS

**Comments on assigned Data Flags for Test #708**

- 2UJSN8 (X) - Inconsistent in testing between samples and inconsistent in testing within both samples. Low data for F47.
- EQLJBK (X) - Low data for all samples.
- EQZ5CN (X) - Extreme data. Laboratory did not specify units. Default ksi units were used.
- FBPGJL (X) - High data for all samples. Possible systematic error.
- KDWHK5 (X) - Low data for all samples. Inconsistent in testing within both samples.
- N8Z7DZ (X) - Extreme data. Data appear to be off by a factor of 10.
- Q3WY18 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F48.
- QC2Y74 (X) - Inconsistent in testing between samples.
- QDV3J9 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample F47. High data for Sample F47.

Plastics Interlaboratory Testing Program  
Analysis 708  
Modulus of Elasticity - ksi

Grand Mean Sample F47: 359.35 ksi Grand Mean Sample F48: 346.97 ksi



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

## Analysis 730

## Tensile Stress at Yield - MPa

WebCode	Data Flag	Sample C47			Sample C48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
18U9AR		44.91	-0.67	-0.93	47.95	-0.37	-0.48
2HEE18		44.32	-1.27	-1.76	46.73	-1.60	-2.05
2L8WQN	*	44.33	-1.26	-1.74	46.11	-2.22	-2.85
36YYLK		46.19	0.60	0.83	48.87	0.55	0.70
38XS5D		44.84	-0.75	-1.03	47.70	-0.62	-0.80
3BNTN8		45.41	-0.18	-0.25	47.39	-0.94	-1.20
3VMEEC		45.69	0.10	0.14	48.40	0.07	0.09
3YFG3K		46.42	0.83	1.15	49.50	1.18	1.52
3ZP7X9		44.71	-0.88	-1.21	47.57	-0.75	-0.96
4VQLWP		44.87	-0.72	-0.99	47.75	-0.57	-0.74
52G6SX		46.69	1.10	1.52	49.32	0.99	1.28
5TBAZC	*	46.89	1.30	1.80	48.59	0.27	0.34
63MH4L		44.68	-0.91	-1.26	47.54	-0.78	-1.00
6AQD85		45.32	-0.27	-0.37	47.77	-0.55	-0.71
6NAFBH		45.62	0.03	0.05	48.73	0.41	0.53
79PZ65		45.61	0.02	0.02	48.54	0.22	0.28
7BAAT4		46.27	0.68	0.94	48.41	0.09	0.11
8AQ9V8		45.40	-0.19	-0.26	48.68	0.36	0.46
922V4W		46.12	0.53	0.74	49.04	0.72	0.92
99DP39		46.83	1.24	1.71	49.79	1.46	1.88
9HYYZ6		44.86	-0.73	-1.01	47.86	-0.46	-0.59
9MY2BX		46.29	0.70	0.96	48.92	0.60	0.77
A5EMMN		46.55	0.96	1.32	49.41	1.09	1.40
AWSM9R		47.03	1.44	1.99	49.23	0.91	1.17
B3WZ8E		46.84	1.25	1.72	49.20	0.88	1.13
D2RKG1		45.77	0.18	0.25	48.45	0.13	0.16
DWVCVW		45.57	-0.02	-0.02	48.03	-0.29	-0.38
E3TCTP		45.26	-0.33	-0.45	47.85	-0.48	-0.61
EUATXZ		45.22	-0.37	-0.51	48.21	-0.11	-0.14
G3JVF4		45.95	0.36	0.50	48.64	0.32	0.41
G99JH9	*	44.89	-0.70	-0.97	48.65	0.32	0.42
GCLQMU		45.80	0.21	0.29	48.30	-0.02	-0.03

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

WebCode	Data Flag	Sample C47			Sample C48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
J3LW2E		46.70	1.11	1.53	49.71	1.39	1.78
KKED1U		45.60	0.02	0.02	47.37	-0.95	-1.22
KTAPN6	X	46.04	0.45	0.62	46.76	-1.57	-2.01
LHLR6S		44.40	-1.19	-1.65	47.13	-1.19	-1.54
MHZ1U6		45.50	-0.09	-0.13	48.34	0.02	0.02
MWZJ74		45.85	0.26	0.36	48.68	0.35	0.45
N7Z8ZR		46.56	0.97	1.34	49.42	1.10	1.41
NE2XQ2		44.95	-0.64	-0.88	47.85	-0.47	-0.60
P74C9E	X	43.82	-1.77	-2.45	47.85	-0.48	-0.61
PKUT72		45.28	-0.31	-0.43	47.78	-0.55	-0.70
Q7B6AK		45.94	0.35	0.49	48.51	0.19	0.24
RD7LZE		46.04	0.45	0.62	49.10	0.78	1.00
RNG6M2		45.94	0.35	0.49	48.77	0.45	0.57
RYW9W8		44.98	-0.61	-0.85	47.54	-0.78	-1.00
SPZXN7		45.94	0.35	0.48	49.01	0.69	0.88
T1G6RV		44.66	-0.92	-1.28	46.75	-1.57	-2.02
VSJCB1		44.99	-0.59	-0.82	47.85	-0.47	-0.61
W1UVE5		45.12	-0.47	-0.65	48.22	-0.10	-0.13
W2U52W		45.27	-0.32	-0.44	48.79	0.47	0.61
X18LCF		45.91	0.32	0.44	48.29	-0.03	-0.04
X85G52		44.86	-0.73	-1.01	47.89	-0.43	-0.56
XYZTDH		44.56	-1.03	-1.42	47.83	-0.49	-0.64
ZA1HUG		45.58	-0.01	-0.01	48.74	0.42	0.54
ZVK956		46.01	0.43	0.59	48.71	0.39	0.50

Summary Statistics	
<b>Grand Means</b>	
45.588 MPa	48.322 MPa
<b>Std Dev Btwn Labs</b>	
0.724 MPa	0.778 MPa
<b>Statistics based on 54 of 56 reporting participants</b>	

Sample C47: ABS & Sample C48: ABS

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

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**Comments on assigned Data Flags for Test #730**

KTAPN6 (X) - Inconsistent in testing between samples.

P74C9E (X) - Inconsistent in testing between samples.



**Plastics Interlaboratory Testing Program  
Analysis 731**

**Tensile Stress at Break - MPa**

WebCode	Data Flag	Sample C47			Sample C48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2AZHC1		36.61	2.41	2.13	37.76	2.83	1.68
3B5CJH		34.19	-0.01	-0.01	34.79	-0.14	-0.08
3HBFRR	X	32.54	-1.67	-1.47	37.40	2.47	1.47
45BGMA		33.84	-0.36	-0.32	33.61	-1.32	-0.78
4HSE8Z		33.66	-0.55	-0.48	36.12	1.19	0.71
4RFUWZ		33.82	-0.38	-0.34	33.80	-1.13	-0.67
59SKLN		33.50	-0.71	-0.63	33.41	-1.52	-0.90
5CS74B		33.92	-0.28	-0.25	34.15	-0.78	-0.46
6RD8NW		33.03	-1.17	-1.04	34.33	-0.59	-0.35
7B3FHA		33.19	-1.01	-0.89	33.06	-1.87	-1.11
7YLCQM		32.49	-1.72	-1.52	31.85	-3.08	-1.83
85NS3Y		34.15	-0.05	-0.05	36.12	1.20	0.71
875NFK		35.22	1.01	0.90	36.28	1.35	0.80
8C64B1	X	22.83	-11.37	-10.04	23.13	-11.80	-6.99
95LUF6		35.30	1.10	0.97	36.04	1.11	0.66
AHRF6Z		34.74	0.54	0.47	35.71	0.78	0.46
AQMSF2		33.50	-0.71	-0.62	34.53	-0.40	-0.24
B9W19N		33.50	-0.71	-0.63	32.55	-2.38	-1.41
BBRQP1		33.82	-0.38	-0.34	35.71	0.78	0.46
DH6FFT		34.05	-0.16	-0.14	37.15	2.23	1.32
DLA8LD		33.23	-0.97	-0.86	35.21	0.28	0.17
DYL2CD		33.44	-0.76	-0.67	34.12	-0.81	-0.48
DZZL31		34.62	0.42	0.37	36.66	1.73	1.03
F7E7KN		34.35	0.15	0.13	35.93	1.00	0.59
FLDCGC		32.32	-1.89	-1.67	32.81	-2.11	-1.25
G9BUEH		35.25	1.04	0.92	35.90	0.97	0.57
JCU5MS		34.18	-0.03	-0.02	35.21	0.28	0.17
L3EUH6		34.69	0.49	0.43	35.46	0.53	0.32
L41WQD		35.35	1.15	1.01	36.27	1.35	0.80
LXBXSS		34.26	0.05	0.05	34.82	-0.11	-0.06
P8PGB5		35.48	1.28	1.13	38.57	3.64	2.16
PH3A82		35.81	1.61	1.42	36.86	1.93	1.15

**Plastics Interlaboratory Testing Program  
Analysis 731**

**Tensile Stress at Break - MPa**

WebCode	Data Flag	Sample C47			Sample C48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PLGVU2		32.76	-1.45	-1.28	33.33	-1.60	-0.95
QKSBY3		34.26	0.06	0.05	33.43	-1.49	-0.89
QZW9LC		33.06	-1.15	-1.01	33.09	-1.84	-1.09
R4NNAF		33.35	-0.86	-0.76	34.22	-0.71	-0.42
R6S5NS		34.76	0.56	0.49	33.90	-1.03	-0.61
RPXMP		32.42	-1.78	-1.58	32.51	-2.42	-1.44
SVZYPF		34.60	0.40	0.35	33.80	-1.13	-0.67
WD7XDQ		34.94	0.73	0.65	36.53	1.60	0.95
WV912F		33.03	-1.17	-1.04	33.25	-1.68	-0.99
XJ2RRH		36.40	2.20	1.94	37.50	2.57	1.52
XJX2VE		35.21	1.00	0.88	33.72	-1.21	-0.72
XS95BB		34.07	-0.13	-0.12	33.61	-1.31	-0.78
Y48K7F		32.28	-1.92	-1.70	33.66	-1.27	-0.75
Y7JQCW		36.75	2.55	2.25	39.03	4.10	2.43
YBGPRC		35.79	1.59	1.40	35.40	0.48	0.28

**Summary Statistics**

**Grand Means**

34.204 MPa

34.928 MPa

**Std Dev Btwn Labs**

1.132 MPa

1.687 MPa

**Statistics based on 45 of 47 reporting participants**

**Sample C47: ABS & Sample C48: ABS**

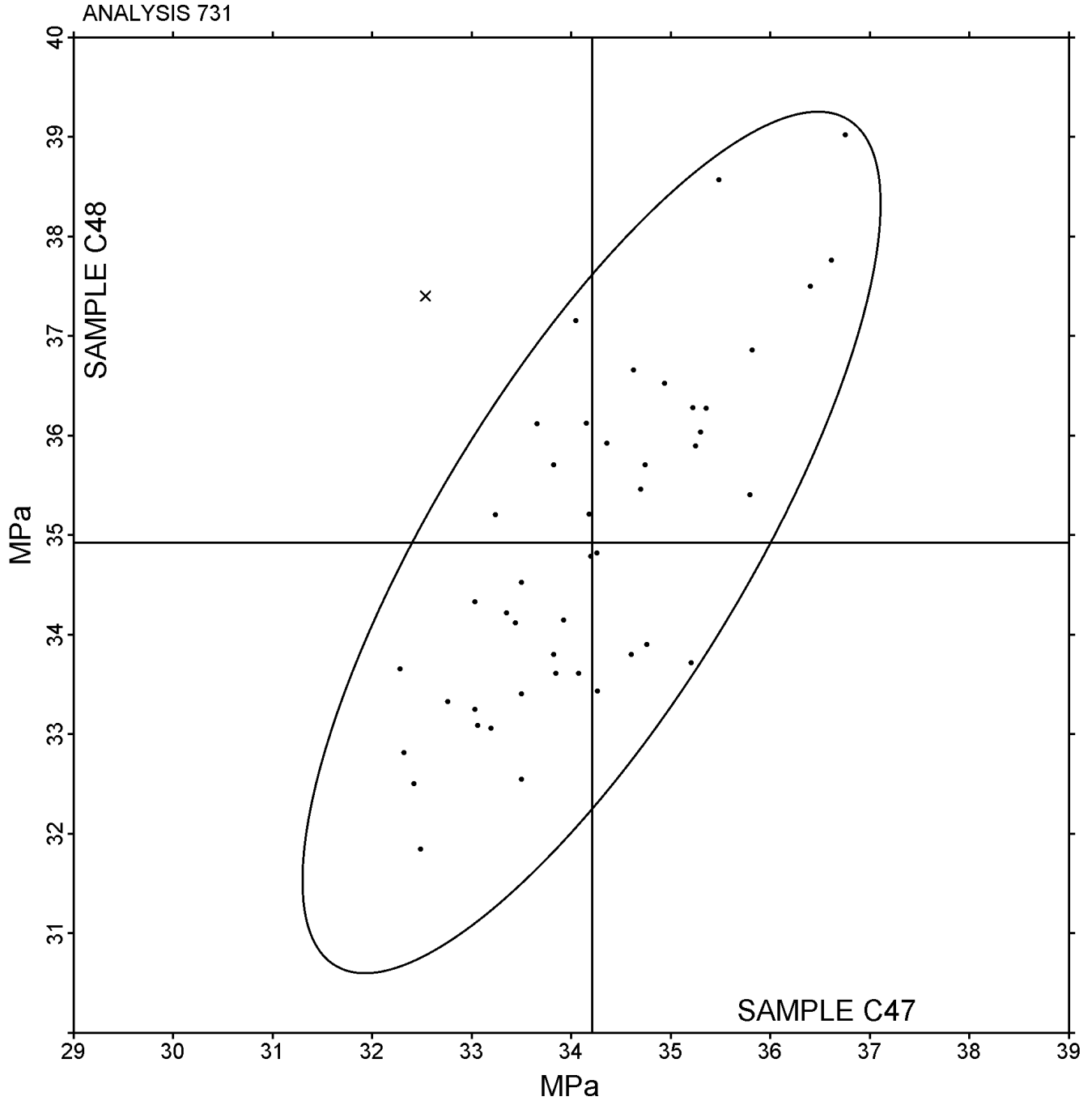
**Comments on assigned Data Flags for Test #731**

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

8C64B1 (X) - Low data for all samples.

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

Grand Mean Sample C47: 34.204 MPa    Grand Mean Sample C48: 34.928 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 C47			Sample C48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1WG56F	X	5.612	3.158	38.26	6.186	3.486	44.26
4JDJAR		2.466	0.012	0.15	2.720	0.020	0.25
52DMRP		2.348	-0.106	-1.28	2.646	-0.054	-0.69
58PFDZ		2.306	-0.148	-1.79	2.590	-0.110	-1.40
63N4DX		2.416	-0.038	-0.46	2.740	0.040	0.50
88RZG7	X	2.812	0.358	4.34	2.950	0.250	3.17
8UY4RL	X	2.715	0.261	3.16	3.012	0.312	3.96
9VYRDY		2.460	0.006	0.07	2.700	0.000	0.00
9YADE9		2.458	0.004	0.05	2.716	0.016	0.20
AC5XB4		2.460	0.006	0.07	2.654	-0.046	-0.59
AF384H		2.536	0.082	0.99	2.828	0.128	1.62
ASNB3H		2.494	0.040	0.48	2.632	-0.068	-0.87
B5AZRG		2.432	-0.022	-0.27	2.674	-0.026	-0.33
BM38TR		2.402	-0.052	-0.63	2.654	-0.046	-0.59
BRJDQ2		2.410	-0.044	-0.53	2.674	-0.026	-0.33
C19Q2C		2.360	-0.094	-1.14	2.636	-0.064	-0.82
C3TFVG		2.398	-0.056	-0.68	2.688	-0.012	-0.16
D24RNT		2.540	0.086	1.04	2.830	0.130	1.65
DUMULP		2.420	-0.034	-0.41	2.702	0.002	0.02
ESF9JX		2.590	0.136	1.65	2.770	0.070	0.88
F6DY8C		2.324	-0.130	-1.58	2.568	-0.132	-1.68
FCFHFV	X	18.536	16.082	194.85	14.244	11.544	146.58
FY6PDD		2.502	0.048	0.58	2.716	0.016	0.20
FYFWX6		2.490	0.036	0.43	2.751	0.050	0.64
G2UJ2H		2.336	-0.118	-1.43	2.534	-0.166	-2.11
GD4HSW		2.492	0.038	0.46	2.828	0.128	1.62
GLVJT3		2.402	-0.052	-0.63	2.648	-0.052	-0.67
LBPHTJ		2.448	-0.006	-0.07	2.770	0.070	0.88
NHMSE2		2.560	0.106	1.28	2.740	0.040	0.50
PLABJY		2.408	-0.046	-0.56	2.640	-0.060	-0.77
PX2PHP	*	2.610	0.156	1.89	2.696	-0.004	-0.06
R1PTRY	*	2.673	0.219	2.66	2.896	0.196	2.48

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

WebCode	Data Flag	Sample C47			Sample C48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
RA5414		2.516	0.062	0.75	2.756	0.056	0.71
RHR3JQ		2.342	-0.112	-1.36	2.684	-0.016	-0.21
SG41XN		2.382	-0.072	-0.87	2.588	-0.112	-1.43
SX6ZMA		2.469	0.015	0.19	2.720	0.019	0.25
TLR6SB	X	2.260	-0.194	-2.35	3.000	0.300	3.80
TUD658		2.502	0.048	0.58	2.622	-0.078	-1.00
UYRP4N	X	3.040	0.586	7.10	3.200	0.500	6.34
WS12BF		2.458	0.004	0.05	2.674	-0.026	-0.33
WSYGHL		2.536	0.082	0.99	2.858	0.158	2.00
X4WJTU		2.526	0.072	0.87	2.724	0.024	0.30
YJKS1H		2.404	-0.050	-0.61	2.684	-0.016	-0.21
Z2RDUA		2.468	0.014	0.17	2.702	0.002	0.02
ZRNBE9		2.362	-0.092	-1.11	2.662	-0.038	-0.49

Summary Statistics			
<b>Grand Means</b>	2.4540	Percent	2.7004
			Percent
<b>Std Dev Btwn Labs</b>	0.0825	Percent	0.0788
			Percent
<b>Statistics based on 39 of 45 reporting participants</b>			

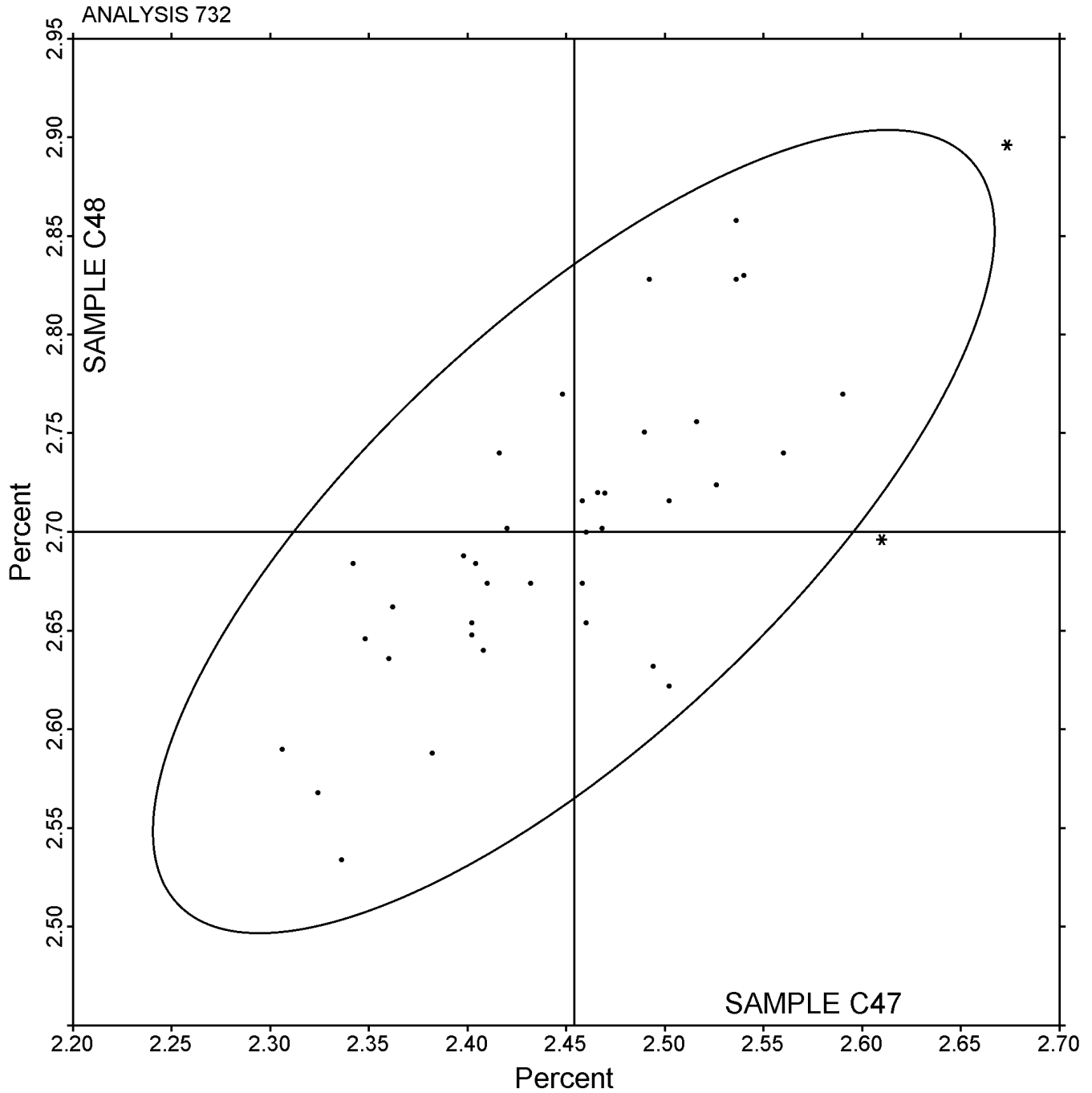
**Sample C47:** ABS & **Sample C48:** ABS

**Comments on assigned Data Flags for Test #732**

- 1WG56F (X) - Extreme data.
- 88RZG7 (X) - High data for all samples.
- 8UY4RL (X) - High data for all samples. Possible systematic error.
- FCFHFV (X) - Extreme data.
- TLR6SB (X) - Inconsistent in testing between samples and inconsistent in testing within both samples. High data for C48.
- UYRP4N (X) - High data for all samples. Inconsistent in testing within samples.

Plastics Interlaboratory Testing Program  
Analysis 732  
Percent Strain at Yield

Grand Mean Sample C47: 2.4540 Percent    Grand Mean Sample C48: 2.7004 Percent



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

**Plastics Interlaboratory Testing Program**  
**Analysis 734**  
**Modulus of Elasticity - MPa**

WebCode	Data Flag	Sample C47			Sample C48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2S28B2		2,374	-34	-0.26	2,245	-89	-0.64
2UQ7SF	X	1,925	-483	-3.61	2,212	-122	-0.88
3BPBH2		2,477	69	0.52	2,511	177	1.27
3PBC5A		2,261	-147	-1.10	2,212	-122	-0.88
4EWH5V		2,488	80	0.60	2,324	-10	-0.07
5494CA		2,462	53	0.40	2,317	-18	-0.13
54SXB2		2,516	108	0.81	2,480	146	1.05
5G2JPR		2,555	147	1.10	2,447	113	0.81
74ED3K		2,302	-106	-0.79	2,232	-102	-0.74
88HVKM		2,406	-3	-0.02	2,447	112	0.81
8VLZN2		2,400	-8	-0.06	2,339	5	0.03
8YHQQ7		2,465	56	0.42	2,382	47	0.34
AGF115		2,464	55	0.41	2,347	13	0.09
AUMVJW		2,464	55	0.41	2,384	50	0.36
CR8XH5		2,634	226	1.69	2,529	195	1.40
CXTPCF		2,442	33	0.25	2,305	-29	-0.21
DQWR7F		2,338	-70	-0.52	2,263	-71	-0.51
F8L99M		2,649	241	1.80	2,585	250	1.80
GPUY3M		2,393	-15	-0.11	2,332	-3	-0.02
HJKZH6	X	2,717	309	2.31	2,434	99	0.71
K3ABJG		2,556	147	1.10	2,458	124	0.89
L75HLQ		2,514	106	0.79	2,500	166	1.19
LBJ5DB		2,202	-207	-1.55	2,057	-277	-1.99
LSZ6H7		2,225	-184	-1.37	2,090	-244	-1.75
LTZSM1		2,466	57	0.43	2,387	52	0.38
LZZYX9		2,267	-141	-1.06	2,235	-99	-0.71
MFVBH8		2,419	10	0.08	2,366	32	0.23
MYBZZ9		2,631	223	1.67	2,479	145	1.04
NKR9N6		2,109	-299	-2.24	2,058	-277	-1.99
NXVQ9L		2,382	-27	-0.20	2,314	-21	-0.15
P9YFDU		2,367	-41	-0.31	2,391	57	0.41
TBH5BB		2,375	-34	-0.25	2,341	7	0.05

**Plastics Interlaboratory Testing Program**  
**Analysis 734**  
**Modulus of Elasticity - MPa**

WebCode	Data Flag	Sample C47			Sample C48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
UFA8NT		2,417	9	0.07	2,365	30	0.22
V8WQZF		2,338	-70	-0.52	2,291	-43	-0.31
X8NWBj		2,116	-292	-2.18	2,017	-317	-2.28

**Summary Statistics**

**Grand Means**

2,408.4 MPa

2,334.2 MPa

**Std Dev Btwn Labs**

133.7 MPa

139.3 MPa

**Statistics based on 33 of 35 reporting participants**

**Sample C47: ABS & Sample C48: ABS**

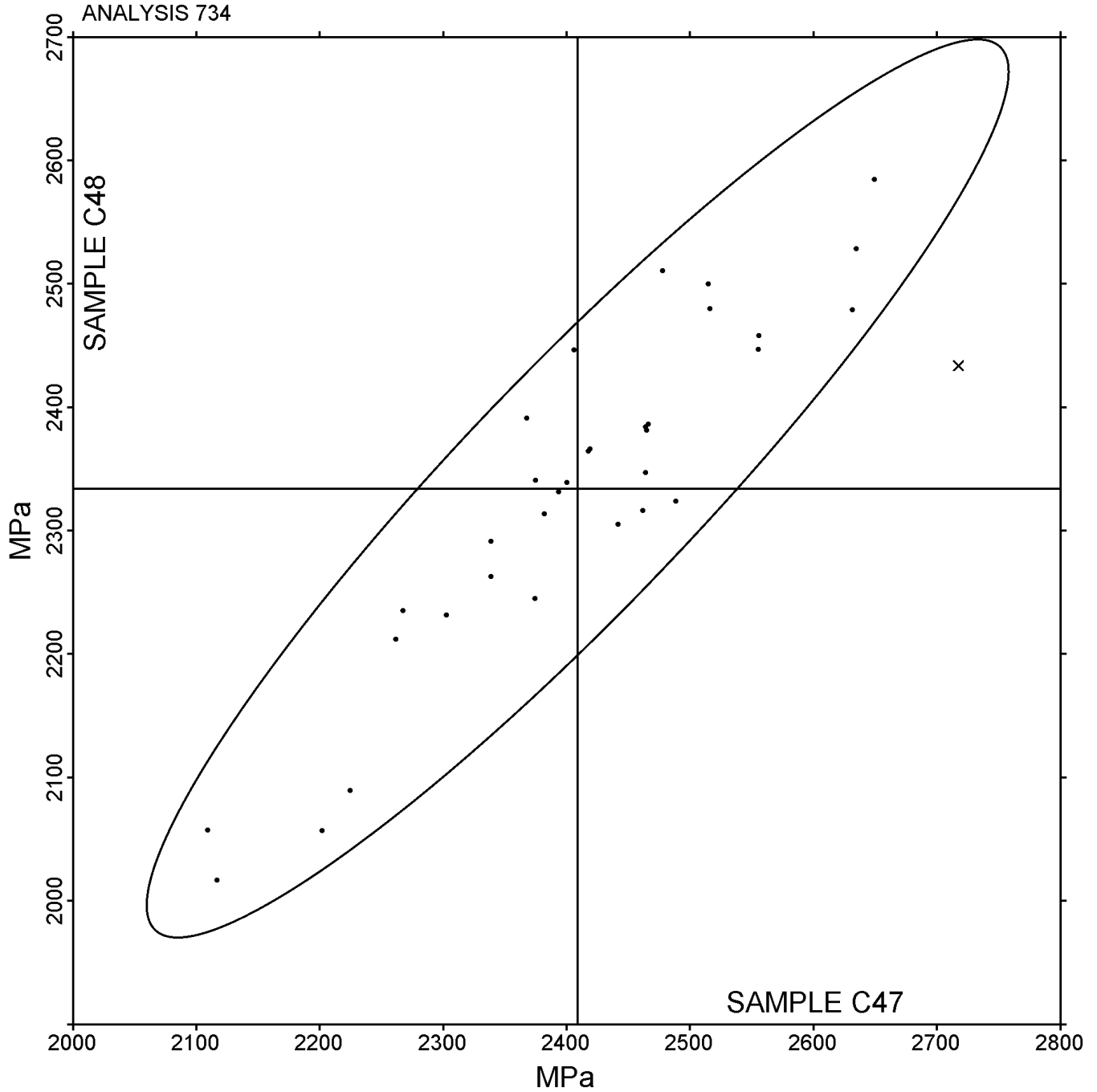
**Comments on assigned Data Flags for Test #734**

2UQ7SF (X) - Inconsistent in testing between samples and inconsistent in testing within Sample C48. Low data for Sample C47.

HJKZH6 (X) - Inconsistent in testing between samples.

Plastics Interlaboratory Testing Program  
Analysis 734  
Modulus of Elasticity - MPa

Grand Mean Sample C47: 2,408.35 MPa    Grand Mean Sample C48: 2,334.22 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			Sample J48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1GGCAB	M	No data reported for this sample			371.7	5.2	0.34
24CDDL		374.1	-1.6	-0.10	360.3	-6.2	-0.40
2AUYYP	X	352.0	-23.7	-1.52	360.2	-6.3	-0.41
2DGQSN		369.1	-6.6	-0.42	357.1	-9.4	-0.61
3J96R6	X	0.4	-375.3	-23.99	0.4	-366.1	-23.77
46LUDV	X	320.7	-55.0	-3.51	309.7	-56.8	-3.69
4UER1D		361.0	-14.7	-0.94	353.2	-13.3	-0.86
568JDV		386.6	10.9	0.70	375.8	9.3	0.60
5NN9D7		373.2	-2.5	-0.16	363.1	-3.4	-0.22
5SHQM9		362.9	-12.8	-0.82	352.8	-13.7	-0.89
7VWQU7		353.2	-22.5	-1.44	346.2	-20.3	-1.32
82EB8F		380.8	5.1	0.33	372.0	5.5	0.36
8V1ADS	X	414.8	39.2	2.50	370.8	4.3	0.28
956JNR		390.3	14.6	0.93	385.4	18.9	1.23
9DSNJ6	*	404.3	28.6	1.83	389.1	22.6	1.46
9LSGXB		390.4	14.7	0.94	380.8	14.3	0.93
AB7Q4K		382.1	6.4	0.41	373.1	6.6	0.43
AKLBGU		387.1	11.4	0.73	376.7	10.2	0.66
B8FCNR		361.2	-14.5	-0.93	352.7	-13.8	-0.90
BKFVK2		378.7	3.0	0.19	369.3	2.8	0.18
CJQHUM		363.5	-12.2	-0.78	350.7	-15.8	-1.02
CXKZMV		395.3	19.6	1.25	384.9	18.4	1.19
DERJUB		356.9	-18.8	-1.20	347.6	-18.9	-1.23
DKGM89	X	350.6	-25.1	-1.60	332.4	-34.1	-2.22
DNH81T		388.5	12.8	0.82	381.9	15.4	1.00
DTBVM6		381.1	5.4	0.34	375.1	8.6	0.56
ELUZKN	*	375.0	-0.7	-0.04	357.8	-8.7	-0.57
EQ77K9		407.9	32.3	2.06	394.5	28.0	1.82
ERQW9S		365.2	-10.4	-0.67	355.0	-11.5	-0.75
ES2MFA	X	408.7	33.0	2.11	389.9	23.4	1.52
FM2TLF		368.1	-7.6	-0.49	359.8	-6.7	-0.43
G7S75P		366.9	-8.7	-0.56	357.2	-9.3	-0.60

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

WebCode	Data Flag	Sample J47			Sample J48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
H4W1WJ	X	367.6	-8.0	-0.51	384.9	18.4	1.20
HD69VY		383.7	8.0	0.51	380.1	13.6	0.88
HGEKVL		362.8	-12.9	-0.83	354.1	-12.4	-0.81
JFEC4N	X	397.3	21.6	1.38	367.6	1.1	0.07
JVZ2SC	X	325.8	-49.9	-3.19	324.6	-41.9	-2.72
JXLYWF		391.5	15.9	1.01	381.5	15.0	0.97
K47LQR		356.7	-19.0	-1.21	350.7	-15.8	-1.03
K93SH9		370.3	-5.4	-0.34	362.7	-3.8	-0.24
KEDY2M		382.2	6.5	0.41	367.5	1.0	0.06
KQ7112		363.2	-12.5	-0.80	352.0	-14.5	-0.94
KTZ4FA		366.4	-9.3	-0.59	359.5	-7.0	-0.46
M5VBMS		369.3	-6.4	-0.41	360.6	-5.9	-0.38
MDK18S		378.3	2.7	0.17	362.2	-4.3	-0.28
MKLES7	X	382.0	6.4	0.41	385.9	19.4	1.26
MQS2KW		385.2	9.5	0.61	373.4	6.9	0.45
MQYNNR		362.2	-13.5	-0.86	355.7	-10.8	-0.70
NXYKAG		371.0	-4.7	-0.30	363.4	-3.1	-0.20
NZTZRW		353.0	-22.7	-1.45	345.7	-20.8	-1.35
P3EBQ3		397.9	22.2	1.42	387.8	21.3	1.38
PKMR6H		363.1	-12.5	-0.80	355.1	-11.4	-0.74
PQD27R		383.3	7.6	0.49	379.4	12.9	0.84
Q6E1BC		372.2	-3.5	-0.22	362.2	-4.3	-0.28
Q7ELSF		383.4	7.7	0.49	374.7	8.2	0.53
Q7SYUA	X	364.9	-10.8	-0.69	340.8	-25.7	-1.67
QZ1V96		384.4	8.7	0.55	374.0	7.5	0.49
RJTXYA		351.0	-24.7	-1.58	339.6	-26.9	-1.75
RXWYHK	X	394.7	19.0	1.22	193.8	-172.7	-11.21
RYZQDD		380.2	4.5	0.29	368.8	2.3	0.15
S4P4KE		413.9	38.2	2.44	404.1	37.6	2.44
SRJ16C	*	417.3	41.6	2.66	410.3	43.8	2.84
TCZR35		392.2	16.5	1.06	382.5	16.0	1.04
TDAMT4		349.1	-26.6	-1.70	344.2	-22.3	-1.45

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

WebCode	Data Flag	Sample J47			Sample J48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
TEQEGD	*	352.6	-23.1	-1.48	350.2	-16.3	-1.06
THX3KP		359.0	-16.7	-1.07	351.4	-15.1	-0.98
TTSA9T		357.6	-18.1	-1.15	348.5	-18.0	-1.17
TYB3YU		374.8	-0.9	-0.06	369.1	2.6	0.17
U9CYKV		359.1	-16.5	-1.06	348.6	-17.9	-1.16
UM1J73		369.8	-5.9	-0.38	360.6	-5.9	-0.38
UQNPSU		379.5	3.9	0.25	367.6	1.1	0.07
V9MVDJ		370.5	-5.2	-0.33	361.1	-5.4	-0.35
VT1E83	*	411.6	35.9	2.30	405.7	39.2	2.54
X16VY8		372.9	-2.8	-0.18	362.1	-4.4	-0.28
XE5DHZ		356.6	-19.1	-1.22	347.0	-19.5	-1.27
XF9MBD		372.3	-3.4	-0.22	366.4	-0.1	-0.01
YADD3W		388.8	13.1	0.84	378.5	12.0	0.78
YG38PF		383.0	7.3	0.46	373.9	7.4	0.48
ZH89TK		378.1	2.5	0.16	371.5	5.0	0.32
ZVCJ8U		377.6	1.9	0.12	370.0	3.5	0.23

**Summary Statistics**

**Grand Means**

375.69 ksi

366.51 ksi

**Std Dev Btwn Labs**

15.65 ksi

15.40 ksi

Statistics based on 67 of 80 reporting participants

Sample J47: ABS & Sample J48: ABS

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

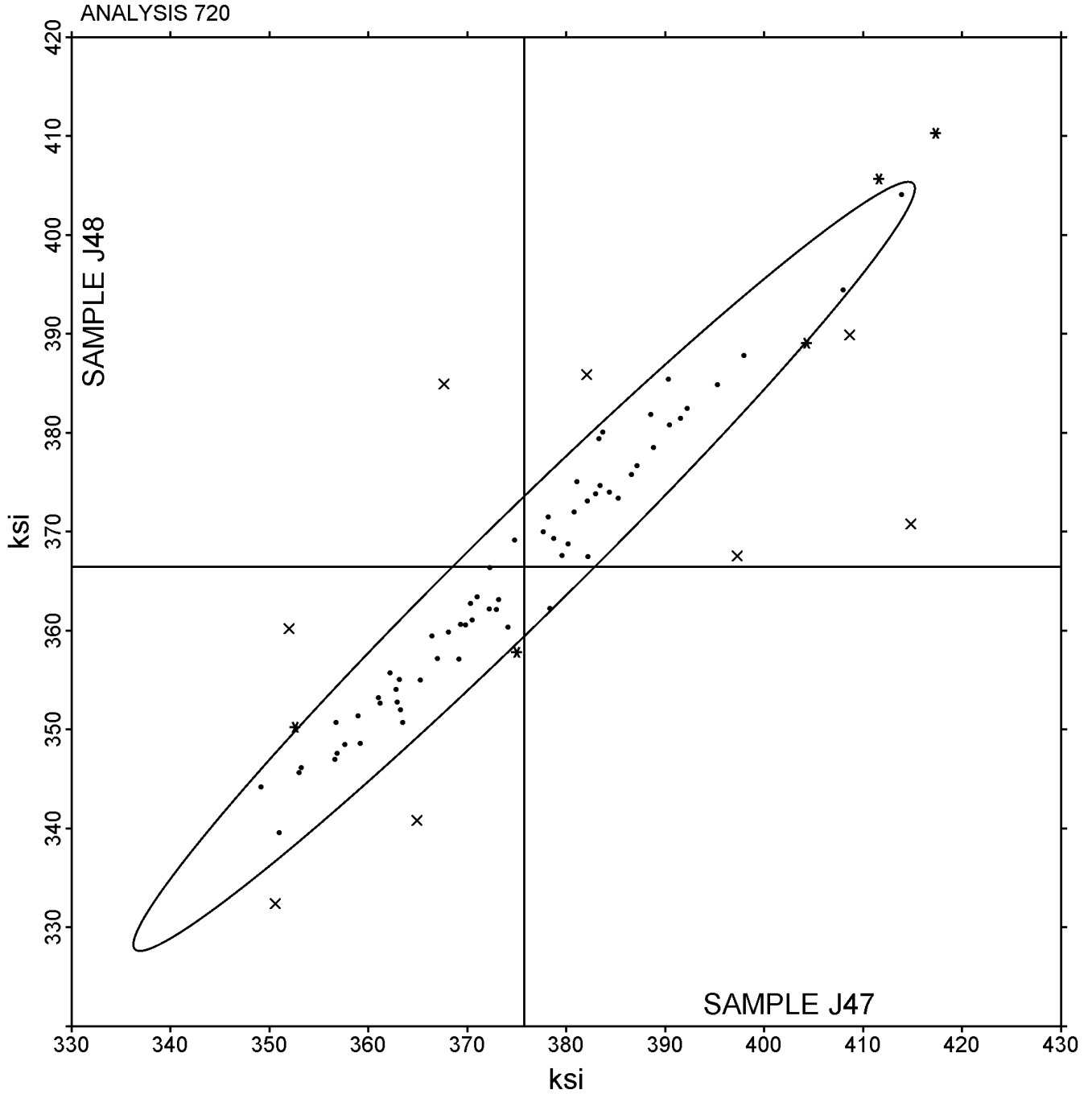
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**Comments on assigned Data Flags for Test #720**

- 1GGCAB (M) - Laboratory did not submit data for Sample J47.
- 2AUYYP (X) - Inconsistent in testing between samples.
- 3J96R6 (X) - Extreme data. Data possibly reported in ksi.
- 46LUDV (X) - Low data for all samples. Possible systematic error.
- 8V1ADS (X) - Inconsistent in testing between samples and inconsistent in testing within Sample J47.
- DKGM89 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample J48.
- ES2MFA (X) - Inconsistent in testing between samples.
- H4W1WJ (X) - Inconsistent in testing between samples and inconsistent in testing within both samples.
- JFEC4N (X) - Inconsistent in testing between samples.
- JVZ2SC (X) - Inconsistent in testing between samples, data for Sample J47 are low.
- MKLES7 (X) - Inconsistent in testing between samples.
- Q7SYUA (X) - Inconsistent in testing between samples.
- RXWYHK (X) - Inconsistent in testing between samples, data for Sample J48 are low.

Plastics Interlaboratory Testing Program  
Analysis 720  
Flexural Modulus- ksi

Grand Mean Sample J47: 375.69 ksi Grand Mean Sample J48: 366.51 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 J47			Sample J48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
11J9AZ		10,468	-52	-0.16	10,929	8	0.03
1UVW3K		10,484	-36	-0.11	11,050	129	0.42
2X9T73		10,370	-150	-0.46	10,842	-79	-0.26
33DESW		10,442	-78	-0.24	10,988	67	0.22
33ZV3T		10,492	-28	-0.09	10,910	-11	-0.04
3QRGF1		10,568	48	0.15	11,261	340	1.12
46DMDY	*	10,880	360	1.10	10,938	17	0.06
528Z1F		10,443	-78	-0.24	10,803	-119	-0.39
54CML9		10,408	-112	-0.35	10,881	-40	-0.13
5G6G67		10,541	20	0.06	10,881	-41	-0.13
5THB71		10,212	-308	-0.95	10,662	-259	-0.85
5XCLK1		10,650	130	0.40	10,980	59	0.19
7ZSDAC		10,135	-385	-1.18	10,470	-451	-1.49
8FHMZN		10,240	-281	-0.86	10,639	-283	-0.93
9CBQT2		10,601	80	0.25	10,995	73	0.24
9E6VGB	*	11,310	790	2.43	11,398	477	1.57
9SBPDX		10,499	-22	-0.07	10,808	-114	-0.37
AQJ8JE		10,330	-191	-0.59	10,691	-230	-0.76
CD7LPJ		10,289	-231	-0.71	10,754	-167	-0.55
CRSW6V		10,540	20	0.06	11,063	142	0.47
DBFAEC		10,818	298	0.91	11,334	413	1.36
FBEE7K		11,038	517	1.59	11,451	530	1.75
FXBP5L	X	11,651	1,131	3.47	12,098	1,177	3.88
G3VN3R		10,256	-264	-0.81	10,678	-244	-0.80
GQYPSN		10,609	88	0.27	10,954	33	0.11
LHXG5A		10,666	146	0.45	11,093	171	0.56
LJQN5M		10,642	122	0.37	11,072	150	0.50
MPJTPH		10,178	-342	-1.05	10,595	-326	-1.07
N14B98		10,692	172	0.53	11,142	221	0.73
NFNR1H		10,484	-36	-0.11	10,926	5	0.02
P4ZPPZ		10,714	193	0.59	11,213	291	0.96
Q2YDTU		9,886	-635	-1.95	10,341	-580	-1.91

**Plastics Interlaboratory Testing Program  
Analysis 721**

**Flexural Stress at 5% Strain - psi**

WebCode	Data Flag	Sample			Sample J48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
R3WH5N	M	No data reported for this sample			11,128	207	0.68
RMTDVD		10,302	-219	-0.67	10,746	-175	-0.58
T3DF9R		10,236	-284	-0.87	10,534	-387	-1.27
TWQJTP		10,372	-148	-0.45	10,922	1	0.00
U5SKN1		10,521	1	0.00	10,949	28	0.09
UJLEJF	*	11,326	805	2.47	11,365	443	1.46
V64ZUU		10,235	-285	-0.88	10,617	-304	-1.00
VY9NR4	M	No data reported for this sample			10,516	-405	-1.34
Y7JMSZ		9,873	-647	-1.99	10,293	-629	-2.07
Y8BCHU		10,936	416	1.28	11,296	375	1.23
Y99B54	X	420	-10,100	-31.02	448	-10,473	-34.50
YJEUFE		11,064	544	1.67	11,248	327	1.08
YP58A3		10,227	-293	-0.90	10,444	-477	-1.57
YP9BW7		10,359	-162	-0.50	10,818	-103	-0.34
ZMUN2T	*	11,043	523	1.61	11,641	720	2.37

**Summary Statistics**

**Grand Means**

10,520.5 psi

10,921.3 psi

**Std Dev Btwn Labs**

325.6 psi

303.6 psi

**Statistics based on 43 of 47 reporting participants**

**Sample J47: ABS & Sample J48: ABS**

**Comments on assigned Data Flags for Test #721**

FXBP5L (X) - High data for all samples. Possible systematic error.

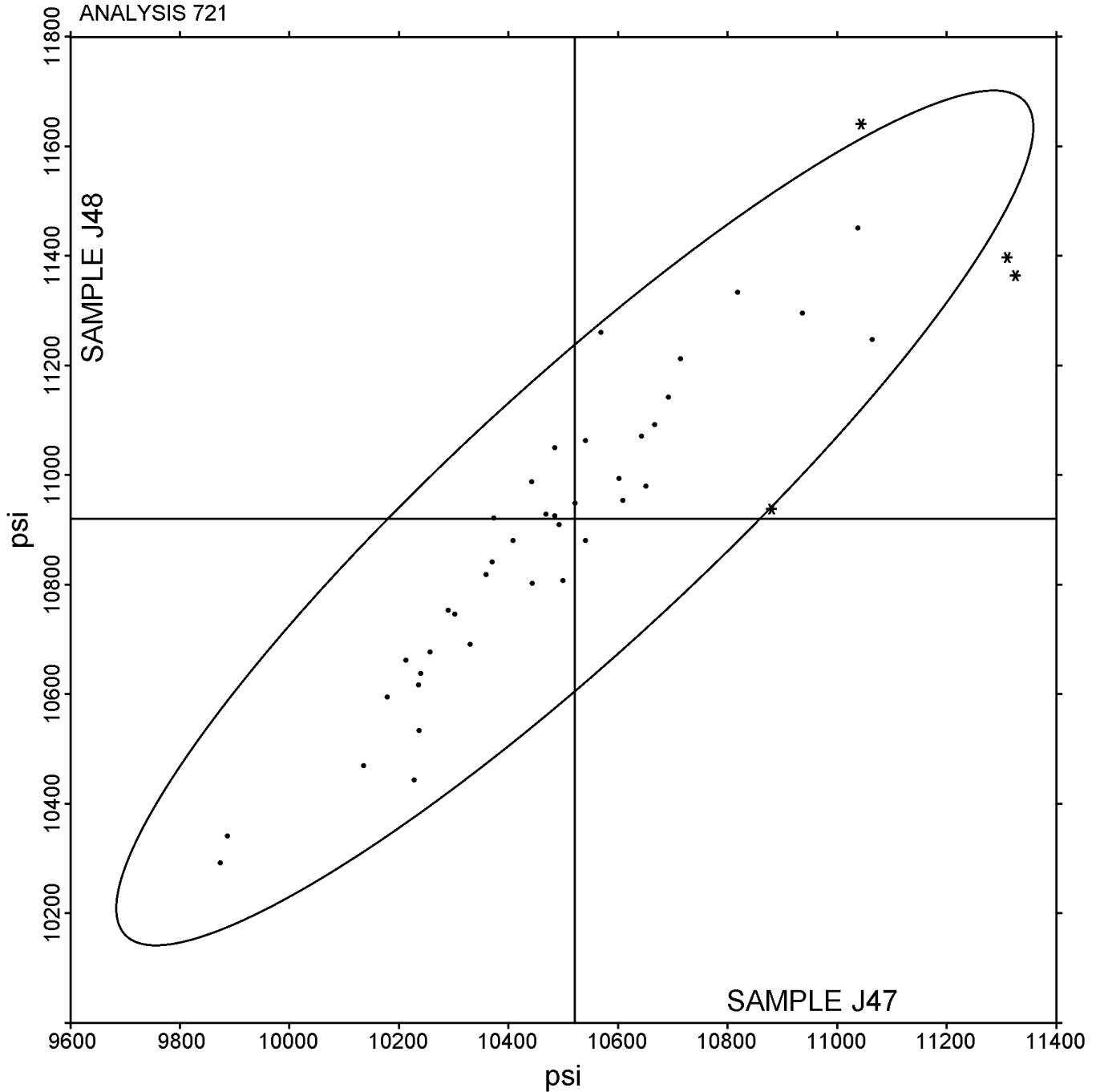
R3WH5N (M) - Laboratory did not submit data for Sample J47.

VY9NR4 (M) - Laboratory did not submit data for Sample J47.

Y99B54 (X) - Extreme data.

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

Grand Mean Sample J47: 10,520.48 psi    Grand Mean Sample J48: 10,921.28 psi



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

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

WebCode	Data Flag	Sample J47			Sample J48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1889A5		10,495	-7	-0.03	10,953	86	0.32
1NYTL9		10,665	163	0.68	11,027	159	0.60
1TD61M		10,565	62	0.26	10,861	-7	-0.03
29P8A8		10,662	160	0.67	10,987	120	0.45
2B8UV8		10,621	118	0.50	11,074	207	0.77
2X1WKH		10,150	-353	-1.48	10,498	-370	-1.39
3G4USW		10,506	3	0.01	10,914	47	0.18
3MWW3V		10,223	-279	-1.17	10,580	-288	-1.08
3XEWN6	X	11,411	909	3.82	11,392	524	1.96
46AVMH		10,606	104	0.44	11,126	258	0.97
4J22MN		10,358	-144	-0.61	10,661	-206	-0.77
4N3LSC		10,231	-272	-1.14	10,605	-263	-0.99
4WRGST	*	10,608	106	0.44	10,731	-136	-0.51
56TPZK		10,234	-268	-1.13	10,568	-300	-1.12
5M3FWY		10,518	16	0.07	11,053	186	0.70
5SN344		10,718	216	0.91	11,060	192	0.72
5X7244		10,417	-85	-0.36	10,738	-130	-0.49
616LYE		10,262	-241	-1.01	10,544	-324	-1.21
7586WK		10,438	-64	-0.27	10,747	-121	-0.45
7HSEAS	*	9,875	-628	-2.63	10,226	-641	-2.40
87DLRA		10,519	16	0.07	10,991	123	0.46
89QRHB		10,307	-195	-0.82	10,553	-315	-1.18
9LUBEY		10,896	394	1.65	11,270	402	1.51
9PE5BY		10,540	37	0.16	10,832	-36	-0.13
A8PZNT		10,358	-145	-0.61	10,767	-100	-0.38
AL8NLM		10,630	128	0.54	10,966	99	0.37
BZUMHM		10,731	228	0.96	11,092	224	0.84
CQ6Z2S		10,046	-456	-1.92	10,350	-518	-1.94
CUSC3D		10,808	305	1.28	11,161	293	1.10
D5MD8A		10,515	12	0.05	10,894	26	0.10
DLHRSA		10,763	260	1.09	11,215	347	1.30
DT28NB		10,221	-281	-1.18	10,474	-393	-1.47

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

WebCode	Data Flag	Sample J47			Sample J48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
E9FPRL		10,311	-192	-0.80	10,681	-187	-0.70
FBTYWA		10,377	-125	-0.52	10,726	-141	-0.53
JB949L		10,296	-206	-0.87	10,714	-154	-0.58
JL8WAH	*	11,110	608	2.55	11,482	614	2.30
K1663V	M	No data reported for this sample			11,165	297	1.11
KJ3WA3	X	11,440	938	3.94	11,460	592	2.22
LJFH65	*	10,328	-174	-0.73	10,450	-417	-1.56
LRUGJF		10,395	-108	-0.45	10,724	-144	-0.54
NMTRP4		10,632	129	0.54	11,023	156	0.58
PQ7Z3T		10,449	-54	-0.23	10,892	25	0.09
PTJ58K		10,677	174	0.73	11,084	216	0.81
PU41F7		10,646	144	0.60	11,013	145	0.55
QCMMXY	X	10,139	-364	-1.53	10,205	-662	-2.48
R43F6C	X	11,370	868	3.64	11,720	852	3.19
RB2ZLC		10,371	-131	-0.55	10,649	-219	-0.82
RTQ8MG		10,356	-147	-0.62	10,818	-50	-0.19
SKQ6PC		10,261	-242	-1.01	10,761	-107	-0.40
TUA7PZ		10,531	29	0.12	10,832	-35	-0.13
U4YCJA		10,601	99	0.41	11,084	216	0.81
VAN5QW		10,872	370	1.55	11,354	486	1.82
VMWAH5	X	11,481	979	4.11	11,951	1,084	4.06
WTSVMJ		10,372	-130	-0.55	10,776	-91	-0.34
XQTXPJ		10,767	264	1.11	11,117	250	0.94
Y82YW3		10,583	80	0.34	10,987	120	0.45
Y8BW67		10,979	476	2.00	11,320	453	1.70
YBM2DL		10,726	224	0.94	11,107	239	0.90

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

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<b>Summary Statistics</b>	
<b>Grand Means</b>	
10,502.4 psi	10,867.6 psi
<b>Std Dev Btwn Labs</b>	
238.2 psi	266.9 psi
<b>Statistics based on 52 of 58 reporting participants</b>	

**Sample J47:** ABS & **Sample J48:** ABS

**Comments on assigned Data Flags for Test #722**

3XEWN6 (X) - High data for Sample J47.

K1663V (M) - Laboratory did not submit data for Sample J47.

KJ3WA3 (X) - High data for Sample J47.

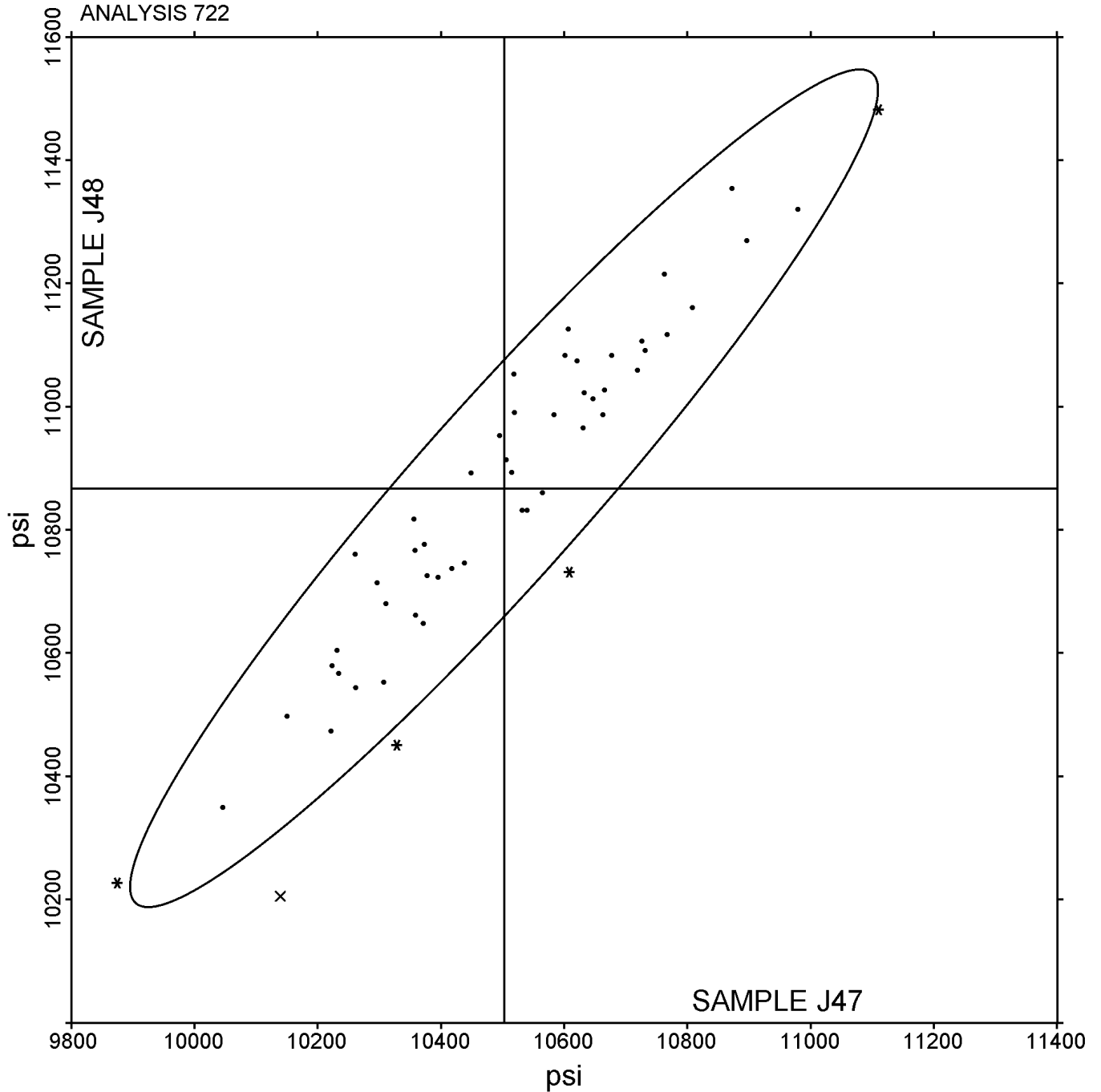
QCMMXY (X) - Inconsistent in testing between samples.

R43F6C (X) - High data for all samples.

VMWAH5 (X) - High data for all samples.

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

Grand Mean Sample J47: 10,502.35 psi    Grand Mean Sample J48: 10,867.55 psi



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

**Plastics Interlaboratory Testing Program**  
**Analysis 736**  
**Flexural Modulus - MPa**

WebCode	Data Flag	Sample K47			Sample K48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1AUH8V		2,253	-204	-1.90	2,147	-244	-2.21
2JX9WF		2,355	-102	-0.96	2,262	-128	-1.16
2XJCML		2,588	131	1.22	2,474	83	0.75
37735A		2,409	-48	-0.45	2,294	-97	-0.88
3ZVYZW		2,488	31	0.29	2,434	43	0.39
41KX3F		2,363	-94	-0.88	2,311	-80	-0.72
43VVFX		2,537	79	0.74	2,497	106	0.96
4UNGV2		2,530	72	0.68	2,521	130	1.18
5Y9Y7T		2,487	30	0.28	2,415	24	0.22
65VMN4		2,356	-101	-0.95	2,266	-124	-1.13
7PJL7		2,475	17	0.16	2,410	19	0.17
AQR1Q4		2,458	1	0.01	2,397	6	0.06
AY9V42		2,458	1	0.01	2,384	-7	-0.06
BT2KYU		2,370	-88	-0.82	2,309	-81	-0.74
CV6MCE		2,593	135	1.26	2,528	138	1.25
CWYM81		2,361	-96	-0.90	2,255	-136	-1.24
D1Q45D		2,238	-219	-2.05	2,185	-206	-1.87
DUM31D		2,424	-33	-0.31	2,406	15	0.14
EY7U2F	*	2,198	-260	-2.42	2,164	-227	-2.06
EZX244		2,662	204	1.91	2,593	203	1.84
FG2VJ4		2,422	-36	-0.33	2,357	-34	-0.31
GA564B		2,472	15	0.14	2,404	14	0.12
GEQXSL		2,541	84	0.78	2,471	81	0.73
GFVZ6Z		2,321	-136	-1.27	2,262	-129	-1.17
GYU3X3		2,436	-22	-0.20	2,381	-10	-0.09
HRUHBD		2,447	-11	-0.10	2,385	-6	-0.05
JN6XTA		2,401	-56	-0.52	2,318	-72	-0.66
JS28UZ		2,423	-34	-0.32	2,364	-27	-0.24
K2G62A		2,446	-11	-0.11	2,383	-8	-0.07
K3J4Q6		2,629	172	1.61	2,539	148	1.34
KEX6AW		2,641	184	1.72	2,600	210	1.90
KN6T2W		2,521	64	0.60	2,470	79	0.72

**Plastics Interlaboratory Testing Program  
Analysis 736  
Flexural Modulus - MPa**

WebCode	Data Flag	Sample K47			Sample K48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
KZUSKP		2,519	62	0.58	2,431	40	0.36
LAAF8Z		2,579	122	1.14	2,497	106	0.96
MWLU8X		2,504	46	0.43	2,438	47	0.43
NC14B7		2,494	37	0.34	2,396	5	0.05
NXGPRU	*	2,488	31	0.29	2,490	99	0.90
PE9ZN2		2,408	-49	-0.46	2,324	-66	-0.60
PRCSH6		2,526	69	0.64	2,450	60	0.54
QC2FK7		2,411	-47	-0.44	2,348	-43	-0.39
QM6QNN		2,441	-16	-0.15	2,310	-81	-0.73
R2GAP7		2,372	-86	-0.80	2,330	-61	-0.55
SGNVL3		2,251	-206	-1.93	2,181	-210	-1.91
TY4ACD		2,513	55	0.52	2,434	44	0.40
UPNA19		2,674	217	2.02	2,598	207	1.88
V5NK16		2,496	38	0.36	2,459	68	0.62
VZD1PD		2,579	121	1.13	2,513	122	1.11
XJ3B7B		2,463	6	0.06	2,415	24	0.22
XZ83YM	X	2,373	-84	-0.79	2,401	11	0.10
ZUJ6RG		2,390	-67	-0.63	2,349	-42	-0.38

Summary Statistics	
<b>Grand Means</b>	
2,457.4 MPa	2,390.8 MPa
<b>Std Dev Btwn Labs</b>	
107.1 MPa	110.2 MPa
<b>Statistics based on 49 of 50 reporting participants</b>	

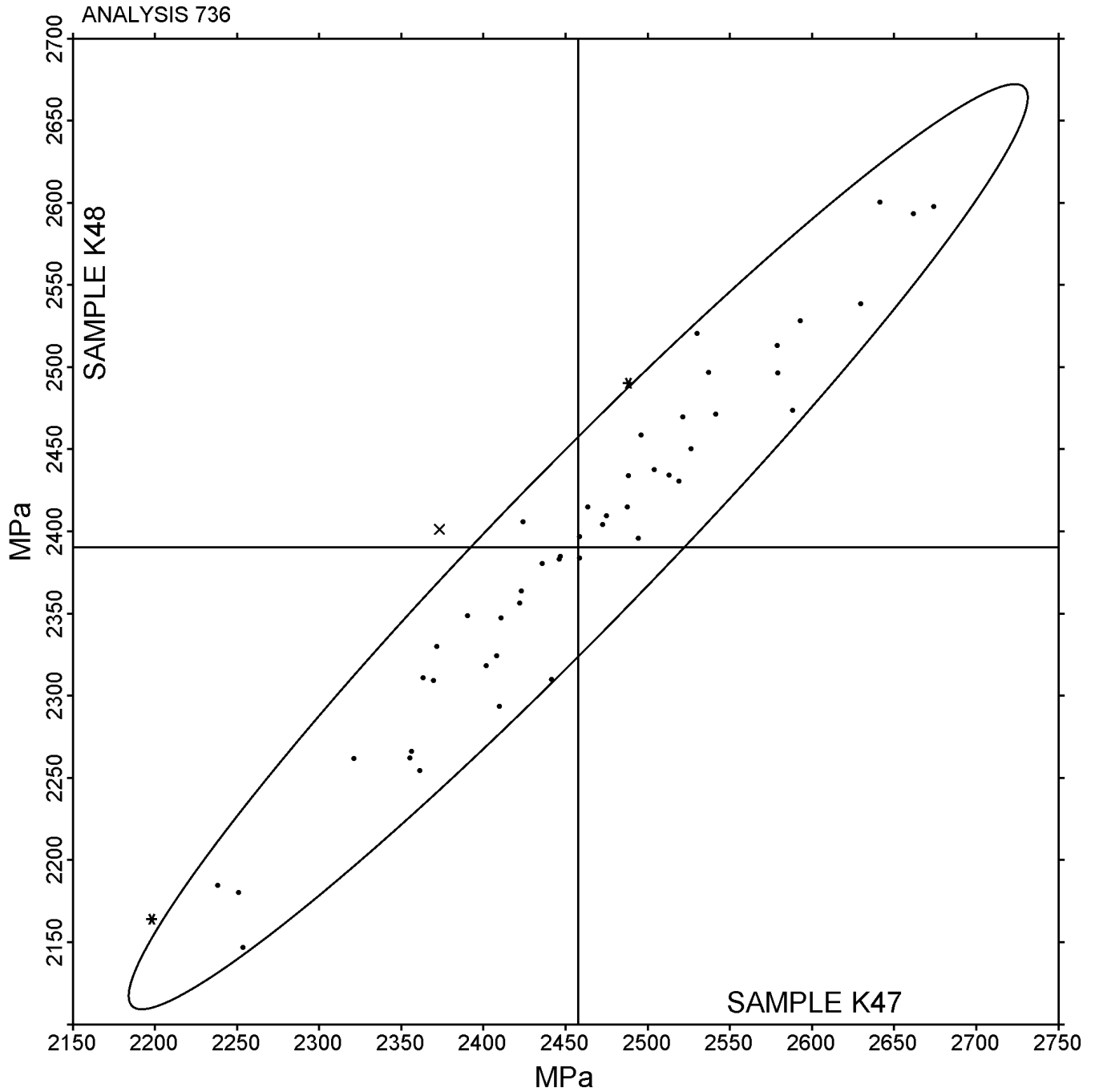
Sample K47: ABS & Sample K48: ABS

**Comments on assigned Data Flags for Test #736**

XZ83YM (X) - Inconsistent in testing between samples and inconsistent in testing within Sample K48.

Plastics Interlaboratory Testing Program  
Analysis 736  
Flexural Modulus - MPa

Grand Mean Sample K47: 2,457.39 MPa    Grand Mean Sample K48: 2,390.79 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 K47			Sample K48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1L61LH		70.00	-0.26	-0.16	71.24	0.05	0.03
1X7EUV		70.47	0.20	0.13	70.89	-0.29	-0.18
2GLZMH		73.36	3.10	1.89	73.37	2.18	1.32
2J7ABF		70.55	0.29	0.18	71.46	0.28	0.17
2YN64C		66.96	-3.30	-2.01	69.03	-2.16	-1.31
5C341A		72.16	1.89	1.16	72.63	1.44	0.87
6JTBF8		70.10	-0.16	-0.10	70.66	-0.52	-0.32
6RZ5AA		69.37	-0.89	-0.54	71.28	0.10	0.06
78P49E		69.19	-1.07	-0.65	69.19	-1.99	-1.21
7FTXFB		71.06	0.80	0.49	72.38	1.20	0.73
7UTMN5		68.82	-1.44	-0.88	69.46	-1.72	-1.04
8TYQ3M		73.13	2.87	1.75	73.69	2.50	1.52
B2XM86		70.88	0.62	0.38	71.23	0.05	0.03
B7X7RY		67.68	-2.58	-1.57	69.70	-1.48	-0.90
BA4BTJ		69.78	-0.48	-0.29	69.64	-1.54	-0.93
CBRWVN		70.03	-0.24	-0.14	70.92	-0.26	-0.16
DBV7EK		69.18	-1.08	-0.66	69.77	-1.42	-0.86
DC4MYQ		71.92	1.66	1.01	73.87	2.69	1.63
F3X66F		69.80	-0.46	-0.28	70.71	-0.48	-0.29
FCZESV		71.62	1.36	0.83	73.02	1.84	1.12
FG35FN		72.75	2.49	1.52	73.95	2.77	1.68
G68M2C		71.89	1.63	0.99	72.63	1.45	0.88
GFCJ29		73.15	2.89	1.76	73.98	2.80	1.69
H8UP9K		70.70	0.44	0.27	72.61	1.42	0.86
KZAPR8		69.94	-0.32	-0.20	70.80	-0.38	-0.23
MW553Q		70.60	0.34	0.21	71.33	0.15	0.09
N54VMK		71.37	1.11	0.68	72.90	1.72	1.04
NCXL38		66.28	-3.99	-2.43	67.39	-3.80	-2.30
NTHED7		70.17	-0.09	-0.05	70.56	-0.63	-0.38
PZAN2Y		68.41	-1.85	-1.13	69.68	-1.50	-0.91
QA5ZFH		70.81	0.55	0.34	72.42	1.24	0.75
T7FH1U		70.38	0.12	0.07	70.20	-0.98	-0.60

**Plastics Interlaboratory Testing Program  
Analysis 737**

**Flexural Stress at 3.5% Strain - MPa**

WebCode	Data Flag	Sample K47			Sample K48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
V7D7V2		69.06	-1.20	-0.73	69.71	-1.48	-0.89
V9HE51		70.73	0.47	0.28	71.64	0.46	0.28
VC82UN		71.09	0.82	0.50	72.09	0.91	0.55
W81MN4		69.81	-0.45	-0.27	70.68	-0.51	-0.31
Y1MR5N		67.81	-2.45	-1.50	68.00	-3.18	-1.93
ZLL7S7		68.89	-1.37	-0.83	70.24	-0.95	-0.57

**Summary Statistics**

**Grand Means**

70.261 MPa

71.183 MPa

**Std Dev Btwn Labs**

1.639 MPa

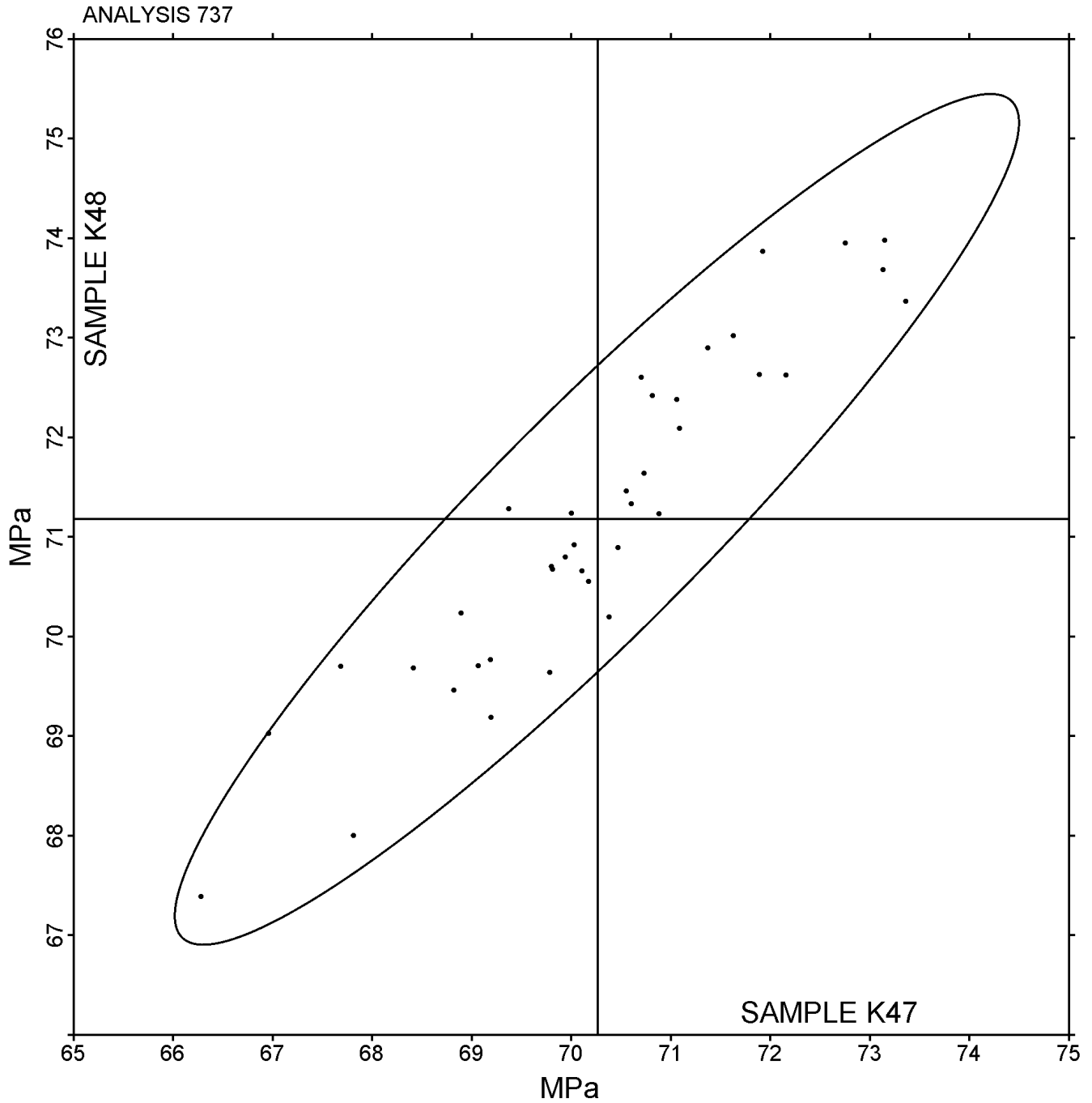
1.651 MPa

**Statistics based on 38 of 38 reporting participants**

**Sample K47: ABS & Sample K48: ABS**

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

Grand Mean Sample K47: 70.261 MPa Grand Mean Sample K48: 71.183 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 K47			Sample K48		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
1H5BBG		69.78	-1.23	-0.64	73.45	0.05	0.03
27G1Z3		72.16	1.15	0.60	75.10	1.70	0.88
48TRHJ		70.90	-0.11	-0.06	72.38	-1.02	-0.53
4JHN9P		73.45	2.44	1.27	75.36	1.97	1.02
5M3ZFZ		75.62	4.61	2.40	78.04	4.65	2.41
5SSZZF		70.35	-0.66	-0.34	72.56	-0.83	-0.43
649J7M		70.48	-0.54	-0.28	72.59	-0.80	-0.42
65ZNPA	*	67.22	-3.79	-1.98	70.88	-2.51	-1.30
78B45S		69.61	-1.41	-0.73	71.39	-2.00	-1.04
89KZJ9		71.33	0.32	0.17	73.45	0.05	0.03
DGWAB3	X	67.36	-3.65	-1.90	66.31	-7.09	-3.67
DHBC2X		69.50	-1.51	-0.79	72.12	-1.28	-0.66
EHP7ZJ		71.88	0.87	0.45	74.26	0.86	0.45
FRFLH1		70.64	-0.37	-0.19	72.51	-0.89	-0.46
JU3EZK		71.14	0.13	0.07	74.39	1.00	0.52
K9U2LX		70.47	-0.54	-0.28	73.09	-0.31	-0.16
KQ6Z8S		68.74	-2.27	-1.18	70.40	-3.00	-1.55
L17WXA		69.89	-1.12	-0.58	71.75	-1.64	-0.85
NBC6YD		70.44	-0.57	-0.30	72.73	-0.66	-0.34
Q7CN2X		73.77	2.76	1.44	75.02	1.62	0.84
RHGDXB		73.26	2.24	1.17	75.89	2.49	1.29
UAL5R4		69.48	-1.54	-0.80	71.59	-1.80	-0.93
UPGX9Q		71.07	0.06	0.03	73.41	0.01	0.01
WP2572		74.17	3.16	1.65	77.39	3.99	2.07
XCZ83C		71.81	0.80	0.42	74.72	1.33	0.69
Y3BQCH		71.57	0.55	0.29	73.55	0.15	0.08
YHNVNZ		67.51	-3.51	-1.83	70.30	-3.09	-1.60
ZFTWQX		71.06	0.05	0.03	73.36	-0.04	-0.02

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

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<b>Summary Statistics</b>	
<b>Grand Means</b>	
71.011 MPa	73.396 MPa
<b>Stnd Dev Btwn Labs</b>	
1.918 MPa	1.930 MPa
<b>Statistics based on 27 of 28 reporting participants</b>	

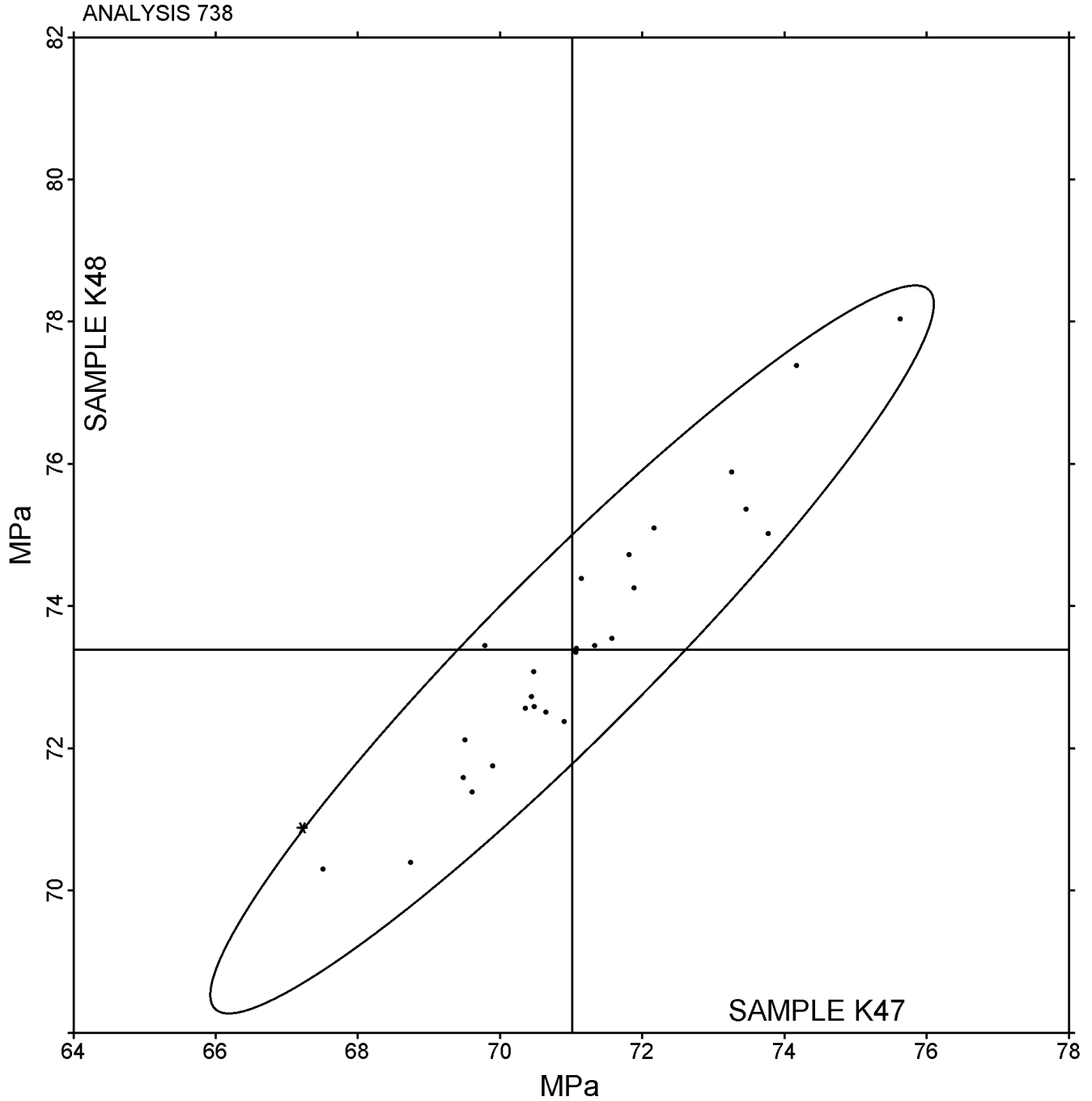
**Sample K47:** ABS & **Sample K48:** ABS

**Comments on assigned Data Flags for Test #738**

DGWAB3 (X) - Inconsistent in testing between samples. Low data for Sample K48.

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

Grand Mean Sample K47: 71.011 MPa Grand Mean Sample K48: 73.396 MPa



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

**Plastics Interlaboratory Testing Program  
Analysis 790**

**Notched Izod Impact - ft.lbf/in**

WebCode	Data Flag	Sample S47			Sample S48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1NZ4LZ		7.51	-0.14	-0.29	5.94	-0.04	-0.10	TO
1RYCUF	X	46.05	38.40	80.62	37.49	31.50	78.12	TM
1S4SG7		7.20	-0.45	-0.93	5.88	-0.10	-0.25	TM
28ZQVW	X	7.47	-0.18	-0.38	7.34	1.36	3.38	TO
2CEW2N		7.57	-0.08	-0.17	5.77	-0.21	-0.53	CE
2GC5TA		7.77	0.12	0.24	5.74	-0.24	-0.60	TO
2HAZFC		7.43	-0.22	-0.45	5.74	-0.24	-0.60	TO
2MVKXH		7.86	0.21	0.43	5.88	-0.11	-0.26	TM
2NUA1W		7.56	-0.09	-0.19	6.14	0.16	0.39	CE
3DHH3L		7.98	0.33	0.69	5.91	-0.07	-0.18	TO
3G78Q4		7.68	0.03	0.06	5.96	-0.02	-0.06	TO
3STB7Q		8.50	0.85	1.78	6.61	0.62	1.55	TM
3ZCVQC		7.22	-0.43	-0.90	5.64	-0.34	-0.84	WZ
52SPHA		7.80	0.15	0.31	6.04	0.06	0.15	TO
5BZMJD		7.24	-0.41	-0.85	5.96	-0.02	-0.05	TO
5CBN4T		7.18	-0.47	-0.99	5.26	-0.72	-1.78	IN
5ME8H2		8.37	0.72	1.52	6.46	0.47	1.18	CS
686UEH		7.20	-0.45	-0.94	5.58	-0.40	-1.00	CE
6TG5TQ		7.88	0.23	0.49	6.51	0.52	1.30	TM
6WVED2		8.10	0.45	0.95	6.10	0.12	0.29	CE
6XFM34		6.77	-0.88	-1.85	5.37	-0.61	-1.51	CE
6ZS3Y3	*	7.98	0.33	0.69	6.86	0.88	2.19	TO
7A7JZ8	*	8.80	1.15	2.41	6.37	0.39	0.96	TM
7VBL2D		7.76	0.11	0.24	6.36	0.37	0.93	TM
7ZBLSA		7.44	-0.21	-0.45	5.56	-0.42	-1.04	XX
81AH2B		7.65	0.00	0.00	6.18	0.20	0.49	TO
82W3X1		7.27	-0.38	-0.80	5.78	-0.20	-0.51	TO
8PFCMK		7.36	-0.29	-0.60	5.65	-0.34	-0.83	TM
8RPWV1		8.01	0.36	0.76	6.06	0.08	0.19	TM
94PGSD		8.00	0.35	0.75	6.12	0.14	0.34	TO
986BU8		8.30	0.65	1.36	6.36	0.38	0.94	CE
9ACMMK		7.13	-0.52	-1.09	5.92	-0.07	-0.17	RR

**Plastics Interlaboratory Testing Program  
Analysis 790**

**Notched Izod Impact - ft.lbf/in**

WebCode	Data Flag	Sample S47			Sample S48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
A5UUUA		8.17	0.52	1.09	6.34	0.36	0.90	CE
B2YUEE		7.69	0.04	0.09	6.31	0.33	0.81	TO
BN1EES		6.89	-0.76	-1.59	5.22	-0.76	-1.89	TM
BPX8D5		7.32	-0.33	-0.68	5.77	-0.21	-0.52	TO
BSE1CP		7.31	-0.34	-0.70	5.82	-0.16	-0.40	TM
CELRFG		7.61	-0.04	-0.09	6.05	0.06	0.16	TM
CKZX59		8.14	0.49	1.02	6.02	0.03	0.08	TM
CTJ49L		7.57	-0.08	-0.16	5.65	-0.33	-0.81	TM
D23TCZ		7.54	-0.11	-0.23	6.18	0.20	0.49	TM
D6K1SM		7.13	-0.52	-1.09	5.64	-0.34	-0.84	TM
DCHX9X		7.66	0.01	0.02	5.75	-0.23	-0.57	CE
ELU2AU		7.44	-0.21	-0.43	5.56	-0.42	-1.04	BA
EW2PK6		7.44	-0.21	-0.45	5.38	-0.60	-1.49	TO
FBYP87		6.99	-0.66	-1.39	5.47	-0.51	-1.26	CS
FKJWQJ		7.70	0.05	0.11	5.76	-0.23	-0.56	TM
FRCURK		7.77	0.12	0.25	6.27	0.29	0.71	BA
FTBFN5		7.80	0.15	0.32	6.15	0.16	0.41	TM
FUFUPX		7.29	-0.36	-0.75	5.93	-0.05	-0.12	TM
G365NE		8.64	0.99	2.07	6.78	0.80	1.98	SA
G71ZBD		7.78	0.13	0.27	6.08	0.10	0.25	TM
HHD6LC		8.34	0.69	1.45	6.72	0.74	1.83	TM
HR7TSA		7.90	0.25	0.54	6.32	0.34	0.85	TM
HVUSNC		7.42	-0.23	-0.49	5.76	-0.22	-0.55	TM
HXE8K7		6.90	-0.75	-1.58	5.31	-0.67	-1.66	BA
J898W2		7.08	-0.57	-1.19	5.53	-0.45	-1.13	TO
JTCX4V		8.24	0.59	1.24	6.26	0.28	0.69	TM
KSJ1GP		7.62	-0.03	-0.06	5.68	-0.30	-0.76	TM
KTUAHH		7.61	-0.04	-0.09	6.22	0.23	0.58	TM
KWQNY9		6.97	-0.68	-1.43	5.24	-0.75	-1.85	TM
LXNR6T		7.68	0.03	0.07	6.24	0.26	0.63	BA
M3DC47	*	7.47	-0.18	-0.38	6.56	0.57	1.42	XX
MA8PRP		8.04	0.39	0.82	6.36	0.38	0.94	TO

**Plastics Interlaboratory Testing Program  
Analysis 790**

**Notched Izod Impact - ft.lbf/in**

WebCode	Data Flag	Sample S47			Sample S48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
MY9B9H		7.51	-0.14	-0.30	5.61	-0.37	-0.93	CE
N12WC1		7.94	0.29	0.61	5.96	-0.03	-0.07	TO
N1EA9H		7.77	0.12	0.26	6.23	0.25	0.61	TO
NHZU2X		8.54	0.89	1.88	6.78	0.79	1.97	AT
NJC22R		7.46	-0.19	-0.39	5.83	-0.15	-0.38	TM
NP7Q6A		7.29	-0.36	-0.75	5.81	-0.17	-0.43	TO
NWL4ZM		7.86	0.21	0.44	6.09	0.11	0.27	TO
NXUVSF		7.47	-0.18	-0.37	6.06	0.08	0.19	TO
PC4FUZ	*	8.08	0.43	0.91	6.94	0.96	2.37	TM
PT3MNM		7.19	-0.46	-0.97	5.93	-0.06	-0.14	TO
PTV8ND		7.84	0.19	0.39	6.33	0.35	0.87	TO
PUKA4G		7.88	0.23	0.49	5.90	-0.08	-0.20	TO
PUL5Q8		7.71	0.06	0.13	6.09	0.11	0.27	TM
PY3V5X		6.58	-1.07	-2.24	5.34	-0.65	-1.60	TO
QGMW1B		6.65	-1.00	-2.09	5.44	-0.54	-1.34	WY
QU5AUS		8.04	0.39	0.82	6.32	0.34	0.84	TO
RF22UM	X	19.79	12.14	25.48	15.59	9.61	23.84	TM
RPBV2J		8.17	0.52	1.10	5.85	-0.13	-0.33	TO
RV6QGV		7.03	-0.62	-1.30	5.60	-0.38	-0.95	TO
RVCEZ8		8.18	0.53	1.12	6.61	0.63	1.57	TM
RWKQCW		7.62	-0.03	-0.07	5.74	-0.24	-0.59	TO
RYKXB4		6.92	-0.73	-1.52	5.35	-0.63	-1.57	TO
S8X2NX		8.11	0.46	0.96	6.26	0.28	0.69	TM
SX8F53		7.18	-0.47	-0.98	5.67	-0.31	-0.78	MI
T3T1G7	X	10.62	2.97	6.24	8.22	2.24	5.55	TO
TC6RPT		7.54	-0.11	-0.22	6.07	0.09	0.22	TM
TKVVS2	*	8.84	1.19	2.51	6.38	0.39	0.98	TM
UJ6GNP		7.29	-0.36	-0.76	5.92	-0.06	-0.15	TM
UZTFAW		7.73	0.08	0.17	6.14	0.16	0.39	TO
VT6FNB		7.55	-0.10	-0.20	6.06	0.07	0.18	TO
W28918		6.61	-1.04	-2.19	5.27	-0.71	-1.76	TO

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

WebCode	Data Flag	Sample S47			Sample S48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
WNWG5J		7.88	0.23	0.49	5.77	-0.21	-0.53	BA
XB1U96	X	9.31	1.66	3.48	6.30	0.32	0.80	TM
XSMYD7		7.92	0.27	0.57	5.77	-0.22	-0.54	XX
XWFD6F		7.91	0.26	0.54	5.70	-0.28	-0.70	TO
Y18U27	*	8.71	1.06	2.22	7.14	1.16	2.87	TM
Y1EDBA		7.59	-0.06	-0.13	5.80	-0.19	-0.46	TO
ZFXD3M		7.33	-0.32	-0.68	6.17	0.18	0.45	TO
ZH21C5		8.04	0.39	0.82	6.33	0.35	0.87	CE

**Summary Statistics**

**Grand Means**

7.649 ft.lbf/in

5.983 ft.lbf/in

**Std Dev Btwn Labs**

0.476 ft.lbf/in

0.403 ft.lbf/in

Statistics based on 98 of 103 reporting participants

**Sample S47: ABS & Sample S48: ABS**

**Comments on assigned Data Flags for Test #790**

1RYCUF (X) - Extreme data.

28ZQVW (X) - Inconsistent in testing between samples, data for Sample S48 are high.

RF22UM (X) - Extreme data.

T3T1G7 (X) - High data for all samples. Inconsistent in testing within Sample S48.

XB1U96 (X) - Inconsistent in testing between samples, data for Sample S47 are high.

**Instrument Code List as Reported by the Labs**

(AT) - Atlas

(BA) - Baldwin

(CE) - Ceast

(CS) - CSI

(IN) - Instron

(MI) - Mitsubishi

(RR) - Ray-Ran Polymer Testing Equipment

(SA) - Satec

(TM) - TMI

(TO) - Tinius Olsen

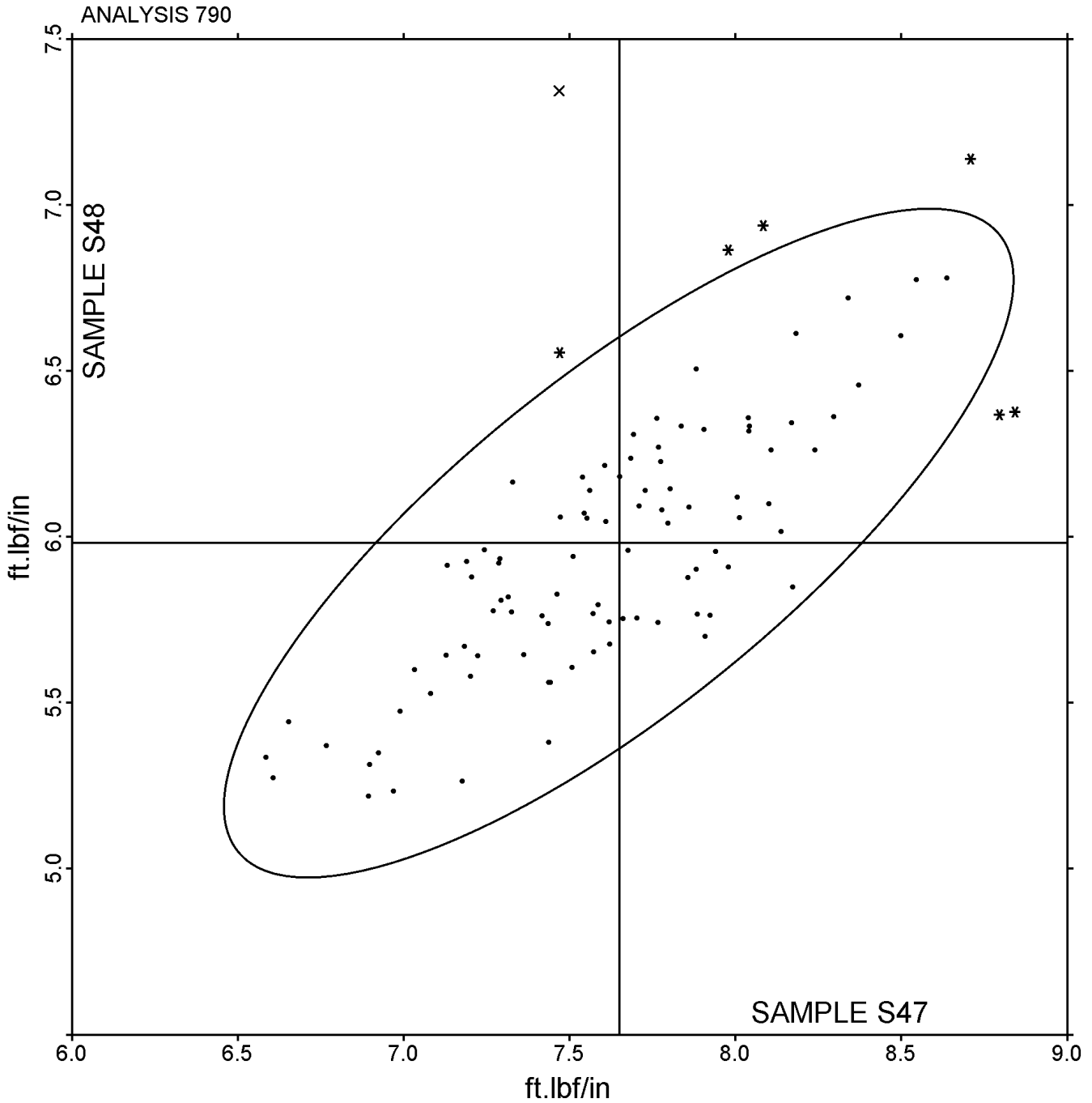
(WY) - Yasuda Seiki

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample S47: 7.6491 ft.lbf/in Grand Mean Sample S48: 5.9826 ft.lbf/in



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

**Plastics Interlaboratory Testing Program  
Analysis 792**

**Notched Charpy Impact - kJ/m<sup>2</sup>**

WebCode	Data Flag	Sample M47			Sample M48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1GHM8F		31.32	-1.06	-0.87	29.13	-1.62	-1.20	TM
336M9P		31.82	-0.56	-0.46	29.35	-1.39	-1.03	XX
3EJM4U		33.17	0.79	0.65	31.18	0.43	0.32	TM
3Y3DMU		32.78	0.40	0.33	29.52	-1.22	-0.91	TO
51HKXX		33.06	0.68	0.56	31.60	0.86	0.63	CE
5F562X		30.08	-2.30	-1.89	29.22	-1.52	-1.13	TO
6JQTBK		34.35	1.97	1.62	33.58	2.84	2.10	TM
6PRQKA		35.08	2.70	2.22	32.91	2.16	1.60	CE
72XTRR		33.22	0.84	0.69	33.37	2.63	1.95	TO
7A5LU8		32.54	0.16	0.13	30.99	0.24	0.18	CE
9DTMPY		31.24	-1.14	-0.94	30.32	-0.43	-0.32	TM
BE1XKN	X	24.57	-7.81	-6.41	23.65	-7.09	-5.25	TM
BEUJM6		31.00	-1.38	-1.13	28.26	-2.48	-1.84	TM
BH6DAA		31.12	-1.26	-1.04	29.96	-0.79	-0.58	IN
BVST1H		32.52	0.14	0.12	30.74	0.00	0.00	CE
ETZ3Z9		32.47	0.09	0.07	31.24	0.50	0.37	TO
FYSSW4		31.65	-0.73	-0.60	30.60	-0.14	-0.11	CE
HMSRSD		32.24	-0.14	-0.11	30.79	0.04	0.03	CE
J8WN6S		34.74	2.36	1.94	32.46	1.72	1.27	CE
KDCKCL		31.53	-0.85	-0.69	30.17	-0.57	-0.42	TO
LDS861		33.85	1.47	1.21	31.74	1.00	0.74	TO
LMDXBW		33.59	1.21	0.99	31.27	0.53	0.39	CE
M75S3G	X	25.48	-6.90	-5.66	24.33	-6.41	-4.75	TM
MHG8QY		32.14	-0.24	-0.20	30.26	-0.48	-0.36	CE
MKHWNJ		31.23	-1.15	-0.94	29.28	-1.47	-1.09	KC
N58RPC		32.49	0.11	0.09	29.54	-1.20	-0.89	PO
NVPRCU		31.72	-0.66	-0.54	30.11	-0.63	-0.47	KF
NW9U4N		33.22	0.84	0.69	33.37	2.63	1.95	TO
PP1EQC		32.28	-0.10	-0.08	29.74	-1.00	-0.74	TO
R1DNZV		32.14	-0.24	-0.20	31.45	0.70	0.52	XX
R75T7Q		31.32	-1.06	-0.87	30.36	-0.38	-0.28	TO
RJZQ6Q	X	37.98	5.60	4.60	30.50	-0.24	-0.18	XX

**Plastics Interlaboratory Testing Program  
Analysis 792**

**Notched Charpy Impact - kJ/m<sup>2</sup>**

WebCode	Data Flag	Sample M47			Sample M48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
RUMGXP		33.11	0.73	0.60	31.29	0.54	0.40	TM
SYVB2H		30.38	-2.00	-1.64	29.37	-1.37	-1.02	TO
TJ5BF3		31.64	-0.74	-0.60	30.08	-0.66	-0.49	TM
TN53PP		31.25	-1.13	-0.92	29.94	-0.81	-0.60	TO
TRXEZM	X	34.64	2.26	1.85	28.96	-1.78	-1.32	WZ
V8TFZV		35.04	2.66	2.18	33.18	2.44	1.80	TM
WEQQN2		32.64	0.26	0.21	30.32	-0.42	-0.31	SA
ZDNKUF		32.66	0.28	0.23	31.54	0.79	0.59	BA
ZSZK97		31.38	-1.00	-0.82	29.31	-1.43	-1.06	TM

**Summary Statistics**

**Grand Means**

32.379 kJ/m<sup>2</sup>

30.744 kJ/m<sup>2</sup>

**Std Dev Btwn Labs**

1.219 kJ/m<sup>2</sup>

1.350 kJ/m<sup>2</sup>

Statistics based on 37 of 41 reporting participants

**Sample M47: ABS & Sample M48: ABS**

**Comments on assigned Data Flags for Test #792**

BE1XKN (X) - Low data for all samples.

M75S3G (X) - Low data for all samples. Possible systematic error.

RJZQ6Q (X) - Inconsistent in testing between samples, data for Sample M47 are high.

TRXEZM (X) - Inconsistent in testing between samples.

**Instrument Code List as Reported by the Labs**

(BA) - Baldwin

(CE) - Ceast

(IN) - Instron

(KC) - Kladivo Charpy

(KF) - Karl Frank GmbH

(PO) - POE

(SA) - Satec

(TM) - TMI

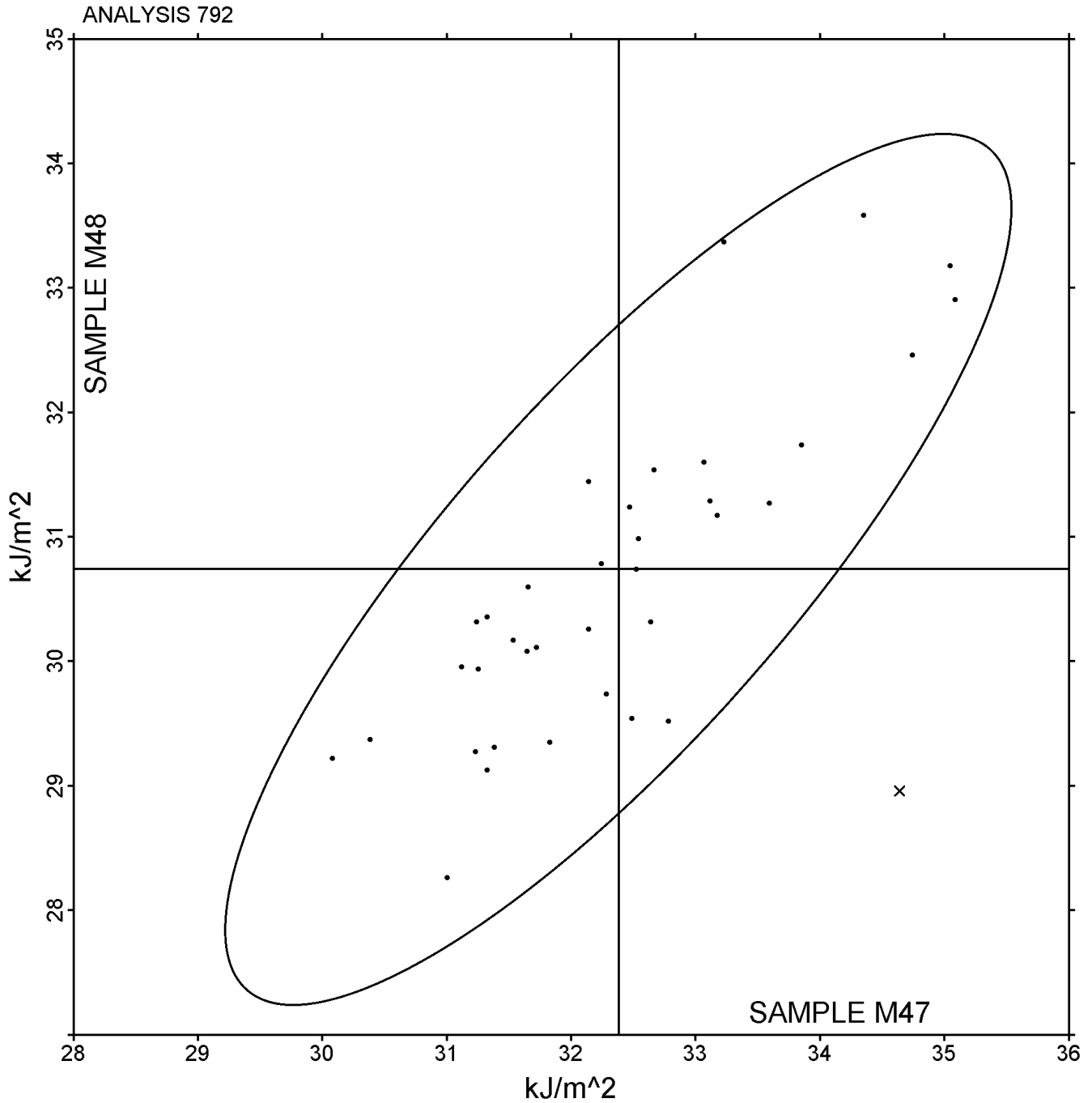
(TO) - Tinius Olsen

(WZ) - Zwick

(XX) - Instrument manufacturer not specified by lab

Plastics Interlaboratory Testing Program  
Analysis 792  
Notched Charpy Impact -  $\text{kJ/m}^2$

Grand Mean Sample M47:  $32.379 \text{ kJ/m}^2$  Grand Mean Sample M48:  $30.744 \text{ kJ/m}^2$



**Plastics Interlaboratory Testing Program  
Analysis 710**

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

WebCode	Data Flag	Sample E47			Sample E48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
11ZNFN		123.40	-2.19	-1.10	126.15	-0.79	-0.45	CE
2BBDKX		124.75	-0.84	-0.42	126.93	-0.02	-0.01	CS
37NRCB		127.58	1.98	1.00	128.63	1.68	0.96	DN
3JK79K		122.48	-3.12	-1.57	125.05	-1.89	-1.08	CE
3M4MZ2		123.15	-2.44	-1.23	123.38	-3.57	-2.04	CE
3PJDDU		127.15	1.56	0.78	128.00	1.06	0.61	XA
47H9P6		126.10	0.51	0.26	127.15	0.21	0.12	TO
4Z1B1Z		123.53	-2.07	-1.04	125.10	-1.84	-1.05	TO
5HH5JS		127.03	1.43	0.72	128.18	1.23	0.71	EM
64D2PE		128.38	2.78	1.40	129.08	2.13	1.22	AT
6BXEPP		122.93	-2.67	-1.34	123.83	-3.12	-1.78	RO
6E6KHQ		126.25	0.66	0.33	127.83	0.88	0.51	DN
77F1HR		124.78	-0.82	-0.41	127.03	0.08	0.05	CE
7SVPNG		125.73	0.13	0.07	128.33	1.38	0.79	AT
8HG5M4		126.35	0.76	0.38	129.20	2.26	1.29	AT
97L467		123.58	-2.02	-1.01	124.88	-2.07	-1.18	CE
9QXK2S		124.33	-1.27	-0.64	125.53	-1.42	-0.81	TO
AHNTTT		124.08	-1.52	-0.76	125.78	-1.17	-0.67	CE
AUF8NX		128.10	2.51	1.26	128.15	1.21	0.69	TO
CR6J5A		124.75	-0.84	-0.42	125.50	-1.44	-0.82	TO
CYGTGZ		124.55	-1.04	-0.52	127.13	0.18	0.11	RR
EAL5VH		124.75	-0.84	-0.42	126.18	-0.77	-0.44	CE
EDCV3N	X	141.45	15.86	7.98	141.48	14.53	8.32	AT
GGZPZH		123.50	-2.09	-1.05	124.50	-2.44	-1.40	XA
HN26XT		126.98	1.38	0.70	128.25	1.31	0.75	AT
HQGH2H		125.28	-0.32	-0.16	126.60	-0.34	-0.20	CE
HQU4MC		126.20	0.61	0.31	126.98	0.03	0.02	TO
HUYNXS		126.55	0.96	0.48	128.05	1.11	0.63	AT
JY5R55		128.25	2.66	1.34	128.83	1.88	1.08	AT
KYT6D9		129.35	3.76	1.89	130.08	3.13	1.79	XX
L8BKVW		125.15	-0.44	-0.22	126.28	-0.67	-0.38	TO
LQ769A	X	137.73	12.13	6.11	138.13	11.18	6.40	AT

**Plastics Interlaboratory Testing Program  
Analysis 710**

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

WebCode	Data Flag	Sample E47			Sample E48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
LSVMMA		122.88	-2.72	-1.37	125.55	-1.39	-0.80	CE
PQHUC7		124.93	-0.67	-0.34	126.20	-0.74	-0.42	TO
QSWN5S		125.88	0.28	0.14	126.65	-0.29	-0.17	TO
QTKJLE		123.68	-1.92	-0.96	126.00	-0.94	-0.54	TO
R3PHW7	*	130.95	5.36	2.70	131.78	4.83	2.77	TO
RD234B		125.18	-0.42	-0.21	126.35	-0.59	-0.34	EM
SDAXNF		129.23	3.63	1.83	129.25	2.31	1.32	CS
T7HZD4		123.95	-1.64	-0.83	125.05	-1.89	-1.08	XX
V1JVLS	*	127.63	2.03	1.02	126.68	-0.27	-0.15	TO
VFL9YA		124.93	-0.67	-0.34	124.85	-2.09	-1.20	TO
VVPUL3		126.50	0.91	0.46	127.70	0.76	0.43	CE
XGLFVS		122.80	-2.79	-1.40	125.63	-1.32	-0.75	CE
XUF8NW		127.48	1.88	0.95	129.03	2.08	1.19	XX
Y2WWH9		125.13	-0.47	-0.23	128.20	1.26	0.72	AT
YECZCD	X	131.03	5.43	2.73	128.70	1.76	1.01	TO

Summary Statistics	
<b>Grand Means</b>	
125.591 Degrees C	126.941 Degrees C
<b>Stnd Dev Btwn Labs</b>	
1.987 Degrees C	1.747 Degrees C
<b>Statistics based on 44 of 47 reporting participants</b>	

Sample E47: PC & Sample E48: PC

**Comments on assigned Data Flags for Test #710**

- EDCV3N (X) - High data for all samples.
- LQ769A (X) - High data for all samples.
- YECZCD (X) - High data for Sample E47.

**Plastics Interlaboratory Testing Program  
Analysis 710**

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

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**Instrument Code List as Reported by the Labs**

(AT) - Atlas

(CS) - CSI

(EM) - Empire-Vortex

(RR) - Ray-Ran

(XA) - Special In-House Instrument

(CE) - Ceast

(DN) - DYNISCO

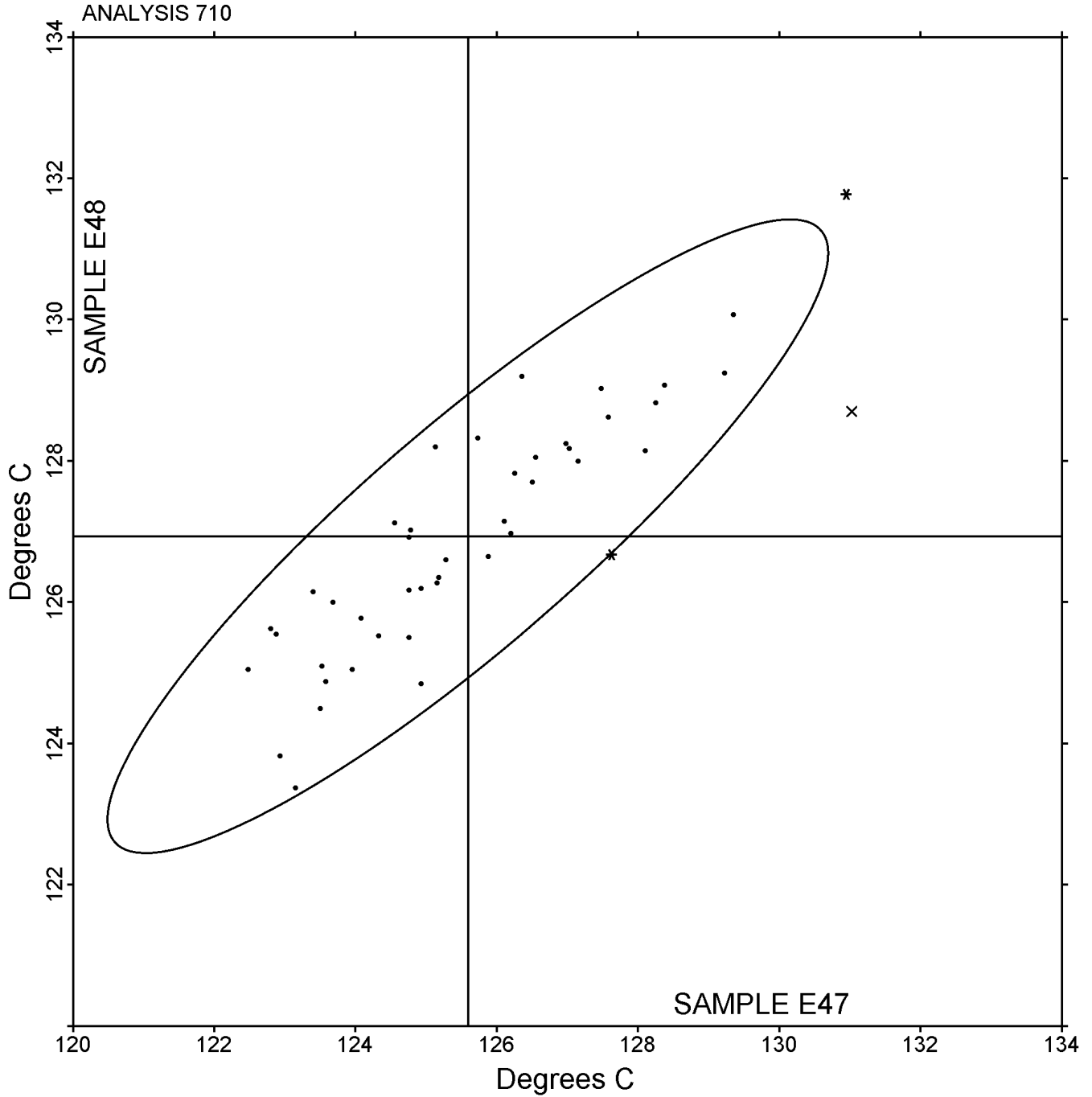
(RO) - Rosand

(TO) - Tinius Olsen

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample E47: 125.59 Degrees C    Grand Mean Sample E48: 126.94 Degrees C



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

**Plastics Interlaboratory Testing Program  
Analysis 711**

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

WebCode	Data Flag	Sample G47			Sample G48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1KTU42		83.5	-1.2	-0.28	93.0	-3.2	-0.76	EM
3MF4HW		89.6	4.9	1.12	101.5	5.3	1.25	EM
3RQ9ZS		89.5	4.8	1.10	100.9	4.7	1.12	XX
4BXBVJ		85.8	1.1	0.26	99.1	3.0	0.70	TY
4WSC3W		86.8	2.1	0.48	96.6	0.4	0.10	CS
5ANX8F		88.2	3.5	0.79	99.0	2.8	0.66	EM
5XF73K		85.5	0.8	0.19	95.0	-1.2	-0.28	TO
88NH88		87.6	2.9	0.67	98.0	1.9	0.44	DN
96V2FB		85.0	0.3	0.06	94.6	-1.6	-0.38	AT
9DYVXB	X	84.4	-0.3	-0.08	106.6	10.4	2.45	TO
9X1KLW		82.5	-2.2	-0.51	94.5	-1.7	-0.40	RO
B2PRC2	*	71.7	-13.0	-2.98	86.6	-9.6	-2.27	RR
BNMUYM	*	85.5	0.8	0.18	101.0	4.9	1.15	CE
DC55SZ		82.9	-1.8	-0.41	95.8	-0.4	-0.09	AT
E4QQFG		81.2	-3.5	-0.79	91.9	-4.3	-1.02	TO
GCMK8L		82.4	-2.3	-0.52	93.4	-2.8	-0.66	TO
JBPP3R		80.8	-3.9	-0.89	92.1	-4.0	-0.96	TO
L2CZ4N		85.2	0.5	0.12	95.9	-0.3	-0.06	TO
L6DGPG		80.8	-3.9	-0.89	91.8	-4.4	-1.04	CE
NDHP5N		84.4	-0.3	-0.06	95.6	-0.6	-0.14	CE
Q1T73U		80.7	-4.0	-0.92	93.2	-2.9	-0.70	TO
QUX75E		85.0	0.3	0.08	94.7	-1.4	-0.34	TY
QWHNV8	*	96.0	11.3	2.60	107.9	11.7	2.77	AT
RK3ZH7		88.0	3.3	0.75	99.8	3.6	0.85	CE
XLRERQ		84.0	-0.7	-0.15	96.3	0.2	0.04	TO
XNKWE6		81.6	-3.1	-0.71	93.1	-3.1	-0.73	CE
XQBCXK		87.9	3.2	0.73	99.4	3.2	0.76	TO

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

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**Summary Statistics**

**Grand Means**

84.68 Degrees C

96.17 Degrees C

**Std Dev Btwn Labs**

4.37 Degrees C

4.23 Degrees C

**Statistics based on 26 of 27 reporting participants**

**Sample G47: PP & Sample G48: PP**

**Comments on assigned Data Flags for Test #711**

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

**Instrument Code List as Reported by the Labs**

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(DN) - DYNISCO

(EM) - Empire-Vortex

(RO) - Rosand

(RR) - Ray-Ran

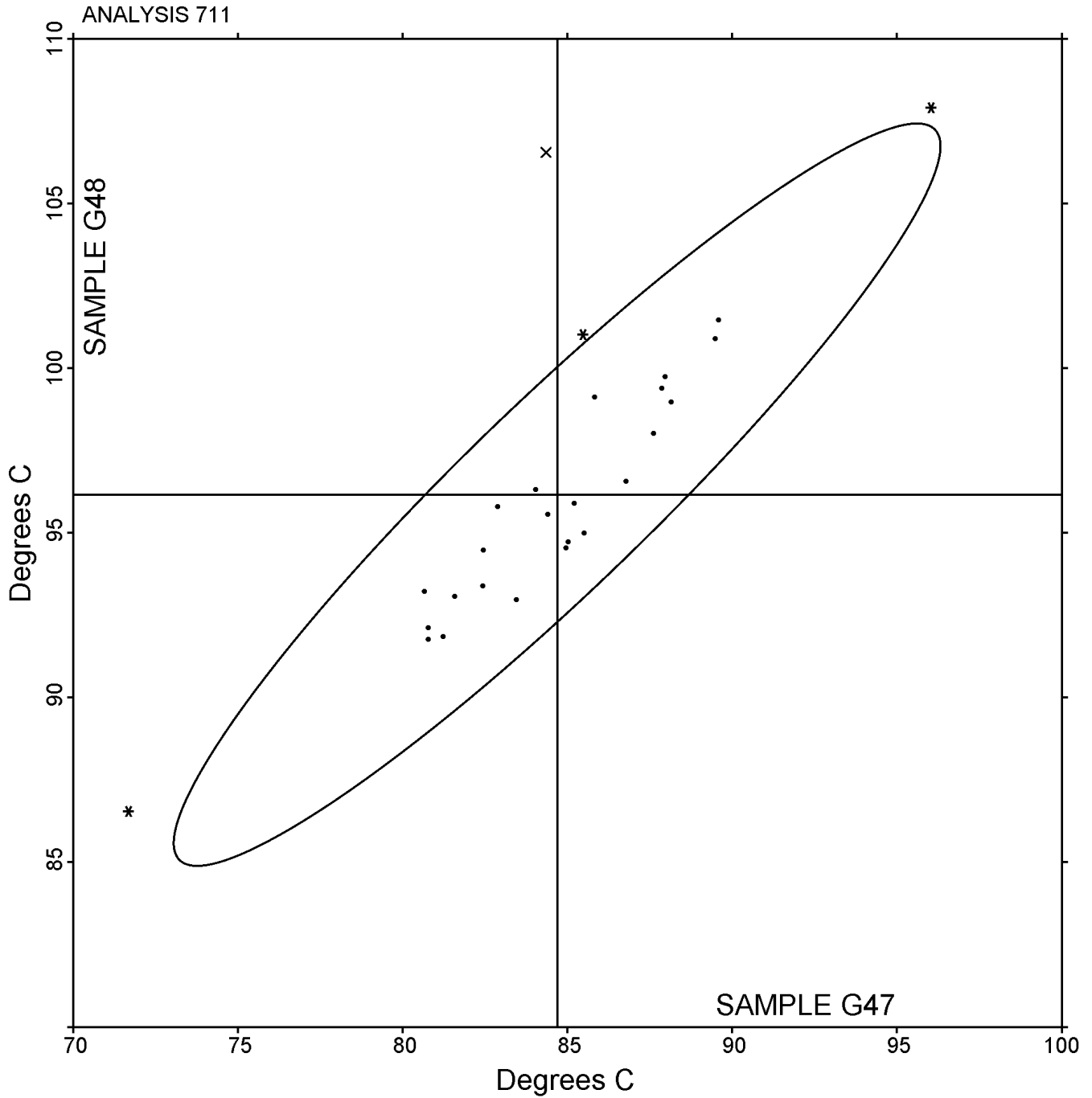
(TO) - Tinius Olsen

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample G47: 84.680 Degrees C    Grand Mean Sample G48: 96.172 Degrees C



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

**Plastics Interlaboratory Testing Program**  
**Analysis 712**

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

WebCode	Data Flag	Sample N47			Sample N48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2G9NCY		79.05	1.14	0.94	82.18	1.23	1.07	AT
5HEHX3		76.90	-1.01	-0.83	80.75	-0.20	-0.17	TO
5NZD4S		77.18	-0.73	-0.61	80.25	-0.70	-0.61	TO
6M7HV9		77.15	-0.76	-0.63	80.33	-0.62	-0.54	CE
6TFA8Y		78.58	0.67	0.55	81.38	0.43	0.37	AT
7TL44Y		76.83	-1.08	-0.89	79.90	-1.05	-0.91	TO
867L34		79.80	1.89	1.56	83.50	2.55	2.22	EM
91RJG4		78.78	0.87	0.71	81.68	0.73	0.63	AT
9YXLXD		77.45	-0.46	-0.38	81.23	0.28	0.24	XX
BLWMXY		76.43	-1.48	-1.22	79.50	-1.45	-1.26	XX
BMQERY		77.98	0.07	0.05	80.83	-0.12	-0.11	CE
D3B27U		78.05	0.14	0.12	81.00	0.05	0.05	RO
D8UWUP		77.20	-0.71	-0.58	80.40	-0.55	-0.47	CS
FXZ9A4	*	81.60	3.69	3.04	83.40	2.45	2.14	AT
HQ14WT		77.20	-0.71	-0.58	80.33	-0.62	-0.54	AT
HRU22G		76.60	-1.31	-1.08	80.05	-0.90	-0.78	AT
LBMNHZ		77.30	-0.61	-0.50	79.35	-1.60	-1.39	CE
NMMQGH		77.15	-0.76	-0.63	80.48	-0.47	-0.41	CE
NTHQEX		76.73	-1.18	-0.98	80.03	-0.92	-0.80	XX
PBEQN7		77.03	-0.88	-0.73	80.15	-0.80	-0.69	TO
QLL4QF		77.68	-0.23	-0.19	80.83	-0.12	-0.11	AT
QPU7N8		79.55	1.64	1.35	82.55	1.60	1.40	EM
QQFGBW		77.15	-0.76	-0.63	80.35	-0.60	-0.52	DN
QUU5XG		78.20	0.29	0.24	81.43	0.48	0.42	AT
R6CH5F		77.98	0.07	0.05	79.68	-1.27	-1.11	CE
REN5AH		78.28	0.37	0.30	80.95	0.00	0.00	AT
SBS3CF		78.03	0.12	0.10	80.60	-0.35	-0.30	XX
T8G527	*	80.00	2.09	1.72	81.38	0.43	0.37	CE
T9WBJH		77.23	-0.68	-0.56	80.33	-0.62	-0.54	AT
V9URCX	*	78.00	0.09	0.07	82.68	1.73	1.50	CE
VYR28V	X	78.98	1.07	0.88	78.98	-1.97	-1.71	AT
W198W2		80.78	2.87	2.36	83.50	2.55	2.22	AT

**Plastics Interlaboratory Testing Program  
Analysis 712**

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

WebCode	Data Flag	Sample N47			Sample N48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
WH92R2		77.10	-0.81	-0.67	80.38	-0.57	-0.50	CE
WKWD2L		77.50	-0.41	-0.34	80.80	-0.15	-0.13	TO
XXWF52		77.75	-0.16	-0.13	81.25	0.30	0.26	CE
Y6TQAL		78.50	0.59	0.49	81.75	0.80	0.70	AT
YTMYPY		75.95	-1.96	-1.62	78.40	-2.55	-2.21	CE
Z5EYYY		78.05	0.14	0.12	81.50	0.55	0.48	CE

**Summary Statistics**

**Grand Means**

77.909 Degrees C

80.946 Degrees C

**Std Dev Btwn Labs**

1.213 Degrees C

1.149 Degrees C

Statistics based on 37 of 38 reporting participants

**Sample N47: ABS & Sample N48: ABS**

**Comments on assigned Data Flags for Test #712**

VYR28V (X) - Inconsistent in testing between samples.

**Instrument Code List as Reported by the Labs**

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(DN) - DYNISCO

(EM) - Empire-Vortex

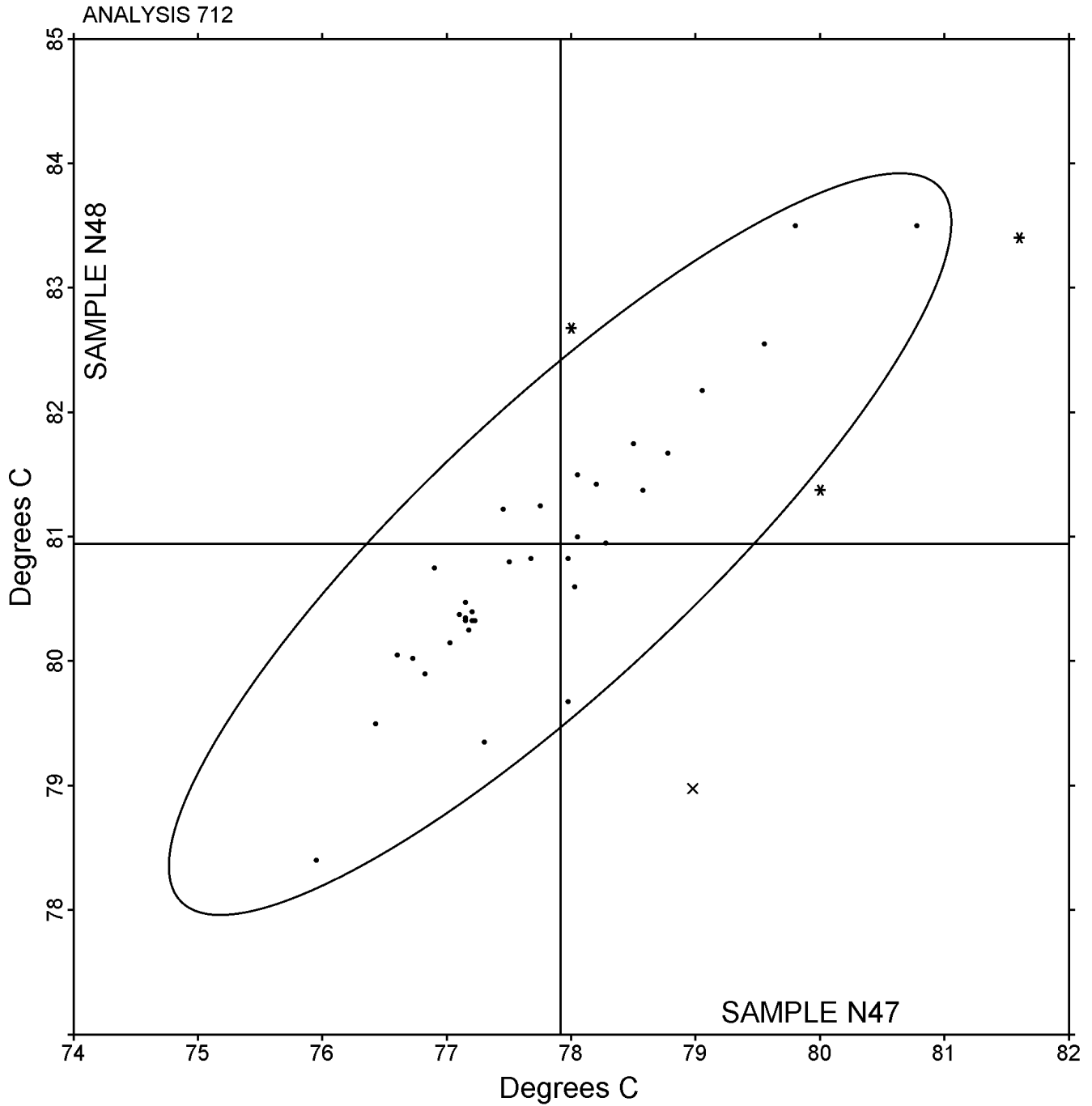
(RO) - Rosand

(TO) - Tinius Olsen

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample N47: 77.909 Degrees C    Grand Mean Sample N48: 80.946 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 H47			Sample H48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1RKJ4X		151.85	-0.18	-0.13	151.35	-0.23	-0.17	RO
25Q91W		152.90	0.87	0.62	151.65	0.07	0.05	TO
3XFAC7	M	153.55	1.52	1.09	No data reported for this sample			CE
4ATKZN		153.03	1.00	0.72	152.93	1.35	1.01	AT
6469HQ		152.68	0.65	0.47	152.02	0.44	0.33	XX
6AUGXV		150.00	-2.03	-1.45	150.00	-1.58	-1.18	CE
7DRAMJ		152.20	0.17	0.12	151.92	0.34	0.25	AT
7MPFF8		151.45	-0.58	-0.41	150.20	-1.38	-1.03	RR
AV2MNU	*	154.95	2.92	2.09	154.90	3.32	2.47	EM
BLVKYT		150.52	-1.51	-1.08	150.18	-1.40	-1.04	TO
FYD9FS		151.67	-0.36	-0.26	151.25	-0.33	-0.25	DN
G7QF14		153.57	1.54	1.10	152.87	1.29	0.96	EM
GCVD5Z		151.92	-0.11	-0.08	151.58	0.00	0.00	TO
J2L8CR		151.88	-0.15	-0.10	151.55	-0.03	-0.02	TO
J5PDY5		151.80	-0.23	-0.16	151.37	-0.21	-0.16	CE
N46SP3		151.33	-0.70	-0.50	150.67	-0.91	-0.68	CE
NTXXZX	X	158.02	5.99	4.29	156.52	4.94	3.67	TY
NZUUCN		154.33	2.30	1.65	153.42	1.84	1.37	TO
QF8C9M		151.50	-0.53	-0.38	151.33	-0.25	-0.18	CE
S3CFX5		150.93	-1.10	-0.78	150.35	-1.23	-0.91	CE
T2TNLA		154.87	2.84	2.03	154.53	2.95	2.20	XX
TFVGCA		151.48	-0.55	-0.39	151.33	-0.25	-0.18	CS
TMH9EP		151.68	-0.35	-0.25	151.25	-0.33	-0.25	XX
VPLRV4		152.13	0.10	0.07	151.38	-0.20	-0.15	CE
VPRCND		153.07	1.04	0.74	152.67	1.09	0.81	CE
W8SWYD		151.55	-0.48	-0.34	150.97	-0.61	-0.46	AT
WHS1VF		149.00	-3.03	-2.17	149.00	-2.58	-1.92	CE
ZUQW4K		152.48	0.45	0.33	151.98	0.40	0.30	TO
ZXA8Y1		150.00	-2.03	-1.45	150.00	-1.58	-1.18	EM

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

Summary Statistics			
<b>Grand Means</b>	152.029	Degrees C	151.580
			Degrees C
<b>Stnd Dev Btwn Labs</b>	1.396	Degrees C	1.344
			Degrees C
<b>Statistics based on 27 of 29 reporting participants</b>			

**Sample H47: PC & Sample H48: PC**

**Comments on assigned Data Flags for Test #715**

3XFAC7 (M) - Laboratory did not submit data for Sample H48.

NTXXZX (X) - High data for all samples.

**Instrument Code List as Reported by the Labs**

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(DN) - DYNISCO

(EM) - Empire-Vortex

(RO) - Rosand

(RR) - Ray-Ran

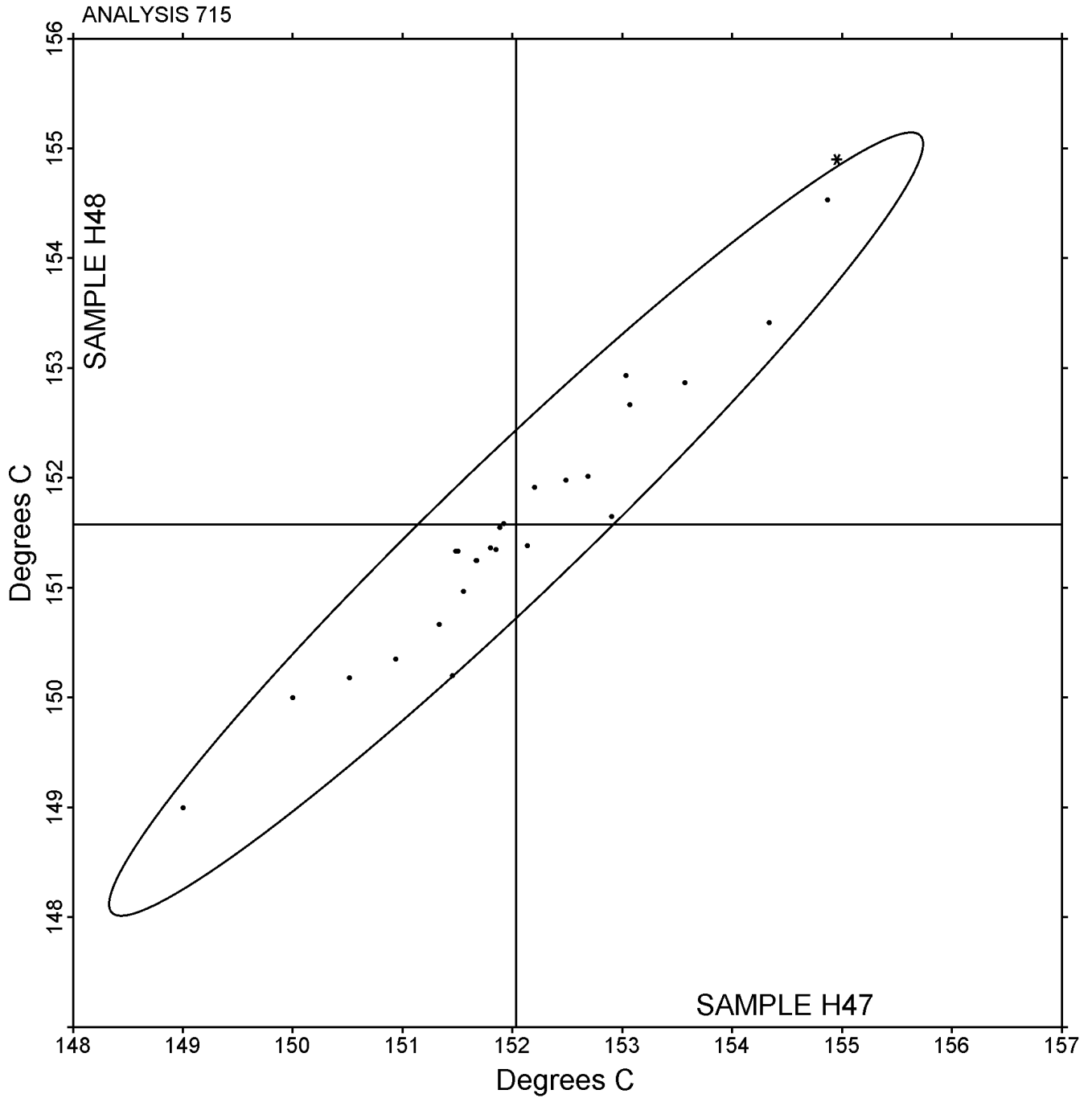
(TO) - Tinius Olsen

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample H47: 152.03 Degrees C    Grand Mean Sample H48: 151.58 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 R47			Sample R48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
33C4W6		153.85	0.08	0.04	153.77	0.49	0.24	DN
45EGRX		150.00	-3.77	-1.85	150.00	-3.27	-1.59	EM
5RWE88		152.33	-1.44	-0.70	152.33	-0.94	-0.46	CE
979JJG		153.88	0.12	0.06	153.37	0.09	0.05	AT
BSD5VR	*	157.32	3.55	1.74	155.77	2.49	1.21	TO
CAKHK1		153.60	-0.17	-0.08	152.92	-0.36	-0.17	AT
CBAVU6		153.47	-0.30	-0.15	153.00	-0.27	-0.13	TO
CZV9NL		155.52	1.75	0.86	154.65	1.38	0.67	XX
DE8WS2		149.00	-4.77	-2.34	149.00	-4.27	-2.08	CE
ETVBSR		153.63	-0.14	-0.07	152.83	-0.44	-0.21	CS
EWHT9R	*	152.42	-1.35	-0.66	150.75	-2.52	-1.23	TO
F2NZ58		153.53	-0.24	-0.12	153.18	-0.09	-0.04	CE
FXFMJ9	*	159.48	5.72	2.80	159.43	6.16	3.00	TY
G8YV32		153.10	-0.67	-0.33	152.62	-0.66	-0.32	TO
H9Q6H1		152.00	-1.77	-0.87	151.37	-1.91	-0.93	TO
JGKC2E		152.22	-1.55	-0.76	151.53	-1.74	-0.85	CE
K9B8Z1		153.85	0.08	0.04	153.13	-0.14	-0.07	TO
LR45EH	*	156.73	2.97	1.45	157.35	4.08	1.98	EM
LRMCMC		153.03	-0.74	-0.36	153.07	-0.21	-0.10	TO
NBU8TT		153.72	-0.05	-0.03	153.15	-0.12	-0.06	DN
P5CXML		153.35	-0.42	-0.21	152.87	-0.41	-0.20	TO
RB2D47		153.30	-0.47	-0.23	152.77	-0.51	-0.25	RO
RG1ZCX		155.58	1.82	0.89	154.80	1.53	0.74	EM
TFX6GW		153.87	0.10	0.05	153.18	-0.09	-0.04	CE
UQ5KBG		154.57	0.80	0.39	154.35	1.08	0.52	CE
XTY6QT		153.87	0.10	0.05	153.53	0.26	0.13	AT
Y42XEV		151.72	-2.05	-1.01	151.20	-2.07	-1.01	TO
YHFZED		155.02	1.25	0.61	154.33	1.05	0.51	CE
YSRHCU		153.05	-0.72	-0.35	152.30	-0.97	-0.47	CE
ZZ8M54		156.05	2.28	1.12	155.63	2.36	1.15	XX

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

**Summary Statistics**

**Grand Means**

153.768 Degrees C

153.273 Degrees C

**Std Dev Btwn Labs**

2.038 Degrees C

2.056 Degrees C

**Statistics based on 30 of 30 reporting participants**

**Sample R47: PC & Sample R48: PC**

**Instrument Code List as Reported by the Labs**

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(DN) - DYNISCO

(EM) - Empire-Vortex

(RO) - Rosand

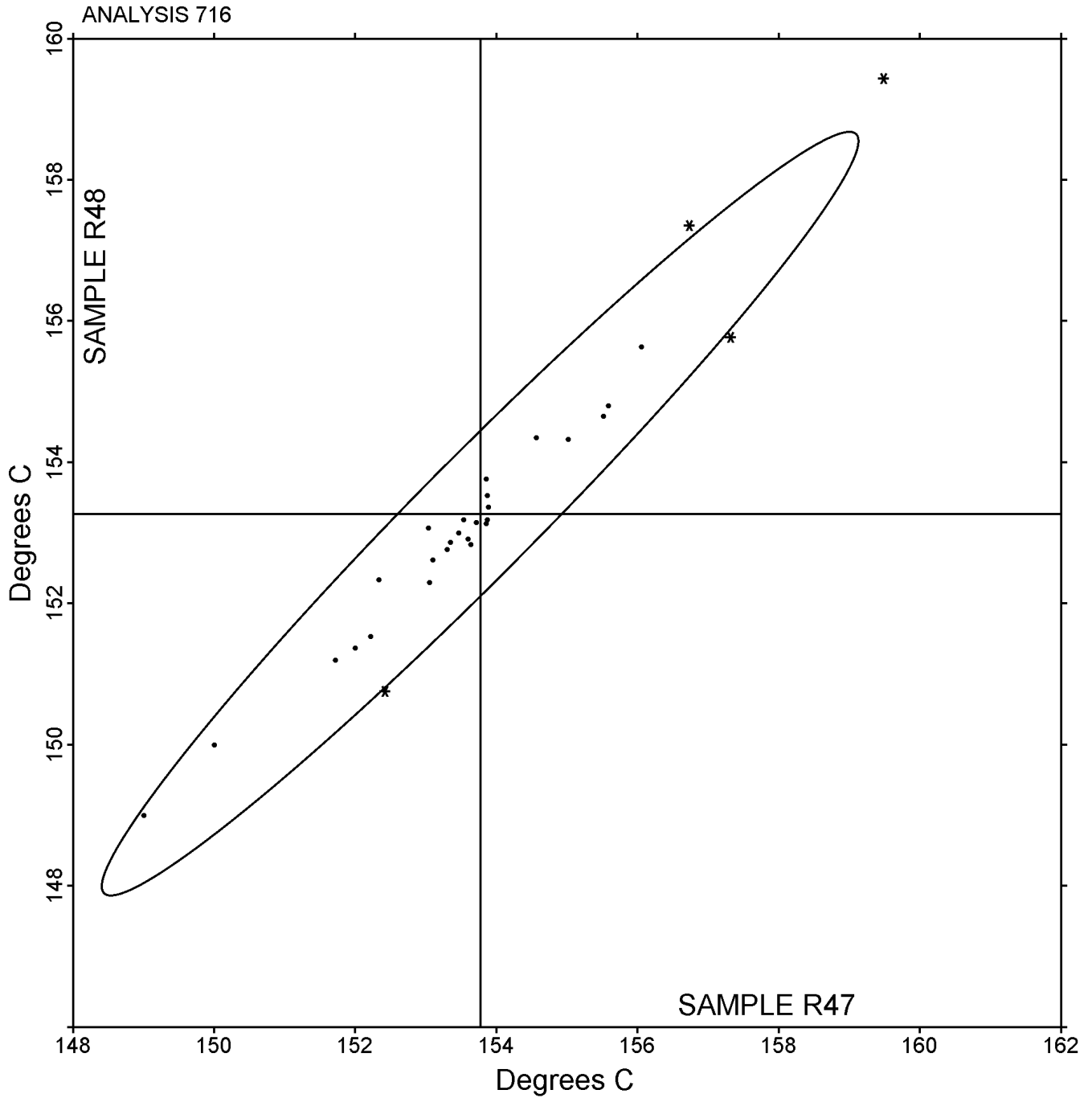
(TO) - Tinius Olsen

(TY) - Toyoseiki

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample R47: 153.77 Degrees C    Grand Mean Sample R48: 153.27 Degrees C



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

**Plastics Interlaboratory Testing Program**  
**Analysis 750**

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

WebCode	Data Flag	Sample X47			Sample X48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1CURYY		12.20	0.16	0.46	13.10	0.57	1.67	TO
31JGZG		11.95	-0.09	-0.24	12.30	-0.23	-0.67	GO
398R77		12.40	0.36	1.02	13.00	0.47	1.38	TO
3CLP6U	X	11.24	-0.80	-2.24	11.09	-1.44	-4.20	TO
3LEQRF		11.85	-0.19	-0.52	12.24	-0.29	-0.84	WZ
3PBBBA		12.15	0.11	0.30	12.68	0.15	0.44	TO
3W7YXR		11.45	-0.59	-1.64	12.25	-0.28	-0.81	TO
4ACC5T		11.55	-0.49	-1.36	12.05	-0.48	-1.40	CE
4QBPMR		12.32	0.28	0.79	12.72	0.19	0.56	TO
4XNRUV		12.09	0.05	0.14	12.66	0.13	0.37	DY
57WR9G		11.81	-0.23	-0.65	12.49	-0.04	-0.11	TO
5YV22T		11.77	-0.27	-0.76	12.66	0.13	0.38	TO
67H8BK		12.40	0.36	1.02	12.50	-0.03	-0.08	TO
6J1CPG		12.30	0.26	0.74	12.50	-0.03	-0.08	HA
6UDHJ6	X	12.70	0.66	1.86	12.35	-0.18	-0.52	TO
6Z8WBS	X	15.00	2.96	8.29	15.85	3.32	9.70	CE
6ZLM8Q		12.45	0.41	1.16	12.65	0.12	0.36	TO
72WTFC		12.41	0.38	1.05	12.53	0.00	0.00	TO
754EFJ		12.54	0.50	1.41	12.90	0.37	1.07	TO
7C75DG		12.10	0.06	0.18	12.50	-0.03	-0.08	TO
7N7WX1		12.05	0.01	0.04	12.75	0.22	0.65	TO
7S9GFT		12.26	0.22	0.63	12.56	0.03	0.08	WZ
87PXAC	X	13.86	1.82	5.10	13.22	0.69	2.02	DY
8AGYR2		12.25	0.21	0.60	12.70	0.17	0.50	DY
8QJC9X		11.60	-0.44	-1.22	12.10	-0.43	-1.25	TO
8UJT1T	*	11.25	-0.79	-2.20	11.50	-1.03	-3.00	GO
8WV41R		11.91	-0.13	-0.35	12.35	-0.18	-0.52	TO
8Y1X62		12.00	-0.04	-0.10	12.55	0.02	0.06	TO
92TTFM		12.10	0.06	0.18	12.50	-0.03	-0.08	HA
99CRTF	X	13.15	1.11	3.11	13.07	0.54	1.58	TO
9ZKX6C		11.60	-0.44	-1.22	12.10	-0.43	-1.25	KA
AAPQL2	*	11.05	-0.99	-2.76	11.84	-0.69	-2.01	XX

**Plastics Interlaboratory Testing Program**  
**Analysis 750**

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

WebCode	Data Flag	Sample X47			Sample X48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
AQF937		12.35	0.31	0.86	12.90	0.37	1.09	KA
ATSRVC		11.80	-0.24	-0.66	12.40	-0.13	-0.37	CS
ATXJ3Q		11.67	-0.37	-1.02	12.42	-0.11	-0.33	TO
B2QNW X		12.05	0.01	0.04	12.30	-0.23	-0.67	KA
B38Y13		11.95	-0.09	-0.24	12.55	0.02	0.06	TO
B7D8PS		11.65	-0.39	-1.08	12.00	-0.53	-1.54	TO
B7HBDJ		12.40	0.36	1.02	12.65	0.12	0.36	AS
BBTXUP		12.41	0.37	1.05	13.10	0.58	1.68	KA
BPWRH7		11.90	-0.14	-0.38	12.40	-0.13	-0.37	CE
BSG9JA		11.70	-0.34	-0.94	12.45	-0.08	-0.23	TO
BZ633A		11.70	-0.34	-0.94	12.35	-0.18	-0.52	TO
C79PDG		12.30	0.26	0.74	13.00	0.47	1.38	TO
CC13WV		12.15	0.11	0.32	12.50	-0.03	-0.08	KA
CQV34T	X	16.16	4.12	11.53	21.15	8.62	25.18	CE
CZMV2A		12.00	-0.04	-0.10	12.40	-0.13	-0.37	TO
D2FFN8		12.13	0.09	0.26	13.04	0.51	1.48	TO
DB5CCF		11.65	-0.39	-1.09	12.01	-0.52	-1.53	KA
DKXR4B		12.24	0.20	0.57	12.72	0.19	0.55	TO
DLMH6R	X	12.20	0.16	0.46	13.50	0.97	2.84	KA
DUKKWQ		11.95	-0.09	-0.24	12.10	-0.43	-1.25	XX
DW1W97		12.84	0.80	2.25	13.36	0.83	2.41	TO
E8LHFF		12.04	0.00	0.01	12.51	-0.02	-0.07	DY
EC9FDK		11.60	-0.44	-1.22	12.15	-0.38	-1.10	TO
EHV7RC		11.90	-0.14	-0.38	12.70	0.17	0.50	TY
EP1E97		11.70	-0.34	-0.94	12.30	-0.23	-0.67	TO
ES86L2	X	11.65	-0.39	-1.08	12.90	0.37	1.09	XX
EWJSCK		12.10	0.06	0.18	12.70	0.17	0.50	XX
EY5J7S		11.95	-0.09	-0.24	12.50	-0.03	-0.08	TO
FLTH6S	X	16.35	4.31	12.07	20.85	8.32	24.30	XX
FNESUT	*	11.25	-0.79	-2.20	12.25	-0.28	-0.81	KA
FT5BT2		12.60	0.56	1.58	13.15	0.62	1.82	CE
FWFFCP		11.85	-0.19	-0.52	12.50	-0.03	-0.08	TO

**Plastics Interlaboratory Testing Program**  
**Analysis 750**

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

WebCode	Data Flag	Sample X47			Sample X48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
GQRBQE		12.25	0.21	0.60	12.80	0.27	0.79	GO
GQZM3G		12.20	0.16	0.46	12.65	0.12	0.36	KA
GWTK67		11.53	-0.51	-1.42	12.10	-0.43	-1.27	CE
H2TVCT		11.80	-0.24	-0.66	12.00	-0.53	-1.54	TA
H34SJG		12.10	0.06	0.18	12.60	0.07	0.21	TO
HX6EJK		12.25	0.21	0.60	12.70	0.17	0.50	TO
J3MJEC		11.87	-0.17	-0.47	12.72	0.19	0.55	XX
J8GAV2		11.90	-0.14	-0.38	12.50	-0.03	-0.08	TO
JGAFUW		11.56	-0.48	-1.33	12.21	-0.32	-0.94	TO
JPDB3U		12.50	0.46	1.30	12.85	0.32	0.94	TO
K8TC2A	X	16.71	4.67	13.06	20.66	8.13	23.75	TO
K923TL	X	16.72	4.69	13.11	21.62	9.09	26.54	CE
K92LWZ		12.00	-0.04	-0.10	12.45	-0.08	-0.23	TO
KY43FG		12.55	0.51	1.44	12.80	0.27	0.79	XX
L6WBEG		12.00	-0.04	-0.10	12.50	-0.03	-0.08	TO
LBTQS7		11.65	-0.39	-1.08	12.40	-0.13	-0.37	TO
LFNQNV		12.10	0.06	0.18	12.45	-0.08	-0.23	AT
LVW7B4		12.15	0.11	0.32	12.60	0.07	0.21	KA
MD61HW		12.75	0.71	2.00	12.85	0.32	0.94	TO
MFHTUB		12.29	0.25	0.70	12.53	0.00	-0.01	TO
MJS2HS		12.05	0.01	0.04	12.85	0.32	0.94	TO
MMX2RZ		11.90	-0.14	-0.38	12.40	-0.13	-0.37	XX
MXF56R		11.95	-0.09	-0.24	12.40	-0.13	-0.37	KA
N89D4E		12.00	-0.04	-0.10	12.50	-0.03	-0.08	KA
N96N7H		11.72	-0.32	-0.90	11.97	-0.56	-1.64	KA
NJKR3J		12.65	0.61	1.72	13.05	0.52	1.52	TO
NK82HV	*	11.10	-0.94	-2.62	11.70	-0.83	-2.42	TO
P9M6TG	*	12.85	0.81	2.28	13.55	1.02	2.98	KA
PDMF2W		11.35	-0.69	-1.92	12.31	-0.22	-0.64	TO
PSDDPZ		12.34	0.30	0.85	13.18	0.65	1.89	TO
PTNZ57		11.95	-0.09	-0.24	12.35	-0.18	-0.52	CS

**Plastics Interlaboratory Testing Program**  
**Analysis 750**

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

WebCode	Data Flag	Sample X47			Sample X48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
PVVA3W		12.10	0.06	0.18	12.20	-0.33	-0.96	KA
Q5ADHG		11.80	-0.24	-0.66	12.55	0.02	0.06	TO
QHH6G8	X	1.15	-10.89	-30.45	1.20	-11.33	-33.08	TO
QNVJ8Z		12.30	0.26	0.74	12.45	-0.08	-0.23	TO
QYYQBD		12.05	0.01	0.04	12.35	-0.18	-0.52	TO
RQDZ17		12.30	0.26	0.74	12.70	0.17	0.49	KA
SGC7ZP		11.90	-0.14	-0.38	12.80	0.27	0.79	TO
SN99MA	*	11.40	-0.64	-1.78	12.55	0.02	0.06	GO
T5M78T		11.85	-0.19	-0.52	12.40	-0.13	-0.37	HA
T8GHRY		12.02	-0.02	-0.06	12.13	-0.40	-1.16	KA
TCAH39		11.55	-0.49	-1.36	12.25	-0.28	-0.81	TO
TUVX2K		11.81	-0.23	-0.63	11.92	-0.61	-1.78	WZ
TX98MV		11.80	-0.24	-0.66	12.40	-0.13	-0.37	TO
U6V25X	*	11.90	-0.14	-0.38	11.90	-0.63	-1.83	TO
UQF4WR		12.14	0.10	0.28	12.39	-0.14	-0.42	DY
UZ1FSB		12.25	0.21	0.60	12.75	0.22	0.65	TO
V5276F		12.24	0.20	0.56	12.38	-0.15	-0.43	CE
VMNXL8		12.35	0.31	0.88	12.70	0.17	0.50	TO
VV13QR	X	11.03	-1.01	-2.83	12.58	0.05	0.15	XA
WE9BFQ		12.20	0.16	0.46	12.70	0.17	0.50	TO
WGDM1X		12.57	0.53	1.48	12.97	0.44	1.28	TO
WH88SZ		12.15	0.11	0.32	12.50	-0.03	-0.08	TO
WJ8R6X		12.55	0.51	1.44	13.10	0.57	1.67	KA
X5PCHZ		12.15	0.11	0.32	12.70	0.17	0.50	TO
XES52R		12.05	0.01	0.04	12.55	0.02	0.06	TO
XTEUYV		12.80	0.76	2.14	13.10	0.57	1.67	CS
YHKRVC		12.31	0.27	0.75	12.78	0.25	0.72	DY
Z14N4J		12.21	0.17	0.47	12.80	0.27	0.79	DY
ZBCP4G	X	1.05	-10.99	-30.73	1.20	-11.33	-33.08	DY
ZBYJ62		12.30	0.26	0.74	12.70	0.17	0.50	TO
ZPZHAY		12.15	0.11	0.30	12.48	-0.05	-0.14	TO

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

**Summary Statistics**

**Grand Means**

12.036 grams/10 mins

12.528 grams/10 mins

**Std Dev Btwn Labs**

0.358 grams/10 mins

0.342 grams/10 mins

**Statistics based on 112 of 126 reporting participants**

**Sample X47: HDPE & Sample X48: HDPE**

**Comments on assigned Data Flags for Test #750**

3CLP6U (X) - Inconsistent in testing between samples, data for Sample X48 are low.

6UDHJ6 (X) - Inconsistent in testing between samples and inconsistent in testing within Sample X48.

6Z8WBS (X) - High data for all samples.

87PXAC (X) - Inconsistent in testing between samples, data for Sample X47 are high.

99CRTF (X) - Inconsistent in testing between samples and inconsistent in testing within both samples. High data for Sample X47.

CQV34T (X) - High data for all samples.

DLMH6R (X) - Inconsistent in testing between samples and inconsistent in testing within both samples. High data for Sample X48.

ES86L2 (X) - Inconsistent in testing between samples.

FLTH6S (X) - High data for all samples.

K8TC2A (X) - High data for all samples.

K923TL (X) - High data for all samples.

QHH6G8 (X) - Extreme data.

VV13QR (X) - Inconsistent in testing between samples and inconsistent in testing within Sample X47. Low data for Sample X47.

ZBCP4G (X) - Extreme data.

**Instrument Code List as Reported by the Labs**

(AS) - ATS

(AT) - Atlas

(CE) - Ceast

(CS) - CSI

(DY) - Dynisco

(GO) - Gottfert

(HA) - Haake

(KA) - Kayeness

(TA) - Takara

(TO) - Tinius Olsen

(TY) - Toyoseiki Seisakusho

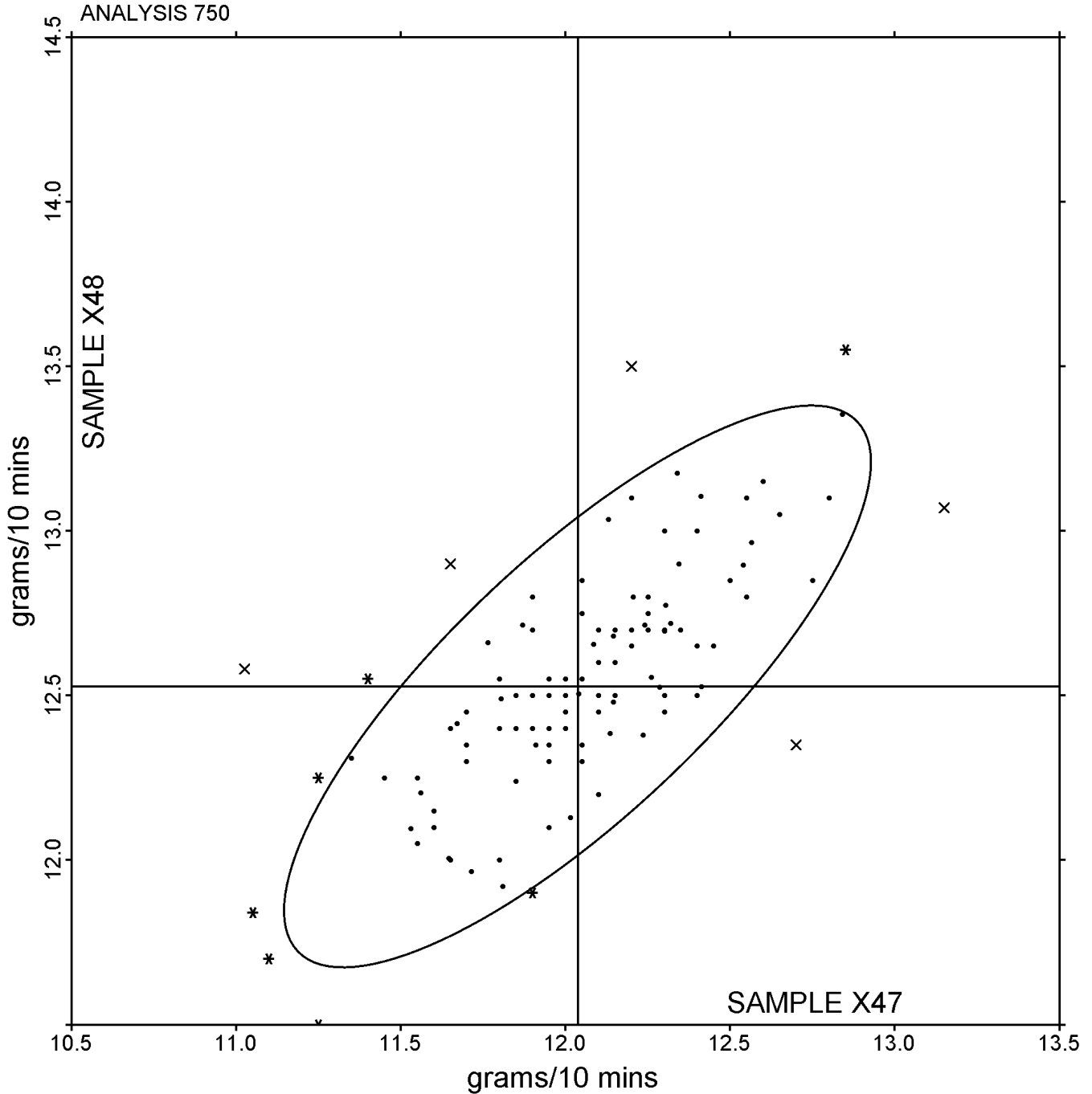
(WZ) - Zwick

(XA) - Special In-House Instrument

(XX) - Instrument manufacturer not specified by lab

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

Grand Mean Sample X47: 12.036 grams/10 mins    Grand Mean Sample X48: 12.528 grams/10 mins



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

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

WebCode	Data Flag	Sample T47			Sample T48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1KQWSB		1.19583	-0.00064	-0.30	1.19633	-0.00025	-0.13	XX
1QRR6N		1.19527	-0.00121	-0.57	1.19507	-0.00152	-0.78	XX
2FMEM2		1.19407	-0.00241	-1.13	1.19430	-0.00229	-1.18	XX
38VGB9		1.19757	0.00109	0.51	1.19813	0.00155	0.80	XX
3B6D5H		1.19623	-0.00024	-0.11	1.19670	0.00011	0.06	XX
3D35RV		1.19563	-0.00084	-0.39	1.19773	0.00115	0.59	XX
3LNY72		1.19633	-0.00014	-0.07	1.19533	-0.00125	-0.65	XX
3ZVY7W		1.19337	-0.00311	-1.46	1.19570	-0.00089	-0.46	XX
42BACM		1.19767	0.00119	0.56	1.19800	0.00141	0.73	XX
45K4Q1		1.19557	-0.00091	-0.43	1.19393	-0.00265	-1.37	XX
4JRNFX		1.19477	-0.00171	-0.80	1.19510	-0.00149	-0.77	XX
594WRY		1.19753	0.00106	0.50	1.19787	0.00128	0.66	XX
5B6DSW	*	1.19720	0.00073	0.34	1.19960	0.00301	1.55	XX
5GWB1C		1.19460	-0.00187	-0.88	1.19403	-0.00255	-1.32	XX
5KVQH8		1.19817	0.00169	0.80	1.19830	0.00171	0.88	XX
5USBD1		1.19500	-0.00147	-0.69	1.19533	-0.00125	-0.65	XX
6YB1QW		1.19767	0.00119	0.56	1.19780	0.00121	0.62	XX
7DX4BQ		1.19533	-0.00114	-0.54	1.19413	-0.00245	-1.26	XX
7T6JDE		1.19737	0.00089	0.42	1.19700	0.00041	0.21	XX
7W35YA		1.19867	0.00219	1.03	1.19703	0.00045	0.23	XX
86RQXF	X	1.18830	-0.00817	-3.84	1.19520	-0.00139	-0.71	XX
8EBMGG		1.19670	0.00023	0.11	1.19737	0.00078	0.40	XX
8HK45Z		1.19533	-0.00114	-0.54	1.19633	-0.00025	-0.13	XX
8K3EPX	X	1.19567	-0.00081	-0.38	1.20000	0.00341	1.76	XX
8LNUBE		1.19570	-0.00077	-0.36	1.19573	-0.00085	-0.44	XX
9862YK	X	1.18250	-0.01397	-6.57	1.18203	-0.01455	-7.49	XX
9U176H		1.19267	-0.00381	-1.79	1.19223	-0.00435	-2.24	XX
A5P6YY		1.20000	0.00353	1.66	1.20000	0.00341	1.76	XX
ABUF8L		1.19567	-0.00081	-0.38	1.19567	-0.00092	-0.47	XX
AKYYJG		1.19650	0.00003	0.01	1.19703	0.00045	0.23	XX
AQUUD2		1.19643	-0.00004	-0.02	1.19677	0.00018	0.09	XX
B7JHZZ		1.19813	0.00166	0.78	1.19687	0.00028	0.14	XX

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

WebCode	Data Flag	Sample T47			Sample T48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
BCLYSX		1.19833	0.00186	0.88	1.19867	0.00208	1.07	XX
BLWMNA		1.19293	-0.00354	-1.66	1.19327	-0.00332	-1.71	XX
BNQTEV		1.19523	-0.00124	-0.58	1.19690	0.00031	0.16	XX
C8DXW1		1.19397	-0.00251	-1.18	1.19507	-0.00152	-0.78	XX
D4ZNBA		1.19747	0.00099	0.47	1.19740	0.00081	0.42	XX
DCK14E		1.19730	0.00083	0.39	1.19813	0.00155	0.80	XX
DFV8YF		1.19933	0.00286	1.35	1.19867	0.00208	1.07	XX
DLSB57		1.19240	-0.00407	-1.91	1.19330	-0.00329	-1.69	XX
DR8U4M		1.19796	0.00149	0.70	1.19816	0.00157	0.81	XX
DW9Z84		1.19793	0.00146	0.69	1.19700	0.00041	0.21	XX
EGGJP5		1.19787	0.00139	0.66	1.19780	0.00121	0.62	XX
EPVAAW	X	1.19000	-0.00647	-3.04	1.19000	-0.00659	-3.39	XX
EQR9NH	*	1.19143	-0.00504	-2.37	1.19327	-0.00332	-1.71	XX
F7N7X5	X	1.62490	0.42843	201.40	2.13387	0.93728	482.45	XX
FN4ERM		1.19217	-0.00431	-2.02	1.19283	-0.00375	-1.93	XX
FNKLT5		1.19765	0.00118	0.55	1.19835	0.00176	0.91	XX
FUPDAG		1.19940	0.00293	1.38	1.19910	0.00251	1.29	XX
FXCWMB		1.19537	-0.00111	-0.52	1.19630	-0.00029	-0.15	XX
FZ56U2		1.19410	-0.00237	-1.11	1.19513	-0.00145	-0.75	XX
G21WY7		1.19707	0.00059	0.28	1.19780	0.00121	0.62	XX
GM4YN8		1.19613	-0.00034	-0.16	1.19557	-0.00102	-0.53	XX
GNLVKW		1.19667	0.00019	0.09	1.19600	-0.00059	-0.30	XX
GPB3LK		1.19660	0.00013	0.06	1.19657	-0.00002	-0.01	XX
GUE75A		1.19733	0.00086	0.41	1.19900	0.00241	1.24	XX
GWMAXN	*	1.19560	-0.00087	-0.41	1.19330	-0.00329	-1.69	XX
J78J6F		1.19780	0.00133	0.62	1.19763	0.00105	0.54	XX
JG45SR		1.19567	-0.00081	-0.38	1.19537	-0.00122	-0.63	XX
JGVM7P		1.19767	0.00119	0.56	1.19783	0.00125	0.64	XX
JJMZAL		1.20020	0.00373	1.75	1.19920	0.00261	1.34	XX
KTZ1VE	*	1.19327	-0.00321	-1.51	1.19160	-0.00499	-2.57	XX
KXNZN8		1.19773	0.00126	0.59	1.19910	0.00251	1.29	XX
ME46BX		1.19757	0.00109	0.51	1.19797	0.00138	0.71	XX

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

WebCode	Data Flag	Sample T47			Sample T48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
ML14J5		1.20050	0.00403	1.89	1.19843	0.00185	0.95	XX
MNG5ZE		1.19480	-0.00167	-0.79	1.19677	0.00018	0.09	XX
MNYL89		1.19680	0.00033	0.15	1.19773	0.00115	0.59	XX
MYEMCG		1.19683	0.00036	0.17	1.19657	-0.00002	-0.01	XX
N2CYUM		1.19217	-0.00431	-2.02	1.19283	-0.00375	-1.93	XX
NNPID3	X	1.19217	-0.00431	-2.02	1.18797	-0.00862	-4.44	XX
NUU7Y1		1.19760	0.00113	0.53	1.19693	0.00035	0.18	XX
NQHN6L		1.19733	0.00086	0.41	1.19767	0.00108	0.56	XX
NTHKMM		1.19790	0.00143	0.67	1.19777	0.00118	0.61	XX
PBTZUM		1.19700	0.00053	0.25	1.19700	0.00041	0.21	XX
PKSJDV		1.19573	-0.00074	-0.35	1.19657	-0.00002	-0.01	XX
PNVGM4		1.19643	-0.00004	-0.02	1.19610	-0.00049	-0.25	XX
PPVR57		1.19287	-0.00361	-1.69	1.19513	-0.00145	-0.75	XX
QEVEPX	*	1.19037	-0.00611	-2.87	1.19090	-0.00569	-2.93	XX
QGXFBN	X	1.18883	-0.00764	-3.59	1.10537	-0.09122	-46.95	XX
QNLAWN		1.19770	0.00123	0.58	1.19767	0.00108	0.56	XX
QXQ1B7		1.20083	0.00436	2.05	1.19950	0.00291	1.50	XX
R4SU93	X	1.19257	-0.00391	-1.84	1.18900	-0.00759	-3.91	XX
R4ZZMK		1.19813	0.00166	0.78	1.19813	0.00155	0.80	XX
RNRZFZ9		1.19803	0.00156	0.73	1.19730	0.00071	0.37	XX
RQE3F2		1.19693	0.00046	0.22	1.19793	0.00135	0.69	XX
SEYUW2	*	1.20180	0.00533	2.50	1.20010	0.00351	1.81	XX
TPD9WG		1.19567	-0.00081	-0.38	1.19633	-0.00025	-0.13	XX
TZ6PQY		1.19337	-0.00311	-1.46	1.19273	-0.00385	-1.98	XX
U4JDRC		1.19710	0.00063	0.30	1.19633	-0.00025	-0.13	XX
U4UNTF		1.19767	0.00119	0.56	1.19777	0.00118	0.61	XX
UJBV76		1.19793	0.00146	0.69	1.19840	0.00181	0.93	XX
UZGJJY		1.19930	0.00283	1.33	1.19803	0.00145	0.74	XX
V1L5FH		1.19613	-0.00034	-0.16	1.19580	-0.00079	-0.41	XX
V67BPV		1.19567	-0.00081	-0.38	1.19567	-0.00092	-0.47	XX
VC6BQR		1.19403	-0.00244	-1.15	1.19477	-0.00182	-0.94	XX

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

WebCode	Data Flag	Sample T47			Sample T48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
VZ3EWC	*	1.19033	-0.00614	-2.89	1.19100	-0.00559	-2.88	XX
W3AW1L		1.19773	0.00126	0.59	1.19763	0.00105	0.54	XX
WB8XLQ		1.19673	0.00026	0.12	1.19690	0.00031	0.16	XX
WFYWWU		1.19700	0.00053	0.25	1.19710	0.00051	0.26	XX
WJUQAW		1.19742	0.00095	0.45	1.19649	-0.00010	-0.05	XX
WLHNNR		1.19657	0.00009	0.04	1.19777	0.00118	0.61	XX
WY81ZH		1.19833	0.00186	0.88	1.19830	0.00171	0.88	XX
XGHWUH		1.19797	0.00149	0.70	1.19773	0.00115	0.59	XX
XMV4J8		1.19507	-0.00141	-0.66	1.19740	0.00081	0.42	XX
YKX27R	X	1.19250	-0.00397	-1.87	1.19070	-0.00589	-3.03	XX
YTT8Z3		1.19900	0.00253	1.19	1.19903	0.00245	1.26	XX
Z53XF8	X	1.18930	-0.00717	-3.37	1.18797	-0.00862	-4.44	XX
ZBGJWJ		1.19833	0.00186	0.88	1.19633	-0.00025	-0.13	XX
ZCNZWB	X	1.19000	-0.00647	-3.04	1.18000	-0.01659	-8.54	XX
ZDNMJM		1.19700	0.00053	0.25	1.19563	-0.00095	-0.49	XX
ZEEF8S		1.19580	-0.00067	-0.32	1.19743	0.00085	0.44	XX
ZJ174E		1.19877	0.00229	1.08	1.19857	0.00198	1.02	XX
ZK4PJP		1.19643	-0.00004	-0.02	1.19613	-0.00045	-0.23	XX
ZRBWJR		1.19593	-0.00054	-0.25	1.19617	-0.00042	-0.22	XX
ZVL9VJ		1.19690	0.00043	0.20	1.19697	0.00038	0.19	XX

Summary Statistics	
<b>Grand Means</b>	
1.196472 sp gr 23/23 C	1.196588 sp gr 23/23 C
<b>Std Dev Btwn Labs</b>	
0.002127 sp gr 23/23 C	0.001943 sp gr 23/23 C
<b>Statistics based on 104 of 115 reporting participants</b>	

Sample T47: PC & Sample T48: PC

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

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**Comments on assigned Data Flags for Test #718**

86RQXF (X) - Inconsistent in testing between samples and inconsistent in testing within Sample T47. Low data for Sample T47.

8K3EPX (X) - Inconsistent in testing between samples and inconsistent in testing within Sample T48.

9862YK (X) - Low data for all samples.

EPVAAW (X) - Low data for all samples. Possible systematic error.

F7N7X5 (X) - Extreme data.

NNP1D3 (X) - Inconsistent in testing between samples, data for Sample T48 are low.

QGXFBN (X) - Extreme data.

R4SU93 (X) - Inconsistent in testing between samples and inconsistent in testing within both samples. Low data for Sample T48.

YKX27R (X) - Inconsistent in testing between samples, data for Sample T48 are low.

Z53XF8 (X) - Low data for all samples.

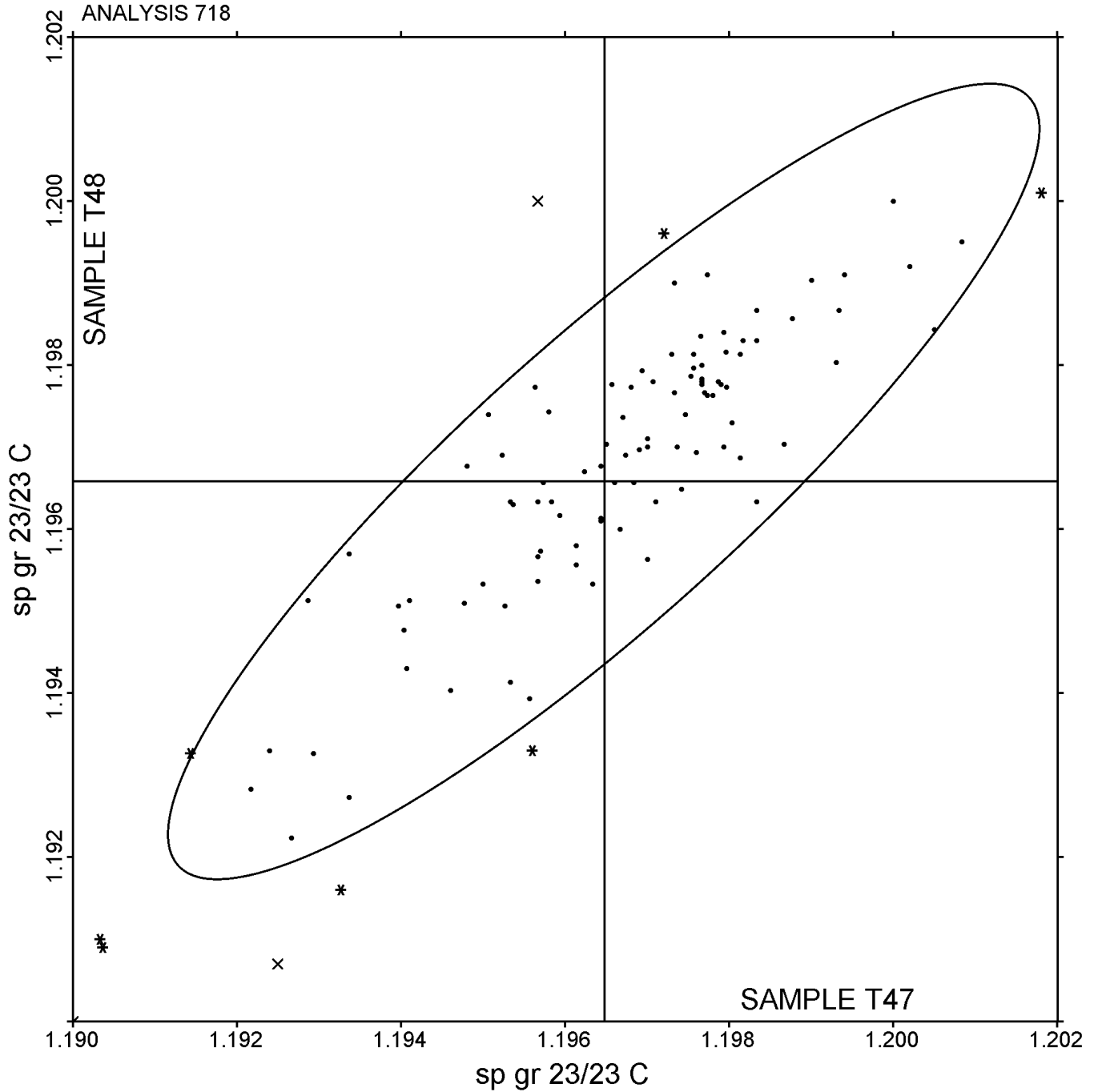
ZCNZWB (X) - Low data for all samples. Data reported with insufficient precision.

**Instrument Code List as Reported by the Labs**

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

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

Grand Mean Sample T47: 1.1965 sp gr 23/23 C    Grand Mean Sample T48: 1.1966 sp gr 23/23 C



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

**Plastics Interlaboratory Testing Program  
Analysis 757**

**Ash Content in Thermoplastics - Percent**

WebCode	Data Flag	Sample L47			Sample L48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1QF6YS		17.945	0.113	0.66	15.365	0.256	2.15	XX
1X1AZR		17.805	-0.027	-0.16	15.270	0.161	1.35	XX
2F5XKH		17.835	0.003	0.02	14.925	-0.184	-1.55	XX
2PKJ3K		17.505	-0.327	-1.91	14.950	-0.159	-1.34	XX
2TS5FY		17.845	0.013	0.08	15.155	0.046	0.39	XX
3AE4HU		17.650	-0.182	-1.06	15.210	0.101	0.85	XX
413FW9		17.790	-0.042	-0.24	15.110	0.001	0.01	XX
45NUPW		18.100	0.268	1.57	15.295	0.186	1.56	XX
4A6TS1		17.845	0.013	0.08	15.175	0.066	0.55	XX
4LDEA4		17.540	-0.292	-1.71	15.030	-0.079	-0.67	XX
5PKXF3		18.020	0.188	1.10	15.255	0.146	1.23	XX
5RA4WV		18.000	0.168	0.98	15.155	0.046	0.39	XX
6VNQGQ		17.830	-0.002	-0.01	14.920	-0.189	-1.59	XX
769TWX		17.940	0.108	0.63	15.085	-0.024	-0.20	XX
7C5N5H		18.020	0.188	1.10	15.055	-0.054	-0.46	XX
7M7H8Z		17.690	-0.142	-0.83	14.945	-0.164	-1.38	XX
8N9N49		17.875	0.043	0.25	15.200	0.091	0.76	XX
8RF677		18.005	0.173	1.01	15.285	0.176	1.48	XX
AJLHZQ		18.075	0.243	1.42	15.180	0.071	0.60	XX
AQUAQL	X	11.470	-6.362	-37.18	21.740	6.631	55.84	XX
BDGTQ8	X	18.320	0.488	2.85	14.695	-0.414	-3.49	XX
C24VG1		17.710	-0.122	-0.71	15.175	0.066	0.55	XX
D31GWB		17.740	-0.092	-0.54	15.080	-0.029	-0.25	XX
DXNVSC	X	27.040	9.208	53.82	20.575	5.466	46.03	XX
E5PU6B		17.610	-0.222	-1.30	15.025	-0.084	-0.71	XX
EJKR3C		18.045	0.213	1.25	15.045	-0.064	-0.54	XX
F29XTD	*	17.525	-0.307	-1.79	14.860	-0.249	-2.10	XX
FA5HS7		17.850	0.018	0.11	15.200	0.091	0.76	XX
FBN5YG		17.820	-0.012	-0.07	15.310	0.201	1.69	XX
FGVY5T		17.800	-0.032	-0.19	15.120	0.011	0.09	XX
FN4CWQ		17.685	-0.147	-0.86	15.040	-0.069	-0.58	XX
GEYMA7		17.975	0.143	0.84	15.135	0.026	0.22	XX

**Plastics Interlaboratory Testing Program  
Analysis 757**

**Ash Content in Thermoplastics - Percent**

WebCode	Data Flag	Sample L47			Sample L48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
GGCXUG	X	23.384	5.552	32.45	18.504	3.395	28.59	XX
GRWW5K		17.895	0.063	0.37	15.185	0.076	0.64	XX
HBEU9Q	X	23.050	5.218	30.50	16.250	1.141	9.61	XX
HCHZY6		17.865	0.033	0.19	14.935	-0.174	-1.47	XX
JAASJH	*	17.420	-0.412	-2.41	15.220	0.111	0.93	XX
JVCWU4	X	19.695	1.863	10.89	15.280	0.171	1.44	XX
KKBM7E		17.700	-0.132	-0.77	15.140	0.031	0.26	XX
KLRKKK		17.935	0.103	0.60	15.175	0.066	0.55	XX
LRW2CX		17.790	-0.042	-0.24	15.210	0.101	0.85	XX
LX2A2X		18.075	0.243	1.42	15.095	-0.014	-0.12	XX
LX3KXC		17.980	0.148	0.87	14.925	-0.184	-1.55	XX
LXCMDR		17.830	-0.002	-0.01	15.165	0.056	0.47	XX
M5H5VN		17.790	-0.042	-0.24	15.210	0.101	0.85	XX
M9MLSG		17.690	-0.142	-0.83	15.170	0.061	0.51	XX
NBKH6P		17.890	0.058	0.34	15.040	-0.069	-0.58	XX
NS1W7A		17.965	0.133	0.78	15.005	-0.104	-0.88	XX
P35TUG		18.140	0.308	1.80	15.025	-0.084	-0.71	XX
SCQE52		17.705	-0.127	-0.74	15.035	-0.074	-0.62	XX
SRHTT6		18.055	0.223	1.30	15.155	0.046	0.39	XX
SZJ8CR	X	21.905	4.073	23.80	17.715	2.606	21.94	XX
T9TSR6		17.645	-0.187	-1.09	15.040	-0.069	-0.58	XX
TMN1VT		17.910	0.078	0.46	15.115	0.006	0.05	XX
TNSC3T		17.900	0.068	0.40	15.090	-0.019	-0.16	XX
TPA5CJ		17.850	0.018	0.11	15.150	0.041	0.34	XX
U1XQZK		17.660	-0.172	-1.00	15.110	0.001	0.01	XX
UMW3QJ	*	18.235	0.403	2.36	14.900	-0.209	-1.76	XX
UVCZX4		17.955	0.123	0.72	15.080	-0.029	-0.25	XX
UXW8LZ		17.665	-0.167	-0.98	15.290	0.181	1.52	XX
UZ4X8N		17.955	0.123	0.72	15.175	0.066	0.55	XX
WLXHAW		17.489	-0.343	-2.01	15.067	-0.043	-0.36	XX
WTNVNY	X	17.540	-0.292	-1.71	14.220	-0.889	-7.49	XX
X8XFQH		17.720	-0.112	-0.65	15.145	0.036	0.30	XX

**Plastics Interlaboratory Testing Program  
Analysis 757**

**Ash Content in Thermoplastics - Percent**

WebCode	Data Flag	Sample L47			Sample L48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XL2S73		17.741	-0.091	-0.53	15.051	-0.059	-0.49	XX
Z7E62J		17.870	0.038	0.22	15.175	0.066	0.55	XX
ZEYSZR		17.785	-0.047	-0.28	15.146	0.037	0.31	XX
ZRJCWC	*	17.735	-0.097	-0.57	14.775	-0.334	-2.81	XX

Summary Statistics			
<b>Grand Means</b>	17.8319	Percent	15.1092
			Percent
<b>Std Dev Btwn Labs</b>	0.1711	Percent	0.1188
			Percent
<b>Statistics based on 60 of 68 reporting participants</b>			

**Sample L47: PBT & Sample L48: PBT**

**Comments on assigned Data Flags for Test #757**

- AQUAQL (X) - Low data for Sample L47. High data for Sample L48.
- BDGTQ8 (X) - High data for Sample L47. Low data for Sample L48.
- DXNVSC (X) - High data for all samples.
- GGCXUG (X) - High data for all samples.
- HBEU9Q (X) - High data for all samples.
- JVCWU4 (X) - High data for Sample L47.
- SZJ8CR (X) - High data for all samples.
- WTNVNY (X) - Low data for Sample L48. Inconsistent in testing within Sample L47.

**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 B47			Sample B48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1JU6P6		1,682	21	0.13	1,800	26	0.15	IN
1V2N17		1,872	211	1.33	1,982	208	1.23	IN
3DM9G2	M	1,917	256	1.61	No data reported for this sample			IN
51GBRF		1,697	35	0.22	1,771	-3	-0.02	IN
CATBYU		1,738	77	0.48	1,875	100	0.59	OR
D5XDQV		1,615	-46	-0.29	1,740	-34	-0.20	UC
D7HPCQ		1,764	102	0.65	1,923	149	0.88	TH
GZ3VHY	X	3,019	1,358	8.56	3,680	1,905	11.22	TH
HWGC6R		1,320	-341	-2.15	1,394	-381	-2.24	IN
KT12MQ		1,497	-165	-1.04	1,618	-156	-0.92	IN
QYKT57		1,703	42	0.27	1,825	51	0.30	IM
UJ3CS9		1,515	-146	-0.92	1,616	-158	-0.93	MT
W3BB9Y		1,874	213	1.34	1,981	207	1.22	IN
WJ42AN		1,658	-3	-0.02	1,766	-8	-0.05	IN

Summary Statistics	
<b>Grand Means</b>	
1,661.2 psi	1,774.4 psi
<b>Std Dev Btwn Labs</b>	
158.7 psi	169.7 psi
<b>Statistics based on 12 of 14 reporting participants</b>	

**Sample B47:** LDPE & **Sample B48:** LDPE

**Comments on assigned Data Flags for Test #770**

3DM9G2 (M) - Laboratory did not submit data for Sample B48.

GZ3VHY (X) - High data for all samples.

**Instrument Code List as Reported by the Labs**

(IM) - Instru-Met Instruments

(IN) - Instron

(MT) - MTS/Sintech

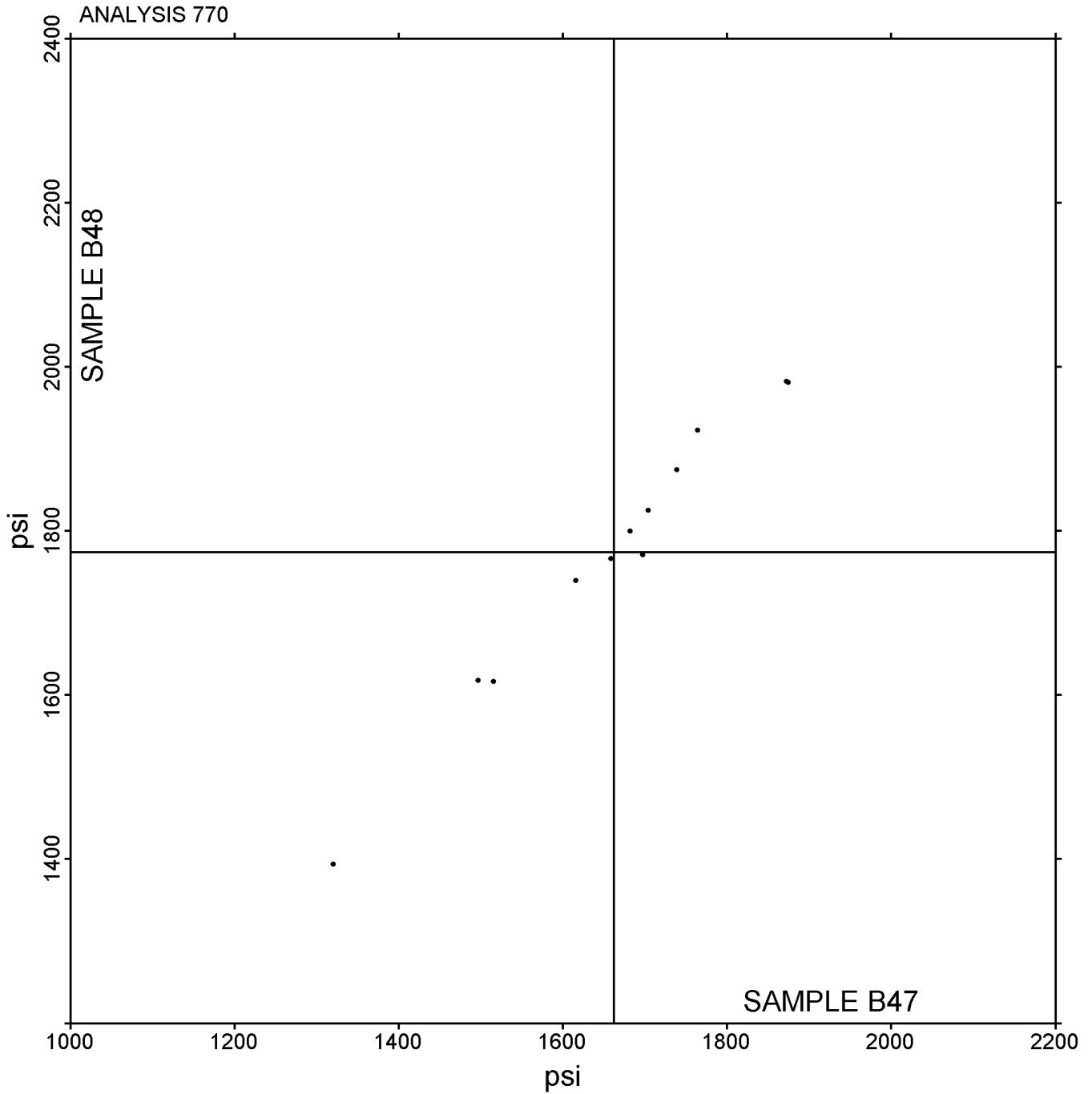
(OR) - Orientec

(TH) - Thwing Albert

(UC) - United

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

Grand Mean Sample B47: 1,661.25 psi    Grand Mean Sample B48: 1,774.44 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 B47			Sample B48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
18MUUW		4,382	463	1.44	4,729	503	1.55	IN
19RJSM		4,037	118	0.37	4,296	70	0.22	IM
1P2QFK		3,974	55	0.17	4,277	51	0.16	IN
3F7EK7		4,176	257	0.80	4,399	173	0.53	IN
4MMBXT		3,726	-194	-0.60	4,111	-115	-0.35	IM
6PPB4P		3,318	-601	-1.88	3,688	-538	-1.66	SH
84XJ2C		3,823	-96	-0.30	4,362	136	0.42	IN
AQB73V		3,935	15	0.05	4,400	174	0.54	MT
BFYPUW		3,939	20	0.06	4,476	250	0.77	TH
CNL6AU		3,587	-333	-1.04	3,743	-483	-1.49	IN
CPMVA Y	*	4,715	796	2.49	4,736	510	1.57	IR
ECMFA7		3,569	-351	-1.10	3,820	-406	-1.25	WZ
EUFJ9U		3,977	58	0.18	4,324	98	0.30	OR
FIQDH4		3,987	68	0.21	4,087	-139	-0.43	IN
GSLK4X		3,896	-23	-0.07	4,088	-138	-0.43	TH
L72ZG2		3,676	-243	-0.76	3,980	-246	-0.76	IN
PKZBLJ		3,976	57	0.18	4,136	-90	-0.28	IN
R58M3T		4,226	306	0.96	4,596	370	1.14	HO
VHQ133		4,014	95	0.30	4,242	16	0.05	IN
VYY4FG		3,373	-546	-1.70	3,646	-580	-1.79	IN
XRSQHA		3,998	79	0.25	4,610	384	1.18	UC

Summary Statistics	
<b>Grand Means</b>	
3,919.3 psi	4,225.9 psi
<b>Std Dev Btwn Labs</b>	
320.2 psi	324.1 psi
<b>Statistics based on 21 of 21 reporting participants</b>	

Sample B47: LDPE & Sample B48: LDPE

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

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**Instrument Code List as Reported by the Labs**

(HO) - Hounsfield Instruments

(IM) - Instru-Met Instruments

(IN) - Instron

(IR) - Instron with retrofit

(MT) - MTS/Sintech

(OR) - Orientec

(SH) - Shimadzu

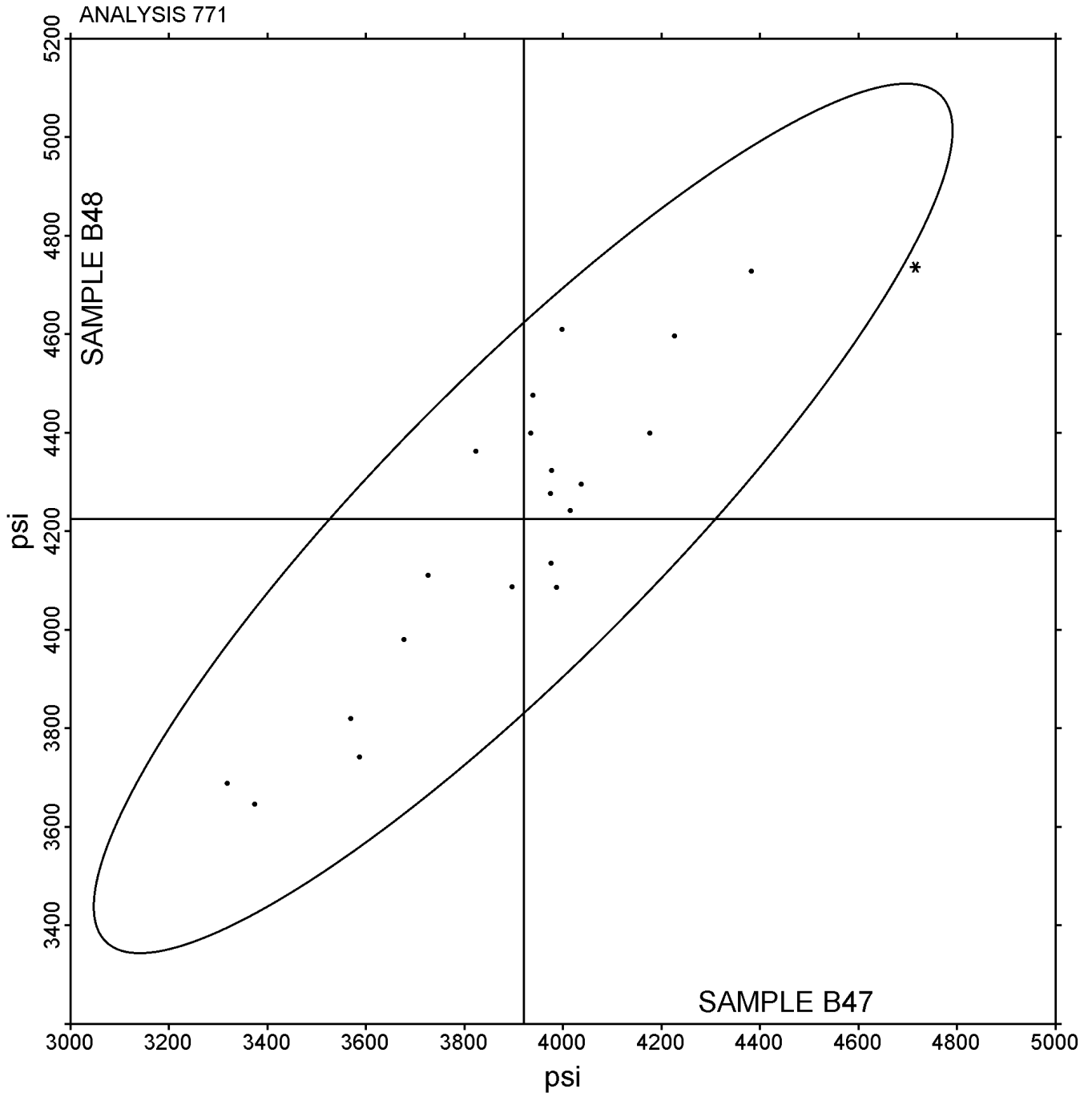
(TH) - Thwing Albert

(UC) - United

(WZ) - Zwick

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

Grand Mean Sample B47: 3,919.27 psi    Grand Mean Sample B48: 4,225.92 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 B47			Sample B48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
4NZ1YK		10.00	-0.07	-0.02	9.99	-0.17	-0.05	IN
5C3RFP		5.20	-4.87	-1.34	5.09	-5.07	-1.54	MT
6QEASG		5.55	-4.52	-1.24	6.34	-3.81	-1.16	IN
AQXE7W	<b>M</b>	14.73	4.66	1.28	No data reported for this sample			IN
C47TKY		9.75	-0.32	-0.09	9.45	-0.71	-0.21	UC
DZGCGT		12.51	2.44	0.67	13.07	2.91	0.88	TH
FJAWTH		12.78	2.71	0.75	11.40	1.24	0.38	IN
RXYN29		8.81	-1.26	-0.35	9.12	-1.04	-0.31	IN
U152BJ		6.67	-3.41	-0.94	8.33	-1.83	-0.55	IN
UJWGUV		13.24	3.17	0.87	12.49	2.33	0.71	IM
VFJ9WD		17.16	7.09	1.95	17.06	6.90	2.09	IN
ZKJH6Y		9.11	-0.96	-0.26	9.41	-0.75	-0.23	IN

Summary Statistics			
<b>Grand Means</b>	10.071	Percent	10.159
			Percent
<b>Std Dev Btwn Labs</b>	3.633	Percent	3.300
			Percent
<b>Statistics based on 11 of 12 reporting participants</b>			

**Sample B47: LDPE & Sample B48: LDPE**

**Comments on assigned Data Flags for Test #772**

AQXE7W (M) - Laboratory did not submit data for Sample B48.

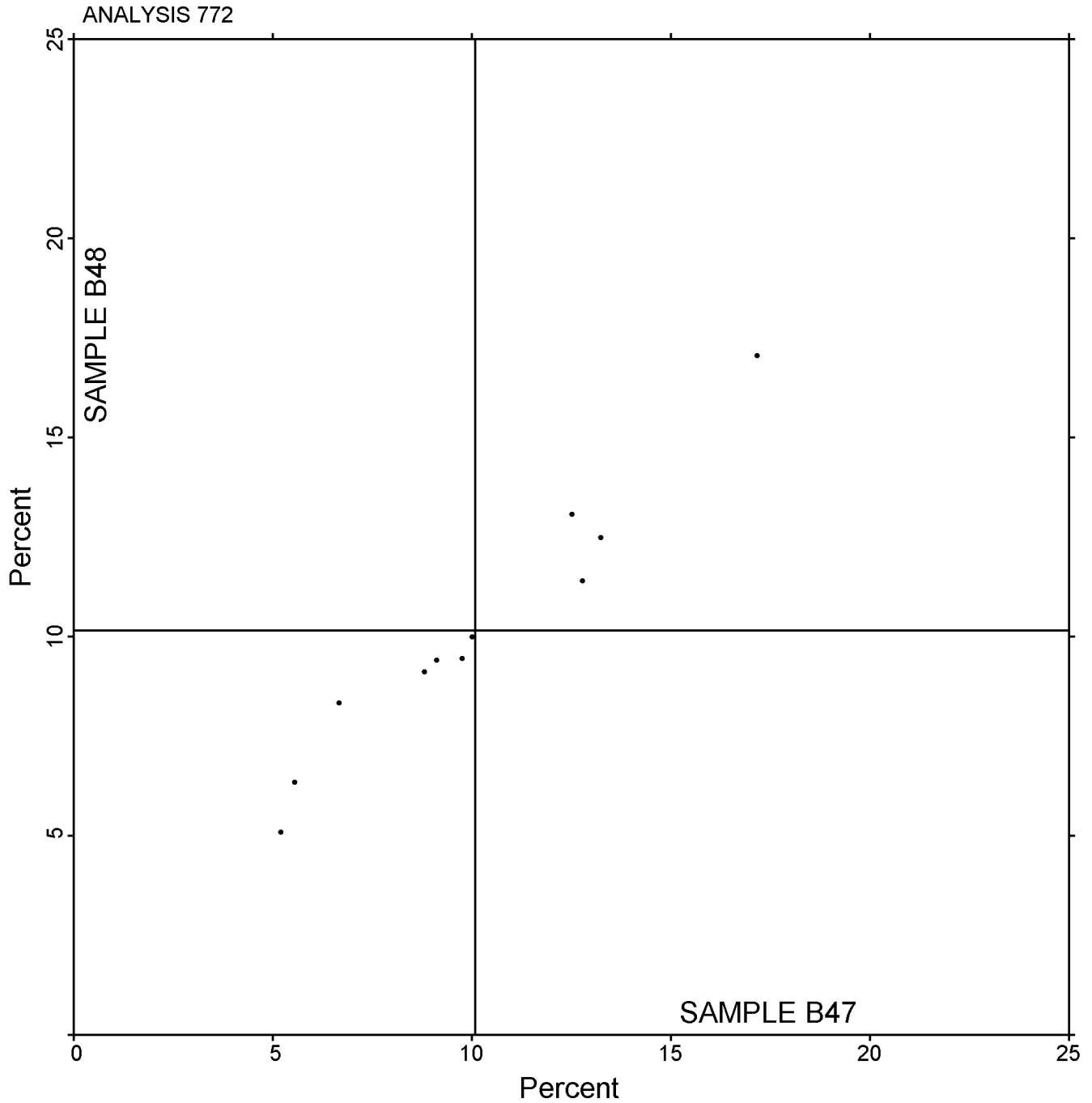
**Instrument Code List as Reported by the Labs**

(IM) - Instru-Met Instruments  
(MT) - MTS/Sintech  
(UC) - United

(IN) - Instron  
(TH) - Thwing Albert

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

Grand Mean Sample B47: 10.071 Percent    Grand Mean Sample B48: 10.159 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 B47			Sample B48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
352EN2		250.2	7.8	0.15	219.3	24.3	0.60	IN
4SMVJD	*	254.4	12.0	0.24	156.9	-38.1	-0.95	TH
65P2NU		234.5	-7.9	-0.15	187.5	-7.5	-0.19	IN
ARFJJP		244.0	1.6	0.03	193.7	-1.3	-0.03	HO
D7GT8K		145.0	-97.4	-1.90	116.9	-78.1	-1.94	SH
HTPP4W		185.5	-56.9	-1.11	179.5	-15.5	-0.39	IN
HZ8TVVD		241.4	-1.0	-0.02	189.1	-5.9	-0.15	MT
KRT1WR		245.5	3.1	0.06	210.6	15.6	0.39	UC
L2PN43		184.6	-57.8	-1.13	150.7	-44.3	-1.10	WZ
LUW8UP		186.7	-55.7	-1.09	165.1	-29.9	-0.74	IN
MCEE9M		320.0	77.6	1.52	247.6	52.6	1.30	TH
MFUJAG		241.5	-0.9	-0.02	195.9	0.9	0.02	IN
N8X4K2		326.2	83.8	1.64	258.5	63.5	1.57	IN
P7BUPD		250.8	8.4	0.16	207.2	12.2	0.30	IN
Q4JLGW		242.6	0.2	0.00	201.7	6.7	0.17	IN
V9QW7T		238.4	-4.0	-0.08	176.6	-18.4	-0.46	IM
W6LEUG		255.2	12.8	0.25	215.9	20.9	0.52	IR
XJME1T		346.3	103.9	2.03	281.3	86.3	2.14	IM
Y1RS9E		280.9	38.5	0.75	212.9	17.9	0.44	IN
YTY8EB		173.8	-68.6	-1.34	133.6	-61.4	-1.52	IN

Summary Statistics			
<b>Grand Means</b>	242.37	Percent	195.03
			Percent
<b>Std Dev Btwn Labs</b>	51.16	Percent	40.32
			Percent
<b>Statistics based on 20 of 20 reporting participants</b>			

Sample B47: LDPE & Sample B48: LDPE

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

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**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

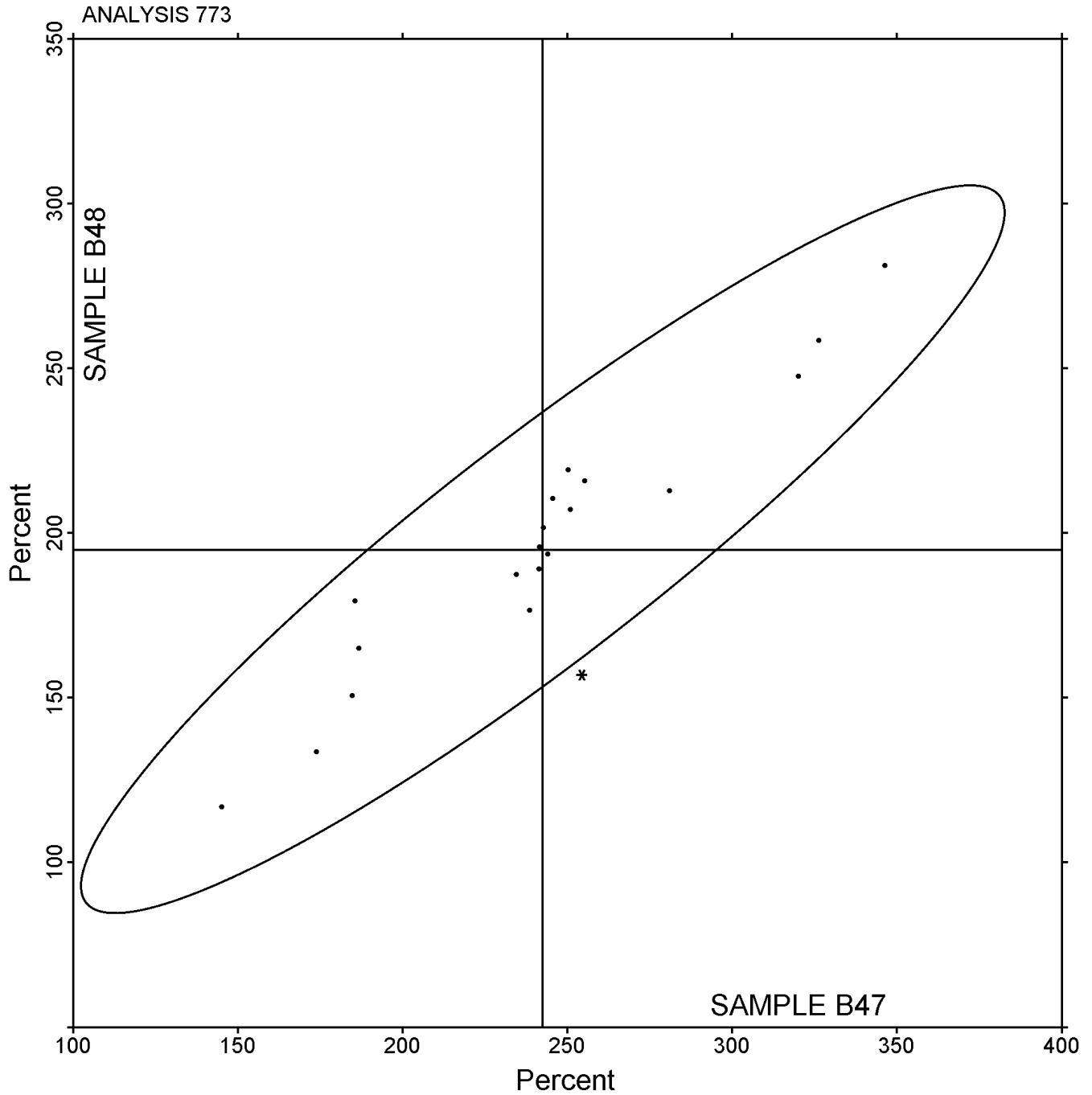
(TH) - Thwing Albert

(UC) - United

(WZ) - Zwick

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

Grand Mean Sample B47: 242.37 Percent    Grand Mean Sample B48: 195.03 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 B47			Sample B48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2ZK49J		1.4650	0.0082	0.14	1.5000	0.0126	0.21	XX
3GYZ97		1.4965	0.0396	0.67	1.5441	0.0568	0.95	XX
4GK8XK		1.4170	-0.0398	-0.68	1.4720	-0.0154	-0.26	XX
9TK52U		1.5796	0.1227	2.09	1.6174	0.1300	2.18	XX
BF3KFS		1.4600	0.0032	0.05	1.4860	-0.0014	-0.02	XX
BX7LFS		1.4700	0.0132	0.22	1.5000	0.0126	0.21	XX
D3VN25		1.4950	0.0382	0.65	1.4850	-0.0024	-0.04	XX
DD6TLY		1.4200	-0.0368	-0.63	1.4450	-0.0424	-0.71	XX
DPSE21		1.4488	-0.0080	-0.14	1.5039	0.0166	0.28	XX
ECUU52		1.5040	0.0471	0.80	1.5276	0.0402	0.68	XX
FAM3GL		1.4050	-0.0518	-0.88	1.4200	-0.0674	-1.13	XX
G9R56C		1.4900	0.0332	0.56	1.5540	0.0666	1.12	XX
JSV8DL		1.4900	0.0332	0.56	1.5350	0.0476	0.80	XX
LMEWGN		1.4360	-0.0208	-0.35	1.5080	0.0206	0.35	XX
LVBMEQ		1.4530	-0.0038	-0.07	1.4570	-0.0304	-0.51	XX
LVK9BS	*	1.2920	-0.1648	-2.80	1.3300	-0.1574	-2.64	XX
M9KR5Q		1.4000	-0.0568	-0.97	1.4100	-0.0774	-1.30	XX
N4ZKH3		1.5000	0.0432	0.73	1.5000	0.0126	0.21	XX
QPPSF5		1.5150	0.0582	0.99	1.5400	0.0526	0.88	XX
R6X5WD		1.4528	-0.0041	-0.07	1.5000	0.0126	0.21	XX
U8FLX2		1.4370	-0.0198	-0.34	1.4488	-0.0385	-0.65	XX
UCTD4W		1.5090	0.0522	0.89	1.5210	0.0336	0.57	XX
WZWGD4		1.3504	-0.1064	-1.81	1.3977	-0.0897	-1.51	XX
ZJZUR		1.4784	0.0215	0.37	1.4941	0.0068	0.11	XX

Summary Statistics	
<b>Grand Means</b>	
1.45685 mils	1.48736 mils
<b>Std Dev Btwn Labs</b>	
0.05878 mils	0.05953 mils
<b>Statistics based on 24 of 24 reporting participants</b>	

Sample B47: LDPE & Sample B48: LDPE

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

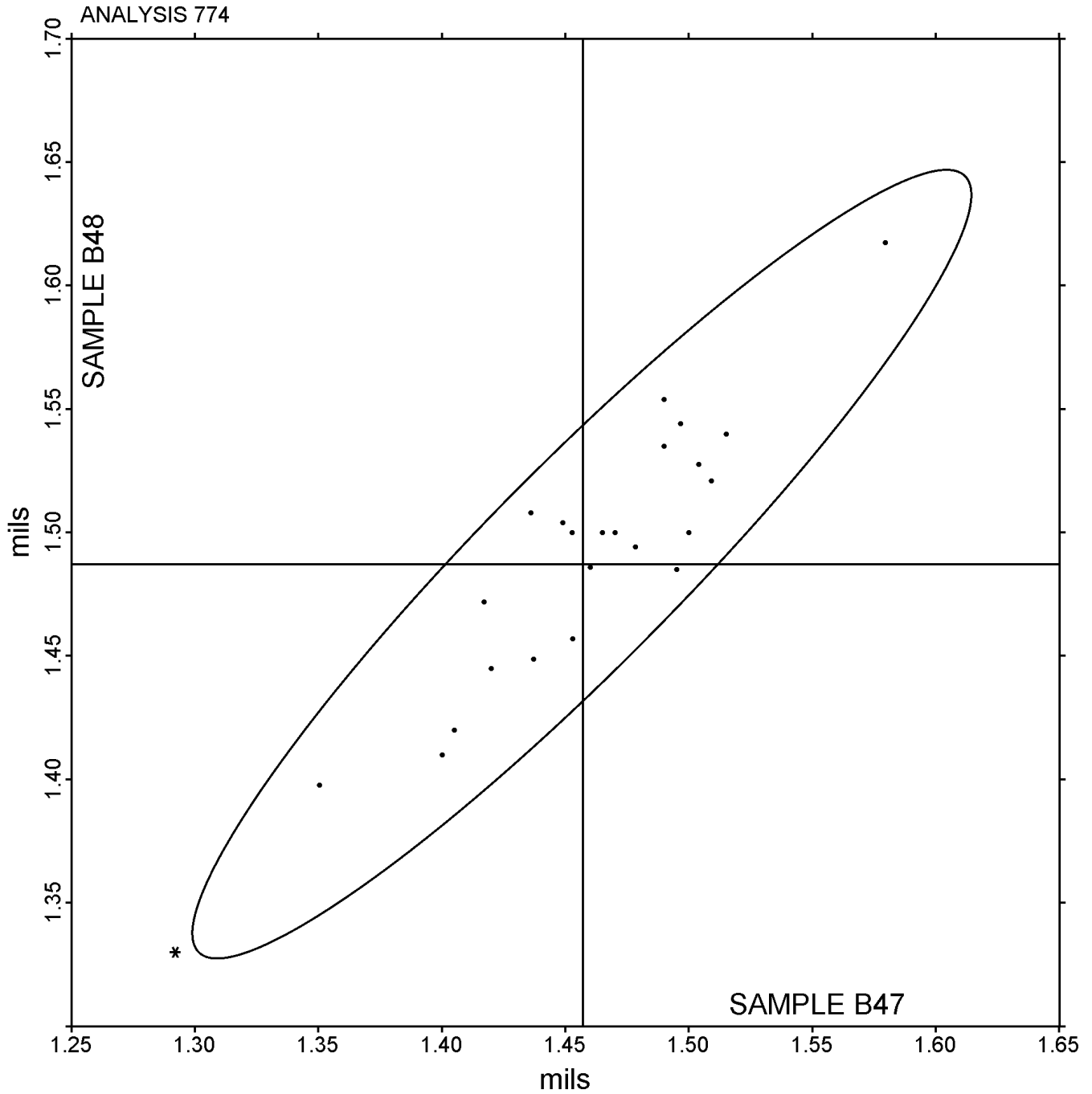
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**Instrument Code List as Reported by the Labs**

(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 B47: 1.4568 mils    Grand Mean Sample B48: 1.4874 mils



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

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

WebCode	Data Flag	Sample P47			Sample P48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3R9KSN	X	0.3116	0.1706	3.95	0.7604	0.6165	20.97	XX
4XLDRP		0.1228	-0.0182	-0.42	0.1606	0.0167	0.57	TH
5YGJBU		0.1660	0.0250	0.58	0.1340	-0.0099	-0.34	IS
6YNQSX		0.0890	-0.0520	-1.21	0.1030	-0.0409	-1.39	XX
7MLT31		0.1366	-0.0044	-0.10	0.1206	-0.0233	-0.79	TN
7VWSE4		0.1318	-0.0092	-0.21	0.1334	-0.0105	-0.36	TH
8G8VV5		0.1720	0.0310	0.72	0.1930	0.0491	1.67	UT
9MNPUH		0.1318	-0.0092	-0.21	0.1428	-0.0011	-0.04	TH
9NQVKG		0.2090	0.0680	1.58	0.1846	0.0407	1.38	TM
BHKWVX		0.2344	0.0934	2.16	0.2032	0.0593	2.02	TN
GZGFVF		0.1388	-0.0022	-0.05	0.1390	-0.0049	-0.17	MS
MLCZJS		0.1312	-0.0098	-0.23	0.1372	-0.0067	-0.23	TN
N6ENQ2		0.0670	-0.0740	-1.72	0.1120	-0.0319	-1.09	KA
PYX6TT		0.0984	-0.0426	-0.99	0.1236	-0.0203	-0.69	TH
SZHVQA		0.1276	-0.0134	-0.31	0.1264	-0.0175	-0.60	TH
TBNJT5		0.1592	0.0182	0.42	0.1458	0.0019	0.06	SA

Grand Means		Summary Statistics	
0.14104	COF	0.14395	COF
Std Dev Btwn Labs		0.02939 COF	
0.04314	COF		
<b>Statistics based on 15 of 16 reporting participants</b>			

Sample P47: LDPE & Sample P48: LDPE

**Comments on assigned Data Flags for Test #780**

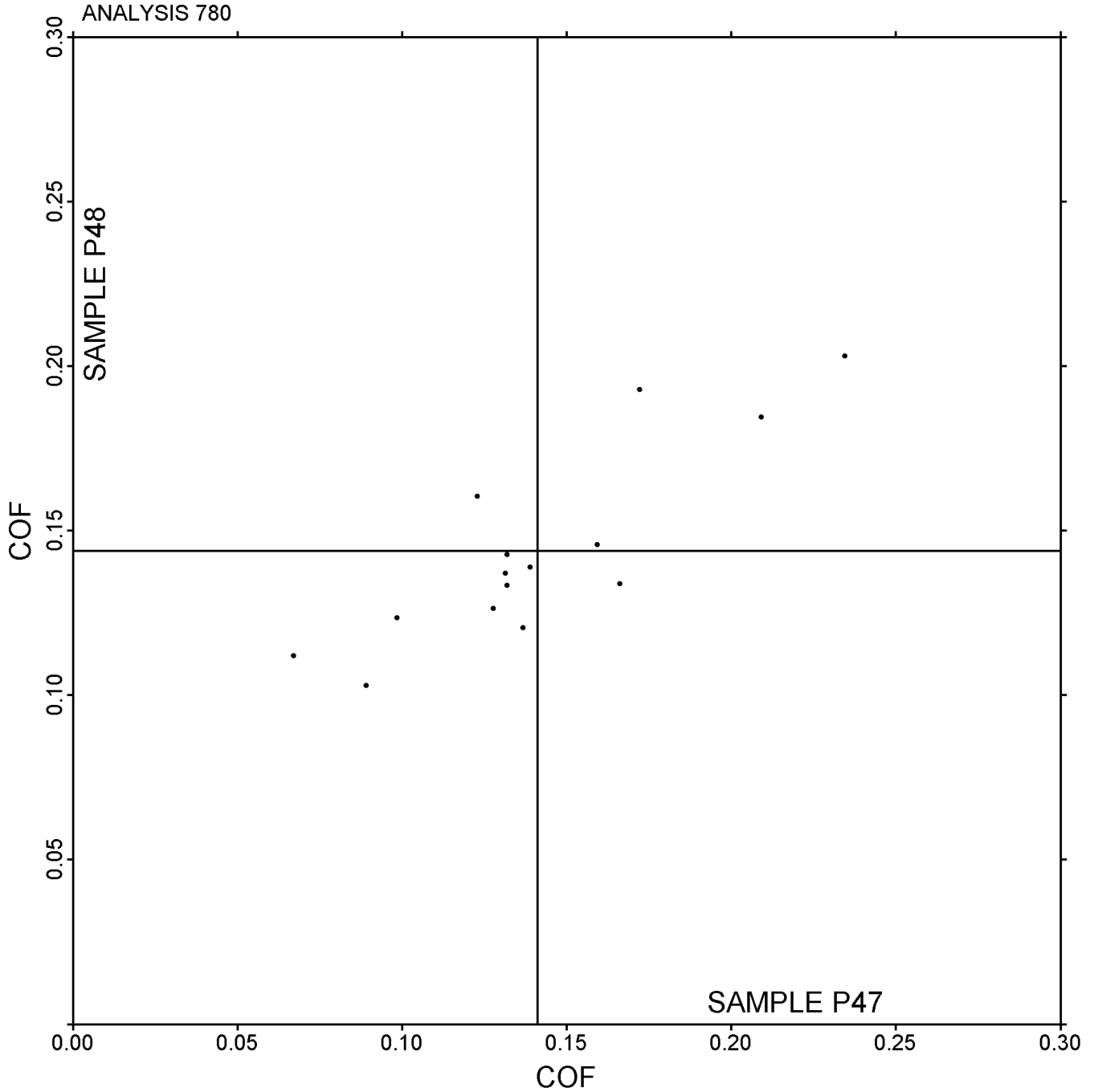
3R9KSN (X) - Extreme data.

**Instrument Code List as Reported by the Labs**

- |   |   |
|---|---|
| (IS) - Instron Model 5565                             | (KA) - Kayeness Inc.                                |
| (MS) - MTS Sintech                                    | (SA) - Shimadzu Autograph AG 2000 A                 |
| (TH) - Thwing Albert Friction/Peel Tester Model 225-1 | (TM) - TMI Slip and Friction Tester Model 98        |
| (TN) - TMI #32-06                                     | (UT) - United Testing Systems (model not specified) |
| (XX) - Instrument make/model not specified by lab     |   |

Plastics Interlaboratory Testing Program  
Analysis 780  
Coefficient of Static Friction

Grand Mean Sample P47: 0.14104 COF    Grand Mean Sample P48: 0.14395 COF



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

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

WebCode	Data Flag	Sample P47			Sample P48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
11VLYT		0.0652	-0.0395	-1.05	0.0688	-0.0354	-1.06	TH
45CN51		0.0774	-0.0273	-0.73	0.0912	-0.0130	-0.39	XX
4HER7L		0.1500	0.0453	1.21	0.1700	0.0658	1.97	TM
8MG8V4		0.0962	-0.0085	-0.23	0.0808	-0.0234	-0.70	TH
H2XMR9	X	0.7604	0.6557	17.45	1.5276	1.4234	42.66	XX
H466LG		0.1330	0.0283	0.75	0.0874	-0.0168	-0.50	SA
JEFBZG		0.1100	0.0053	0.14	0.0980	-0.0062	-0.18	IS
KVDD1M		0.1932	0.0885	2.36	0.1600	0.0558	1.67	TN
L14YS9		0.0666	-0.0381	-1.01	0.1036	-0.0006	-0.02	TH
MZWXTT		0.1422	0.0375	1.00	0.1544	0.0502	1.51	UT
Q8W2DE		0.0742	-0.0305	-0.81	0.0814	-0.0228	-0.68	TH
U3Q9ZK		0.1052	0.0005	0.01	0.1154	0.0112	0.34	TN
UM75ZC		0.0918	-0.0129	-0.34	0.0898	-0.0144	-0.43	TN
VFF8J3		0.0884	-0.0163	-0.43	0.0728	-0.0314	-0.94	MS
WMJGVP		0.0724	-0.0323	-0.86	0.0846	-0.0196	-0.59	TH

Summary Statistics	
<b>Grand Means</b>	
0.10470 COF	0.10416 COF
<b>Std Dev Btwn Labs</b>	
0.03758 COF	0.03337 COF
<b>Statistics based on 14 of 15 reporting participants</b>	

Sample P47: LDPE & Sample P48: LDPE

**Comments on assigned Data Flags for Test #781**

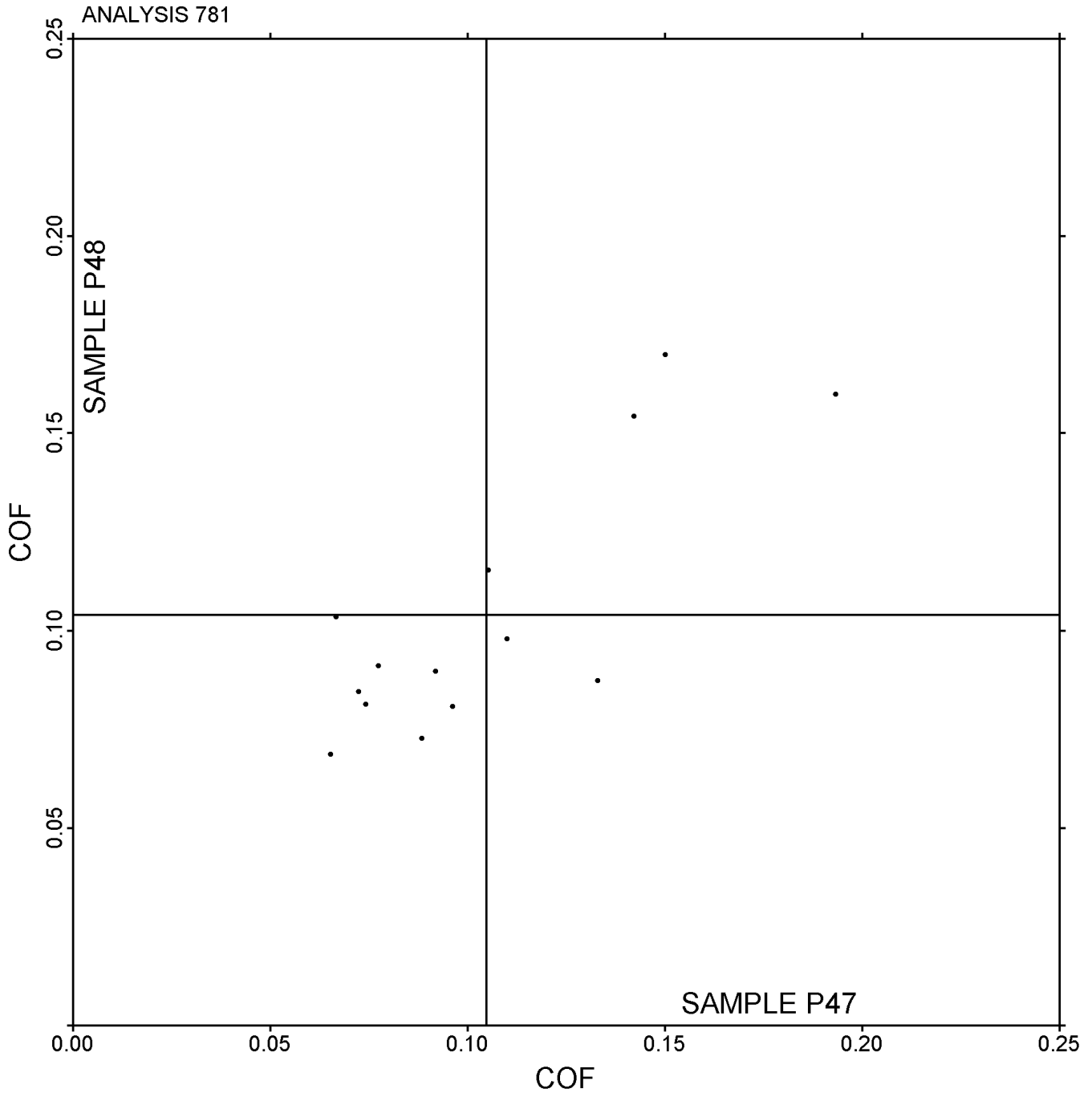
H2XMR9 (X) - Extreme data.

**Instrument Code List as Reported by the Labs**

- |   |   |
|---|---|
| (IS) - Instron Model 5565                           | (MS) - MTS Sintech                                    |
| (SA) - Shimadzu Autograph AG 2000 A                 | (TH) - Thwing Albert Friction/Peel Tester Model 225-1 |
| (TM) - TMI Slip and Friction Tester Model 98        | (TN) - TMI #32-06                                     |
| (UT) - United Testing Systems (model not specified) | (XX) - Instrument make/model not specified by lab     |

Plastics Interlaboratory Testing Program  
Analysis 781  
Coefficient of Kinetic Friction

Grand Mean Sample P47: 0.10470 COF    Grand Mean Sample P48: 0.10416 COF



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

**Plastics Interlaboratory Testing Program**  
**Analysis 782**  
**Tear Resistance of Films**

WebCode	Data Flag	Sample Q47			Sample Q48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
1TD9KS		339.8	-173.5	-2.19	581.9	-63.3	-0.72	TE
A68VUT		429.0	-84.3	-1.06	618.0	-27.2	-0.31	HB
CEP3UM		553.2	39.9	0.50	738.1	92.9	1.05	TE
DC2NCQ		550.4	37.1	0.47	698.9	53.7	0.61	TF
HXQ1DW		516.8	3.5	0.04	485.6	-159.6	-1.80	TH
LETEWF		558.4	45.1	0.57	730.1	84.9	0.96	LO
S8K1ZX		562.3	49.0	0.62	702.4	57.2	0.65	TM
YKX7HT		522.1	8.8	0.11	556.3	-88.9	-1.00	SZ
YYMGTK		588.0	74.7	0.94	695.3	50.1	0.57	AL

**Summary Statistics**

**Grand Means**

513.34 grams-force

645.17 grams-force

**Std Dev Btwn Labs**

79.28 grams-force

88.48 grams-force

**Statistics based on 9 of 9 reporting participants**

**Sample Q47: LDPE & Sample Q48: LDPE**

**Instrument Code List as Reported by the Labs**

(AL) - Adamel Lhomargy ED20

(HB) - Henry Baer & Co. (model not specified)

(LO) - Lorentzen & Wettre Model II

(SZ) - Textest FX 3700

(TE) - Thwing-Albert Pro Tear

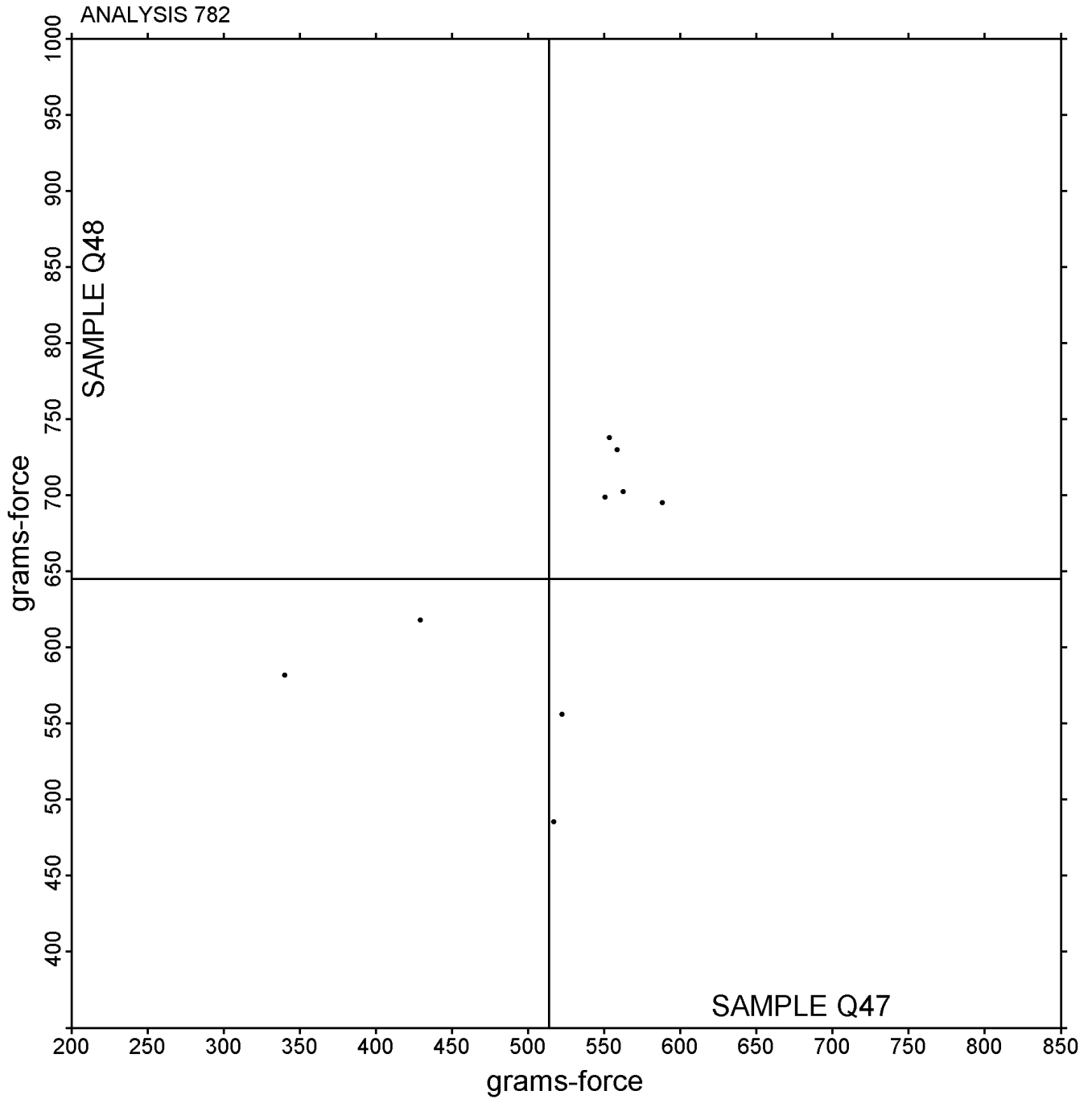
(TF) - Thwing-Albert Model 60-1500

(TH) - Thwing-Albert Model 60-16

(TM) - TMI No. 83-1100

Plastics Interlaboratory Testing Program  
Analysis 782  
Tear Resistance of Films

Grand Mean Sample Q47: 513.34 grams-force    Grand Mean Sample Q48: 645.17 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 D47			Sample D48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
3E27U7		5.700	0.543	0.93	8.775	0.383	0.65	BH
67C8WC		4.768	-0.390	-0.67	8.804	0.412	0.70	BJ
6A2S8Z		5.460	0.303	0.52	8.218	-0.174	-0.30	HC
79WELD		4.959	-0.199	-0.34	9.260	0.868	1.48	BJ
BT9JA4		5.733	0.575	0.99	8.506	0.115	0.20	HL
CNPTYG		4.818	-0.340	-0.58	8.345	-0.047	-0.08	XX
CVXXL5		4.458	-0.700	-1.20	7.166	-1.225	-2.09	BJ
FXUA44		4.476	-0.681	-1.17	8.641	0.250	0.43	BJ
J6TAPF		4.036	-1.121	-1.92	7.849	-0.543	-0.93	BJ
JDV5FL		5.414	0.256	0.44	7.525	-0.867	-1.48	BJ
KB1HYV		5.143	-0.015	-0.03	8.315	-0.077	-0.13	BJ
L4RRRG		5.615	0.458	0.78	7.801	-0.590	-1.01	BG
LFUQ7X		4.633	-0.525	-0.90	7.709	-0.683	-1.16	BJ
QN91B8	X	8.455	3.298	5.65	4.820	-3.572	-6.09	BJ
RPB1AY		4.730	-0.428	-0.73	8.779	0.387	0.66	BJ
T9E7DN		4.825	-0.333	-0.57	7.999	-0.393	-0.67	BJ
XQUFJD		5.488	0.330	0.57	8.600	0.208	0.35	BH
Y6L1X1		5.865	0.708	1.21	9.008	0.616	1.05	BJ
YU6H6A		5.606	0.449	0.77	9.069	0.677	1.15	BJ
ZBLTCN		6.269	1.111	1.91	9.075	0.683	1.16	BT

Summary Statistics			
<b>Grand Means</b>	5.1575	Percent	8.3917
			Percent
<b>Std Dev Btwn Labs</b>	0.5833	Percent	0.5869
			Percent
<b>Statistics based on 19 of 20 reporting participants</b>			

Sample D47: PVC & Sample D48: PVC

**Comments on assigned Data Flags for Test #785**

QN91B8 (X) - High data for Sample D47. Low data for Sample D48.

**Plastics Interlaboratory Testing Program**  
**Analysis 785**  
**Percent Haze of Film**

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**Instrument Code List as Reported by the Labs**

(BG) - BYK-Gardner/Pacific Scientific

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

(BJ) - BYK-Gardner Haze-Gard Plus

(BT) - BYK Gardner TCS Plus Spectrophotometer

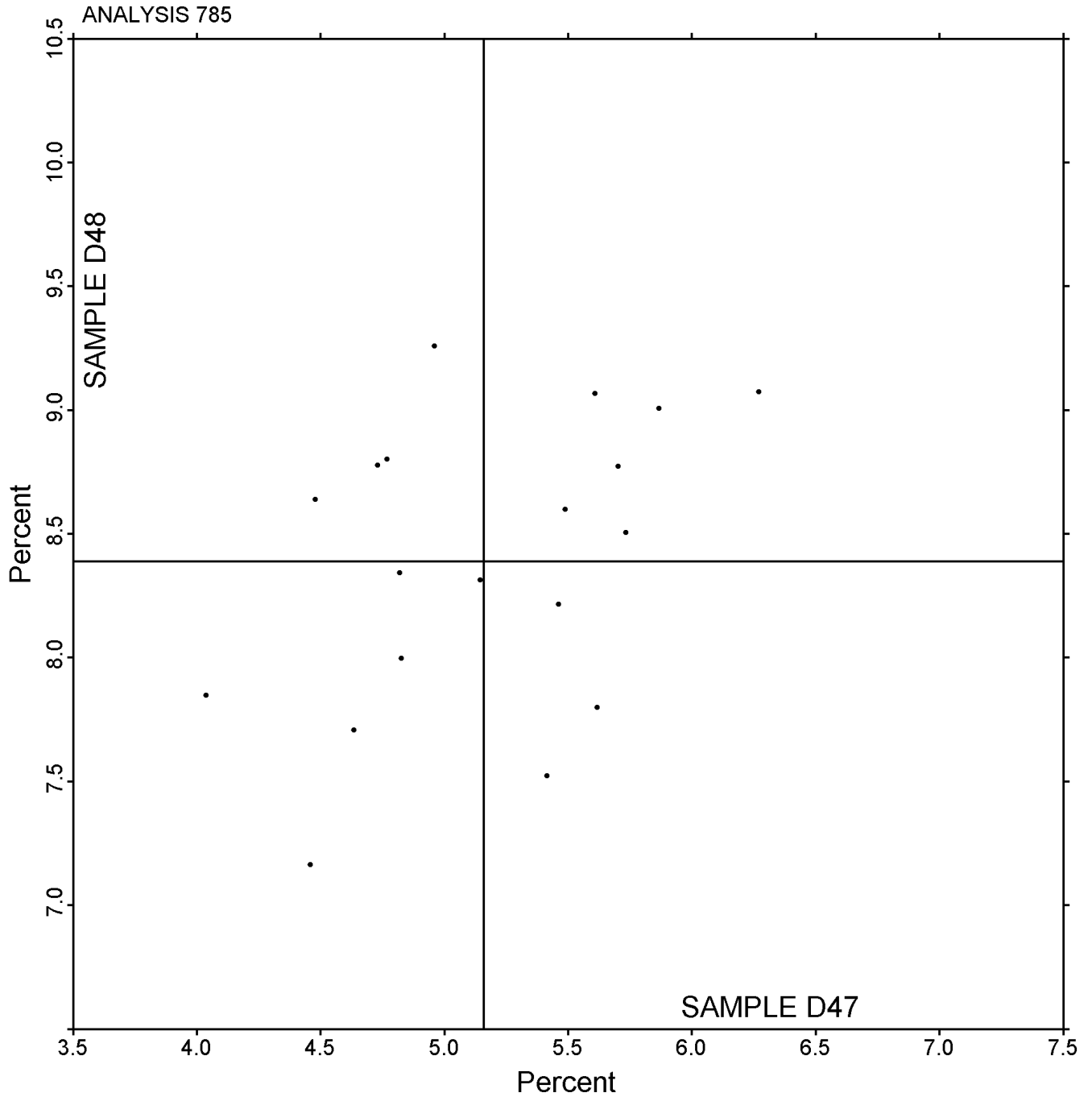
(HC) - Hunterlab ColorQuest

(HL) - Hunterlab Ultrascan XE

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

Plastics Interlaboratory Testing Program  
Analysis 785  
Percent Haze of Film

Grand Mean Sample D47: 5.1575 Percent    Grand Mean Sample D48: 8.3917 Percent



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

**Plastics Interlaboratory Testing Program  
Analysis 786**

**Total Luminous transmittance of film**

WebCode	Data Flag	Sample D47			Sample D48			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
14T5MK		94.01	0.80	1.01	93.99	0.69	0.82	BJ
16CCBL		92.44	-0.78	-0.98	92.44	-0.86	-1.00	BJ
1GDT7F		94.15	0.94	1.18	94.25	0.96	1.12	BJ
8G64WR	X	63.60	-29.61	-37.40	74.51	-18.78	-22.04	BJ
8KDUBA		93.93	0.71	0.90	94.39	1.09	1.28	BJ
9KV9BX		94.29	1.07	1.36	94.48	1.18	1.39	HC
9S9ABW		93.78	0.56	0.71	93.85	0.56	0.65	BJ
AH98DR		94.00	0.79	0.99	94.25	0.96	1.12	BJ
LMVEH3		92.91	-0.30	-0.38	93.19	-0.11	-0.12	BT
M5UG21		93.09	-0.13	-0.16	93.13	-0.17	-0.20	BJ
NTVM59		91.71	-1.50	-1.90	91.96	-1.33	-1.56	BJ
NUFLY8		93.53	0.31	0.39	93.63	0.33	0.39	XX
PEK3PS		91.84	-1.37	-1.74	91.78	-1.51	-1.77	HL
UE778F		92.79	-0.43	-0.54	92.79	-0.51	-0.59	BJ
W4C2U7		93.09	-0.13	-0.16	92.73	-0.57	-0.67	BG
WGUVAF		93.03	-0.19	-0.24	92.95	-0.34	-0.40	BH
WNPYLD		93.61	0.40	0.50	93.69	0.39	0.46	BJ
YM9D7M		92.45	-0.76	-0.96	92.51	-0.78	-0.92	BJ

Summary Statistics			
<b>Grand Means</b>	93.213	Percent	93.293
			Percent
<b>Std Dev Btwn Labs</b>	0.792	Percent	0.852
			Percent
<b>Statistics based on 17 of 18 reporting participants</b>			

Sample D47: PVC & Sample D48: PVC

**Comments on assigned Data Flags for Test #786**

8G64WR (X) - Extreme data.

**Total Luminous transmittance of film**

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**Instrument Code List as Reported by the Labs**

(BG) - BYK-Gardner/Pacific Scientific

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

(BJ) - BYK-Gardner Haze-Gard Plus

(BT) - BYK Gardner TCS Plus Spectrophotometer

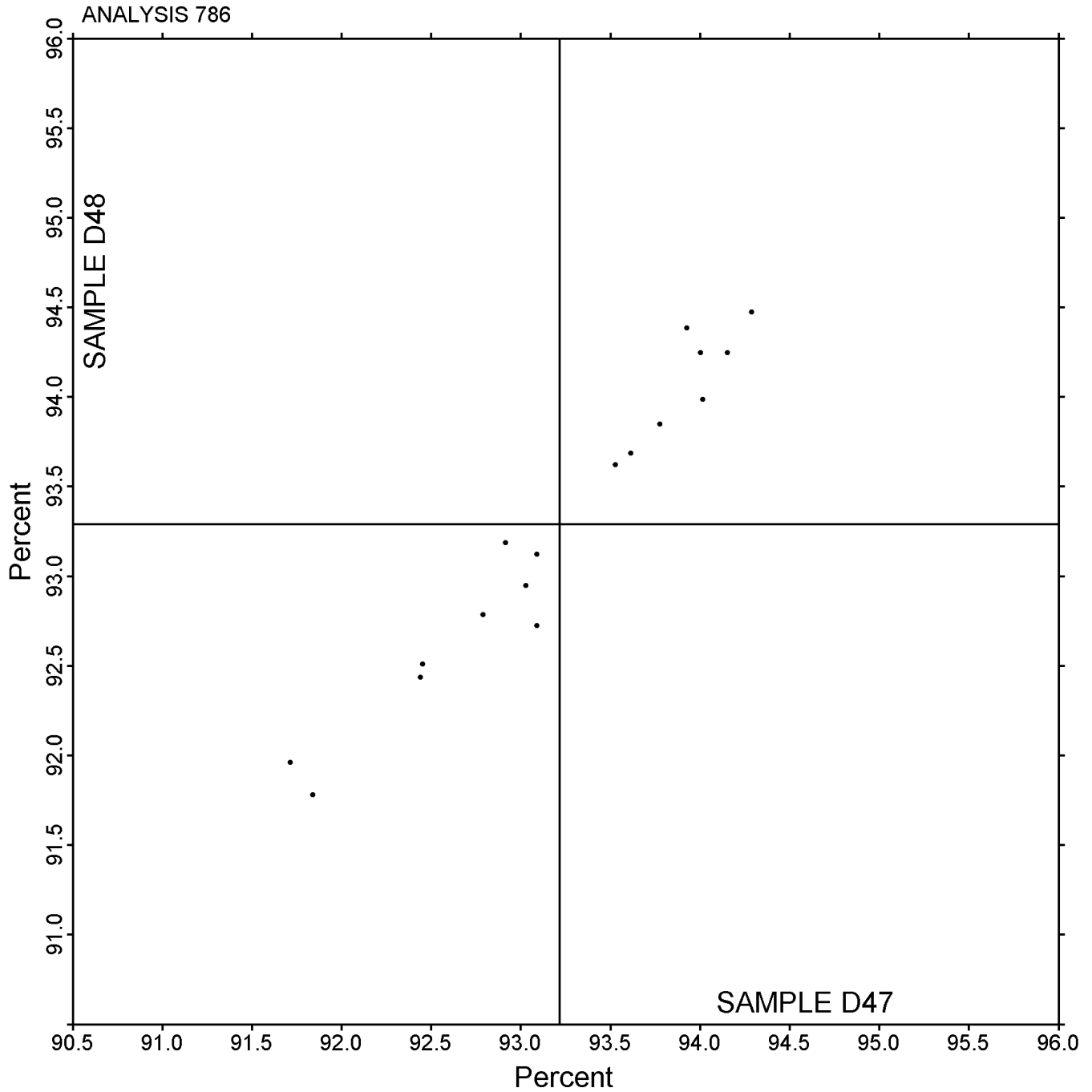
(HC) - Hunterlab ColorQuest

(HL) - Hunterlab Ultrascan XE

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

Plastics Interlaboratory Testing Program  
Analysis 786  
Total Luminous transmittance of film

Grand Mean Sample D47: 93.213 Percent Grand Mean Sample D48: 93.293 Percent



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