

Plastics Interlaboratory Testing Program

Web Summary Report #138, 2nd Qtr 2026

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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, agriculture, 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 100 countries currently participate in CTS programs.

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

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

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

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Key for Web Summary Report (Page 1 of 2)

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

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

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

Common Problems Highlighted in Footnotes

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

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



Plastics Interlaboratory Testing Program

Results Summary for Report #138, 2nd Qtr 2026

Analysis 704 - Tensile Stress at Yield

Material: ABS	Sample F17	6,633.42	psi	1.93% COV
	Sample F18	6,630.65	psi	1.83% COV

Analysis 705 - Tensile Stress at Break

Material: ABS	Sample F17	5,101.53	psi	2.98% COV
	Sample F18	5,091.86	psi	2.66% COV

Analysis 706 - Percent Elongation at Yield

Material: ABS	Sample F17	2.4088	Percent	2.78% COV
	Sample F18	2.4162	Percent	2.55% COV

Analysis 708 - Modulus of Elasticity

Material: ABS	Sample F17	348.24	ksi	4.06% COV
	Sample F18	348.35	ksi	4.16% COV

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

Material: HIPS	Sample E17	79.523	Degrees C	0.835% COV
	Sample E18	79.493	Degrees C	0.795% COV

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

Material: PP	Sample G17	110.19	Degrees C	2.47% COV
	Sample G18	110.66	Degrees C	2.14% COV

Analysis 712 - Temperature of Deflection (1.80 MPa)

Material: ABS/PC	Sample N17	104.39	Degrees C	1.87% COV
	Sample N18	104.52	Degrees C	1.90% COV

Analysis 715 - Vicat Temperature (Rate A)

Material: HIPS	Sample H17	96.046	Degrees C	0.663% COV
	Sample H18	96.062	Degrees C	0.647% COV

Analysis 716 - Vicat Temperature (Rate B)

Material: HIPS	Sample R17	97.940	Degrees C	1.31% COV
	Sample R18	97.972	Degrees C	1.33% COV

Analysis 718 - Specific Gravity

Material: ABS	Sample T17	1.0419	sp gr 23/23 C	0.190% COV
	Sample T18	1.0419	sp gr 23/23 C	0.205% COV

Analysis 720 - Flexural Modulus

Material: ABS	Sample J17	347.53	ksi	4.54% COV
	Sample J18	346.63	ksi	4.81% COV

Analysis 721 - Flexural Stress at 5% Strain

Material: ABS	Sample J17	9,590.50	psi	3.14% COV
	Sample J18	9,587.06	psi	3.28% COV

Analysis 722 - Flexural Stress at Yield

Material: ABS	Sample J17	9,654.05	psi	4.30% COV
	Sample J18	9,649.28	psi	4.37% COV

Analysis 730 - Tensile Stress at Yield, ISO Method

Material: ABS	Sample C17	42.456	MPa	1.83% COV
	Sample C18	42.530	MPa	1.99% COV

Analysis 731 - Tensile Stress at Break, ISO Method

Material: ABS	Sample C17	31.662	MPa	5.09% COV
	Sample C18	31.503	MPa	5.23% COV



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Analysis 732 - Strain at Yield, ISO Method

Material: ABS	Sample C17	2.3205	Percent	6.39% COV
	Sample C18	2.3315	Percent	6.38% COV

Analysis 734 - Modulus of Elasticity, ISO Method

Material: ABS	Sample C17	2,303.30	MPa	3.68% COV
	Sample C18	2,296.46	MPa	3.51% COV

Analysis 736 - Flexural Modulus

Material: ABS	Sample K17	2,329.88	MPa	5.19% COV
	Sample K18	2,328.39	MPa	5.13% COV

Analysis 737 - Flexural Stress at 3.5% Strain

Material: ABS	Sample K17	63.881	MPa	2.40% COV
	Sample K18	63.936	MPa	2.62% COV

Analysis 738 - Flexural Stress at Yield

Material: ABS	Sample K17	64.686	MPa	1.94% COV
	Sample K18	64.760	MPa	2.13% COV

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

Material: PP	Sample X17	12.274	grams/10 mins	4.37% COV
	Sample X18	12.321	grams/10 mins	4.87% COV

Analysis 755 - Moisture Content

Material: ABS	Sample Y17	0.13253	Percent	17.2% COV
	Sample Y18	0.13412	Percent	18.5% COV

Analysis 757 - Ash Content

Material: PBT	Sample L17	29.706	Percent	0.294% COV
	Sample L18	29.716	Percent	0.294% COV

Analysis 758 - TGA

Material: PP	Sample A17	79.193	Percent	0.740% COV
	Sample A18	79.287	Percent	0.623% COV

Analysis 760 - DSC Crystallization Temperature

Material: PBT	Sample W17	175.77	Degrees Celsius	2.88% COV
	Sample W18	175.71	Degrees Celsius	2.86% COV

Analysis 761 - DSC Melt Temperature

Material: PBT	Sample W17	223.12	Degrees Celsius	0.682% COV
	Sample W18	223.14	Degrees Celsius	0.744% COV

Analysis 762 - DSC Enthalpy of Crystallization

Material: PBT	Sample W17	48.682	Joules Per Gram	8.87% COV
	Sample W18	48.087	Joules Per Gram	8.15% COV

Analysis 763 - DSC Enthalpy of Fusion

Material: PBT	Sample W17	44.082	Joules Per Gram	12.1% COV
	Sample W18	43.610	Joules Per Gram	12.2% COV

Analysis 764 - DSC Glass Transition Temperature

Material: PET	Sample V17	81.452	Degrees Celsius	2.10% COV
	Sample V18	81.321	Degrees Celsius	1.83% COV

Analysis 765 - Research Crystallization Peak Temperature

Material: PBT	Sample W17	175.41	Degrees Celsius	2.86% COV
	Sample W18	174.76	Degrees Celsius	2.63% COV



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Analysis 766 - Research Melting Peak Temperature

Material: PBT	Sample W17	223.42	Degrees Celsius	0.634% COV
	Sample W18	223.59	Degrees Celsius	0.751% COV

Analysis 767 - Research Heat of Crystallization

Material: PBT	Sample W17	48.438	Joules Per Gram	5.17% COV
	Sample W18	47.731	Joules Per Gram	6.64% COV

Analysis 768 - Research Heat of Fusion

Material: PBT	Sample W17	44.922	Joules Per Gram	12.9% COV
	Sample W18	44.555	Joules Per Gram	14.8% COV

Analysis 769 - Research Glass Transition Temperature

Material: PET	Sample V17	81.957	Degrees Celsius	1.36% COV
	Sample V18	81.924	Degrees Celsius	1.34% COV

Analysis 770 - Tensile Stress at Yield, Films

Material: LDPE	Sample B17	1,824.11	psi	8.01% COV
	Sample B18	1,818.45	psi	8.43% COV

Analysis 771 - Tensile Stress at Break, Films

Material: LDPE	Sample B17	4,228.87	psi	31.0% COV
	Sample B18	4,233.09	psi	30.3% COV

Analysis 772 - Elongation at Yield, Films

Material: LDPE	Sample B17	56.630	Percent	36.8% COV
	Sample B18	52.931	Percent	37.0% COV

Analysis 773 - Elongation at Break, Films

Material: LDPE	Sample B17	722.52	Percent	23.7% COV
	Sample B18	748.65	Percent	23.9% COV

Analysis 774 - Thickness of Film Specimens

Material: LDPE	Sample B17	2.7194	mils	6.52% COV
	Sample B18	2.9400	mils	5.88% COV

Analysis 775 - Secant Modulus at 1% Strain

Material: LDPE	Sample B17	40,600.13	psi	9.59% COV
	Sample B18	40,004.27	psi	8.25% COV

Analysis 776 - Secant Modulus at 2% Strain

Material: LDPE	Sample B17	33,250.26	psi	9.50% COV
	Sample B18	32,166.19	psi	9.53% COV

Analysis 780 - Static Friction

Material: LDPE	Sample P17	0.15563	COF	30.4% COV
	Sample P18	0.18660	COF	25.4% COV

Analysis 781 - Kinetic Friction

Material: LDPE	Sample P17	0.09731	COF	27.3% COV
	Sample P18	0.12811	COF	29.7% COV

Analysis 782 - Tear Resistance of Film

Material: LDPE	Sample Q17	643.84	grams-force	16.2% COV
	Sample Q18	693.96	grams-force	14.1% COV

Analysis 785 - Percent Haze

Material: LDPE	Sample D17	20.711	Percent	5.98% COV
	Sample D18	20.986	Percent	6.87% COV



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Results Summary for Report #138, 2nd Qtr 2026

Analysis 786 - Total Transmittance

Material: LDPE	Sample D17	92.842	Percent	1.14% COV
	Sample D18	93.022	Percent	1.19% COV

Analysis 790 - Notched Izod Impact

Material: HIPS	Sample S17	1.9512	ft.lbf/in	10.8% COV
	Sample S18	1.9428	ft.lbf/in	11.4% COV

Analysis 791 - Notched Izod Impact

Material: ABS	Sample Z17	20.243	kJ/m ²	4.08% COV
	Sample Z18	20.296	kJ/m ²	3.99% COV

Analysis 792 - Notched Charpy Impact

Material: ABS	Sample M17	21.509	kJ/m ²	4.08% COV
	Sample M18	21.365	kJ/m ²	3.55% COV



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Report #138

Analysis 704

2nd Qtr 2026

Tensile Stress at Yield - psi

WebCode	Data Flag	Sample F17			Sample F18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
292CQY		6,661.8	28.4	0.22	6,694.2	63.5	0.53
2MLQUY		6,787.6	154.1	1.21	6,787.9	157.2	1.30
2MLUJ4		6,787.8	154.4	1.21	6,790.2	159.5	1.32
2RY79C		6,440.0	-193.4	-1.51	6,378.0	-252.7	-2.09
2ZTC3D		6,808.8	175.4	1.37	6,858.0	227.3	1.88
38HJXN		6,660.0	26.6	0.21	6,554.0	-76.7	-0.63
4EJVUK		6,567.4	-66.1	-0.52	6,521.0	-109.7	-0.91
4NPZJG		6,626.3	-7.1	-0.06	6,552.9	-77.7	-0.64
4XB4RF		6,886.4	253.0	1.98	6,898.2	267.5	2.21
64VGAF		6,632.6	-0.8	-0.01	6,610.3	-20.4	-0.17
7LVTEA	*	6,335.8	-297.6	-2.33	6,454.4	-176.3	-1.46
8EP63Z		6,467.0	-166.4	-1.30	6,535.8	-94.9	-0.78
92FNUB		6,668.4	34.9	0.27	6,699.8	69.2	0.57
9CEWM9		6,632.4	-1.0	-0.01	6,713.7	83.0	0.69
9YAXCG	X	2,131.5	-4,501.9	-35.20	2,138.5	-4,492.2	-37.11
ABLQV2	*	6,468.7	-164.7	-1.29	6,613.8	-16.9	-0.14
DCGCM2		6,468.8	-164.6	-1.29	6,515.7	-115.0	-0.95
DDYR7P		6,668.4	35.0	0.27	6,709.0	78.3	0.65
EYQZNW		6,720.0	86.6	0.68	6,584.0	-46.7	-0.39
JTCNYL	X	7,125.0	491.6	3.84	6,841.0	210.3	1.74
L2DUP7		6,672.5	39.1	0.31	6,633.7	3.1	0.03
LBH37Q		6,460.0	-173.4	-1.36	6,492.0	-138.7	-1.15
LDNTNK		6,480.4	-153.0	-1.20	6,410.0	-220.7	-1.82
M8X87J		6,804.4	170.9	1.34	6,857.4	226.8	1.87
MLHPYN		6,921.3	287.8	2.25	6,825.5	194.9	1.61
MNMHQ2		6,663.6	30.2	0.24	6,673.6	42.9	0.35
N26P3R		6,600.2	-33.2	-0.26	6,564.0	-66.7	-0.55
NF9GYB		6,619.8	-13.6	-0.11	6,635.2	4.5	0.04
NM9B6J		6,727.0	93.6	0.73	6,657.2	26.5	0.22
P3GLAH		6,696.4	63.0	0.49	6,683.2	52.5	0.43
PXZGBM		6,747.1	113.7	0.89	6,662.6	32.0	0.26
Q787GB		6,591.2	-42.3	-0.33	6,586.8	-43.8	-0.36
QFCPPT		6,620.0	-13.4	-0.10	6,609.8	-20.9	-0.17
QHKH42		6,567.0	-66.4	-0.52	6,543.8	-86.8	-0.72
QKRZ3W	*	6,262.3	-371.1	-2.90	6,316.1	-314.5	-2.60



Plastics Interlaboratory Testing Program

Report #138

Analysis 704

2nd Qtr 2026

Tensile Stress at Yield - psi

WebCode	Data Flag	Sample F17			Sample F18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
T4FYJE		6,780.6	147.2	1.15	6,771.9	141.2	1.17
TA646A	X	6,562.4	-71.0	-0.55	6,072.8	-557.9	-4.61
TG7VJR		6,549.3	-84.1	-0.66	6,634.5	3.8	0.03
TJME4L		6,728.0	94.6	0.74	6,740.2	109.5	0.91
TTGTFL		6,673.4	40.0	0.31	6,692.4	61.7	0.51
UADAQV		6,683.1	49.7	0.39	6,683.9	53.2	0.44
UAHRNU		6,660.2	26.8	0.21	6,617.2	-13.5	-0.11
UVZ8L8		6,651.6	18.2	0.14	6,568.2	-62.5	-0.52
VJM2VK		6,659.8	26.4	0.21	6,591.4	-39.3	-0.32
VRYJH6		6,682.8	49.4	0.39	6,689.6	58.9	0.49
VWPTR4		6,534.3	-99.1	-0.78	6,485.8	-144.9	-1.20
WK93ED	X	7,430.4	797.0	6.23	7,403.8	773.1	6.39
WNAWZ2		6,706.0	72.6	0.57	6,672.0	41.3	0.34
X2FGCL		6,600.6	-32.8	-0.26	6,596.7	-34.0	-0.28
X2RF3P		6,572.5	-60.9	-0.48	6,633.8	3.1	0.03
X43NJG		6,782.0	148.6	1.16	6,804.0	173.3	1.43
X6RQYP		6,590.8	-42.6	-0.33	6,595.8	-34.9	-0.29
X78QHE		6,578.8	-54.6	-0.43	6,551.8	-78.9	-0.65
XMWYDQ		6,493.0	-140.4	-1.10	6,550.6	-80.1	-0.66
ZWYVGK		6,656.1	22.7	0.18	6,661.6	31.0	0.26
ZZUMKB	X	6,441.4	-192.0	-1.50	6,652.2	21.5	0.18

Summary Statistics		
	Sample F17	Sample F18
Grand Means	6,633.42 psi	6,630.65 psi
Std Dev Btwn Labs	127.91 psi	121.05 psi
Statistics based on 51 of 56 reporting participants		

Sample F17: ABS & Sample F18: ABS

Comments on Assigned Data Flags for Test #704

- TA646A (X) - Data for sample F18 are low.
- 9YAXCG (X) - Extreme data.
- WK93ED (X) - Data for both samples are high. Possible Systematic Error.
- ZZUMKB (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample F17.
- JTCNYL (X) - Data for sample F17 are high. Inconsistent within the determinations of sample F17.



Plastics Interlaboratory Testing Program

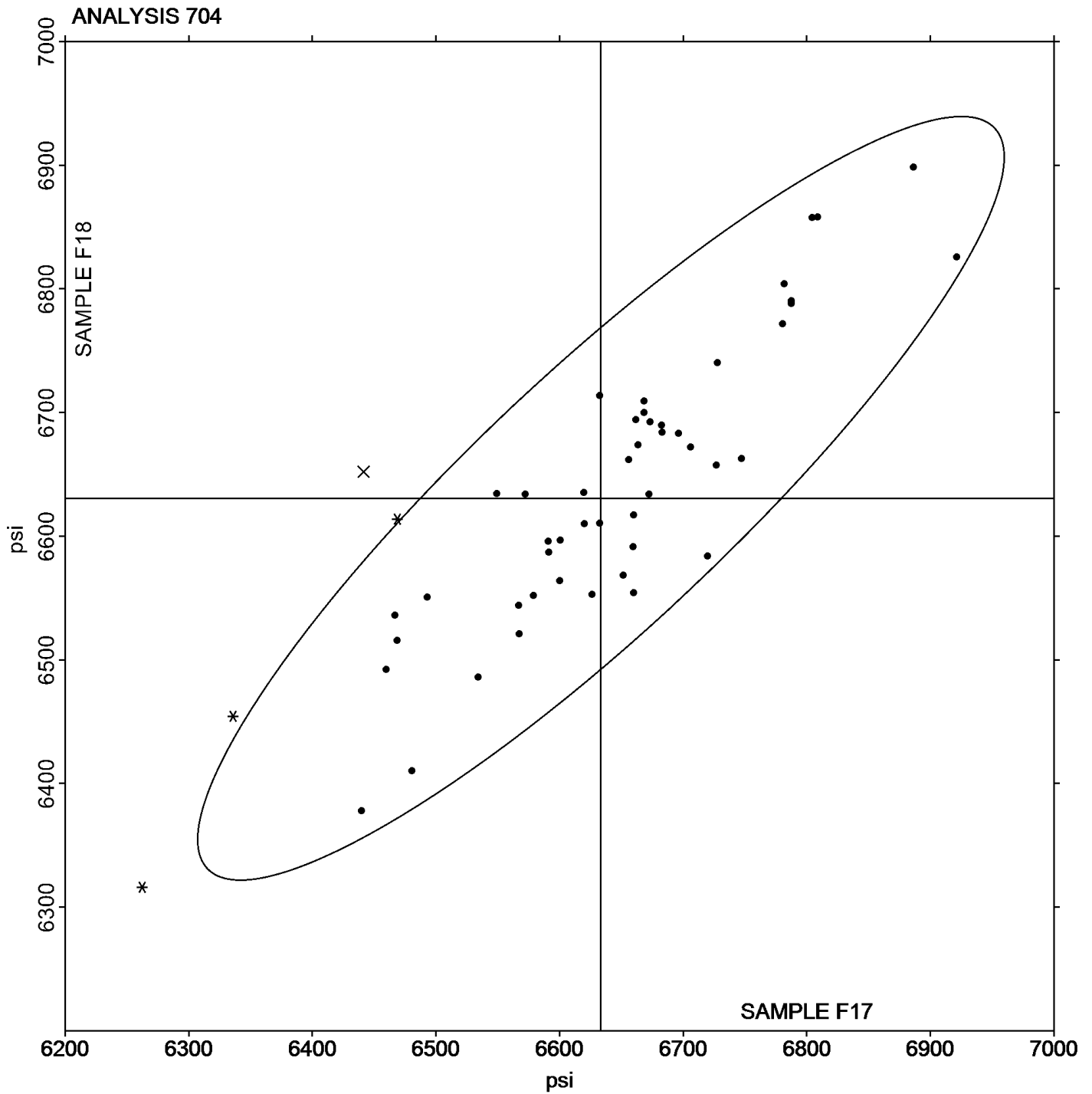
Analysis 704

Tensile Stress at Yield - psi

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Grand Mean Sample F17: 6,633.42 psi Grand Mean Sample F18: 6,630.65 psi





Plastics Interlaboratory Testing Program

Report #138

Analysis 705

2nd Qtr 2026

Tensile Stress at Break - psi

WebCode	Data Flag	Sample F17			Sample F18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
292CQY		5,108.8	7.3	0.05	5,165.2	73.3	0.54
2MLUJ4		5,226.0	124.5	0.82	5,134.2	42.3	0.31
2RY79C		4,888.0	-213.5	-1.40	4,890.0	-201.9	-1.49
2ZTC3D	*	5,504.8	403.3	2.65	5,328.6	236.7	1.75
38HJXN	X	6,280.0	1,178.5	7.75	5,426.0	334.1	2.47
4EJVUK		5,262.0	160.5	1.06	5,166.3	74.4	0.55
4NPZJG		5,179.8	78.3	0.51	5,122.9	31.0	0.23
4XB4RF		5,288.0	186.5	1.23	5,329.4	237.5	1.76
64VGAF		4,957.4	-144.1	-0.95	4,884.9	-207.0	-1.53
7LVTEA		5,175.6	74.1	0.49	5,129.6	37.7	0.28
8EP63Z		4,976.0	-125.5	-0.83	4,911.6	-180.3	-1.33
92FNUB		4,992.3	-109.2	-0.72	5,003.3	-88.6	-0.65
9CEWM9		5,261.0	159.5	1.05	5,310.9	219.0	1.62
9YAXCG		5,334.2	232.7	1.53	5,276.2	184.4	1.36
ABLQV2		4,931.3	-170.2	-1.12	5,047.4	-44.5	-0.33
DCGCM2		5,069.5	-32.0	-0.21	5,033.6	-58.2	-0.43
EYQZNW		5,241.1	139.6	0.92	5,136.5	44.6	0.33
JTCNYL	X	5,986.2	884.7	5.82	5,328.4	236.5	1.75
L2DUP7		5,083.2	-18.3	-0.12	5,120.8	29.0	0.21
LBH37Q		4,814.0	-287.5	-1.89	4,858.0	-233.9	-1.73
M8X87J		5,247.2	145.7	0.96	5,295.4	203.5	1.50
MLHPYN		5,340.3	238.8	1.57	5,291.0	199.2	1.47
MNMHQ2		5,083.4	-18.1	-0.12	5,205.6	113.7	0.84
N26P3R		5,113.2	11.7	0.08	5,095.0	3.1	0.02
NF9GYB		5,183.4	81.9	0.54	5,160.8	68.9	0.51
NM9B6J		5,143.8	42.3	0.28	5,174.2	82.3	0.61
P3GLAH		5,153.4	51.9	0.34	5,039.6	-52.3	-0.39
PXZGBM		5,202.4	100.9	0.66	5,036.1	-55.8	-0.41
Q787GB		4,960.6	-140.9	-0.93	5,088.3	-3.6	-0.03
QFCPPT		5,129.0	27.5	0.18	5,111.2	19.3	0.14
QHKH42		4,964.0	-137.5	-0.90	5,009.4	-82.4	-0.61
QKRZ3W	*	4,695.8	-405.7	-2.67	4,849.4	-242.5	-1.79
T4FYJE		5,320.0	218.5	1.44	5,247.5	155.6	1.15
TA646A	*	4,922.9	-178.6	-1.17	4,739.0	-352.9	-2.61
TG7VJR		5,024.6	-76.9	-0.51	5,037.9	-54.0	-0.40



Plastics Interlaboratory Testing Program

Report #138

Analysis 705

2nd Qtr 2026

Tensile Stress at Break - psi

WebCode	Data Flag	Sample F17			Sample F18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
TJME4L		5,146.2	44.7	0.29	5,211.0	119.1	0.88
TTGTFL		5,141.8	40.3	0.26	5,096.0	4.1	0.03
UADAQV		4,980.5	-121.0	-0.80	5,064.4	-27.5	-0.20
UAHRNU		5,271.6	170.1	1.12	5,232.2	140.3	1.04
UVZ8L8		4,986.2	-115.3	-0.76	5,022.4	-69.5	-0.51
VJM2VK		5,141.2	39.7	0.26	5,187.2	95.3	0.70
VRYJH6		5,113.2	11.7	0.08	5,029.8	-62.1	-0.46
VWPTR4		5,061.5	-40.0	-0.26	4,995.2	-96.7	-0.71
WK93ED	X	5,812.4	710.9	4.67	5,292.6	200.7	1.48
X2FGCL		5,055.4	-46.1	-0.30	5,148.5	56.6	0.42
X6RQYP		5,123.6	22.1	0.15	5,065.0	-26.9	-0.20
X78QHE		4,985.6	-116.0	-0.76	5,007.9	-83.9	-0.62
XMWYDQ		5,038.8	-62.7	-0.41	4,984.2	-107.7	-0.80
ZWYVGK		5,001.8	-99.7	-0.66	4,917.4	-174.5	-1.29
ZZUMKB		4,947.0	-154.5	-1.02	5,126.8	34.9	0.26

Summary Statistics		
	Sample F17	Sample F18
Grand Means	5,101.53 psi	5,091.86 psi
Stnd Dev Btwn Labs	152.07 psi	135.24 psi
Statistics based on 47 of 50 reporting participants		

Sample F17: ABS & Sample F18: ABS

Comments on Assigned Data Flags for Test #705

- 38HJXN (X) - Data for sample F17 are high. Inconsistent within the determinations of both samples.
- WK93ED (X) - Data for sample F17 are high. Inconsistent within the determinations of sample F18.
- JTCNYL (X) - Data for sample F17 are high. Inconsistent within the determinations of sample F17.



Plastics Interlaboratory Testing Program

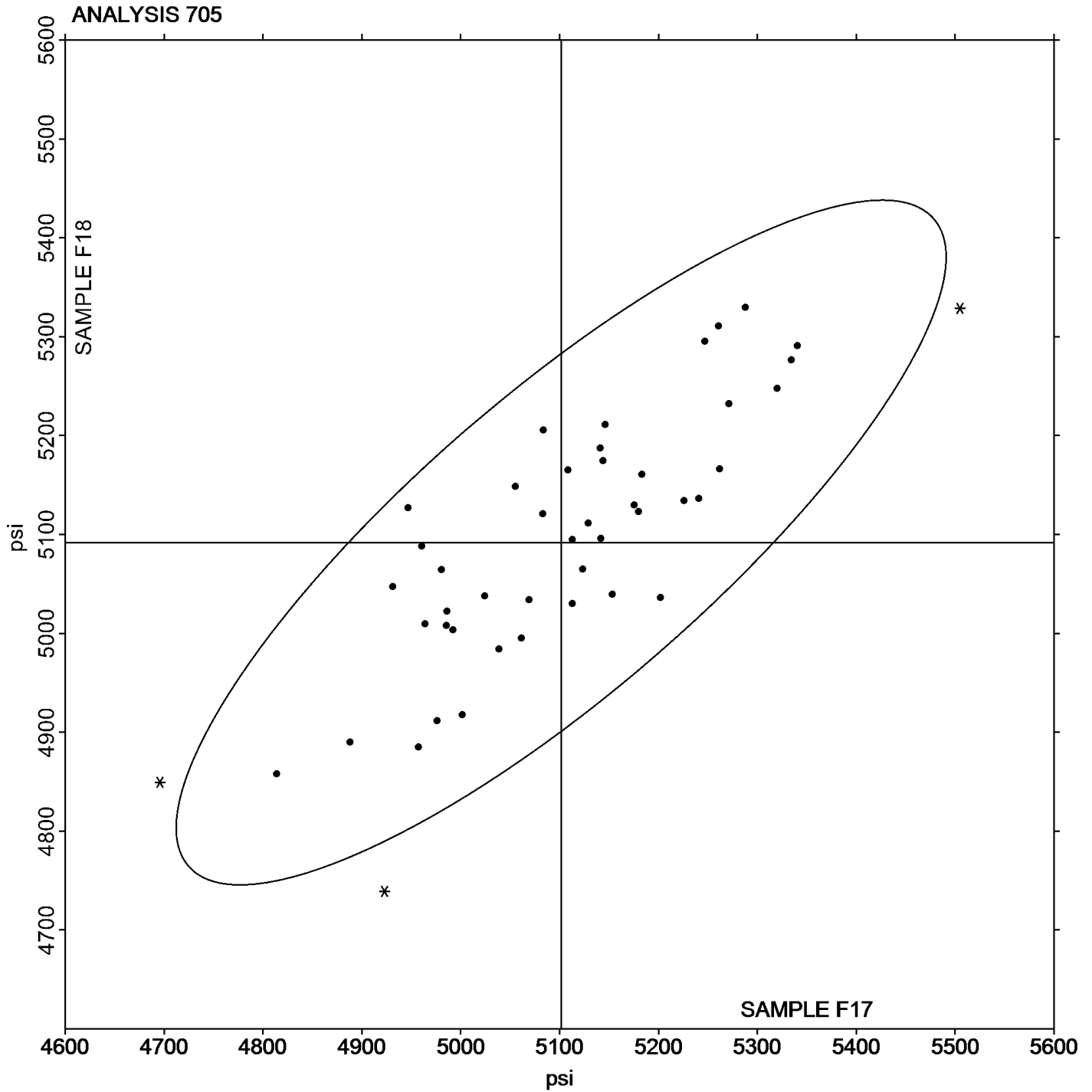
Report #138

Analysis 705

2nd Qtr 2026

Tensile Stress at Break - psi

Grand Mean Sample F17: 5,101.53 psi Grand Mean Sample F18: 5,091.86 psi





Plastics Interlaboratory Testing Program

Report #138

Analysis 706

2nd Qtr 2026

Percent Elongation at Yield - Percent

WebCode	Data Flag	Sample F17			Sample F18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
292CQY		2.356	-0.053	-0.79	2.398	-0.018	-0.29
2MLQUY		2.352	-0.057	-0.85	2.354	-0.062	-1.01
2MLUJ4		2.452	0.043	0.64	2.478	0.062	1.00
2RY79C		2.386	-0.023	-0.34	2.382	-0.034	-0.55
2ZTC3D		2.444	0.035	0.53	2.504	0.088	1.43
38HJXN		2.432	0.023	0.35	2.380	-0.036	-0.59
4EJVUK		2.488	0.079	1.18	2.524	0.108	1.75
4NPZJG		2.456	0.047	0.70	2.414	-0.002	-0.04
4XB4RF		2.410	0.001	0.02	2.440	0.024	0.39
64VGAF		2.476	0.067	1.00	2.464	0.048	0.78
7LVTEA	X	2.156	-0.253	-3.77	2.254	-0.162	-2.63
8EP63Z		2.356	-0.053	-0.79	2.362	-0.054	-0.88
92FNUB		2.388	-0.021	-0.32	2.386	-0.030	-0.49
9CEWM9		2.436	0.027	0.40	2.473	0.057	0.93
9YAXCG	X	1.198	-1.211	-18.06	1.204	-1.212	-19.67
ABLQV2		2.334	-0.075	-1.12	2.376	-0.040	-0.65
DCGCM2		2.380	-0.029	-0.43	2.390	-0.026	-0.42
EYQZNW		2.388	-0.021	-0.31	2.426	0.010	0.16
FZ23AV	X	6.360	3.951	58.94	6.294	3.878	62.92
JTCNYL	X	2.254	-0.155	-2.31	1.782	-0.634	-10.29
L2DUP7		2.474	0.065	0.97	2.484	0.068	1.10
LBH37Q		2.292	-0.117	-1.74	2.318	-0.098	-1.59
LDNTNK		2.368	-0.041	-0.61	2.386	-0.030	-0.49
M8X87J		2.494	0.085	1.27	2.500	0.084	1.36
MLHPYN		2.394	-0.015	-0.23	2.375	-0.041	-0.67
MNMHQ2		2.432	0.023	0.35	2.432	0.016	0.26
N26P3R		2.482	0.073	1.09	2.450	0.034	0.55
NM9B6J		2.472	0.063	0.94	2.458	0.042	0.68
P3GLAH		2.464	0.055	0.82	2.500	0.084	1.36
PXZGBM		2.375	-0.033	-0.50	2.408	-0.008	-0.13
Q787GB		2.472	0.063	0.94	2.458	0.042	0.68
QFCPPT		2.356	-0.053	-0.79	2.336	-0.080	-1.30
QHKH42		2.416	0.007	0.11	2.430	0.014	0.22
T4FYJE		2.328	-0.081	-1.21	2.335	-0.081	-1.31
TA646A	X	2.432	0.023	0.35	2.262	-0.154	-2.50



Plastics Interlaboratory Testing Program

Report #138

Analysis 706

2nd Qtr 2026

Percent Elongation at Yield - Percent

WebCode	Data Flag	Sample F17			Sample F18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
TG7VJR	X	2.662	0.253	3.78	2.736	0.320	5.19
TJME4L	X	6.798	4.389	65.48	6.708	4.292	69.64
TTGTFL		2.352	-0.057	-0.85	2.360	-0.056	-0.91
UADAQV		2.472	0.063	0.94	2.465	0.049	0.79
UAHRNU		2.412	0.003	0.05	2.404	-0.012	-0.20
UVZ8L8		2.450	0.041	0.61	2.420	0.004	0.06
VRYJH6		2.344	-0.065	-0.97	2.370	-0.046	-0.75
VWPTR4		2.258	-0.151	-2.26	2.289	-0.127	-2.07
WK93ED	X	21.460	19.051	284.21	18.760	16.344	265.20
X2FGCL	X	2.004	-0.405	-6.04	2.438	0.022	0.35
X2RF3P		2.408	-0.001	-0.01	2.392	-0.024	-0.39
X6RQYP	*	2.592	0.183	2.73	2.584	0.168	2.72
X78QHE		2.378	-0.031	-0.46	2.380	-0.036	-0.59
XMWYDQ		2.402	-0.007	-0.10	2.406	-0.010	-0.17
ZWYVGK		2.482	0.073	1.09	2.462	0.046	0.74
ZZUMKB		2.268	-0.141	-2.10	2.326	-0.090	-1.46

Summary Statistics		
	Sample F17	Sample F18
Grand Means	2.4088 Percent	2.4162 Percent
Std Dev Btwn Labs	0.0670 Percent	0.0616 Percent
Statistics based on 42 of 51 reporting participants		

Sample F17: ABS & Sample F18: ABS

Comments on Assigned Data Flags for Test #706

- TA646A (X) - Inconsistent in testing between samples.
- X2FGCL (X) - Data for sample F17 are low. Inconsistent within the determinations of both samples.
- 9YAXCG (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of sample F17.
- TG7VJR (X) - Data for both samples are high. Possible Systematic Error.
- 7LVTEA (X) - Data for sample F17 are low. Inconsistent within the determinations of both samples.
- TJME4L (X) - Extreme data.
- WK93ED (X) - Extreme data.
- FZ23AV (X) - Extreme data.
- JTCNYL (X) - Data for sample F18 are low. Inconsistent within the determinations of both samples.



Plastics Interlaboratory Testing Program

Report #138

Analysis 706

2nd Qtr 2026

Percent Elongation at Yield - Percent

Results by Methodology (as reported by laboratory)

Test Methodology	Sample F17 <i>ABS</i>			Sample F18 <i>ABS</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
manual elongation measurements							0/1
contact extensometer to measure elongation	2.4125	0.0634	0.004	2.4190	0.0590	0.003	32/36
crosshead deflection/movement	2.4320	0.0852	0.023	2.4613	0.0766	0.045	3/5
video extensometer	2.3819	0.0794	-0.027	2.3840	0.0611	-0.032	7/9



Plastics Interlaboratory Testing Program

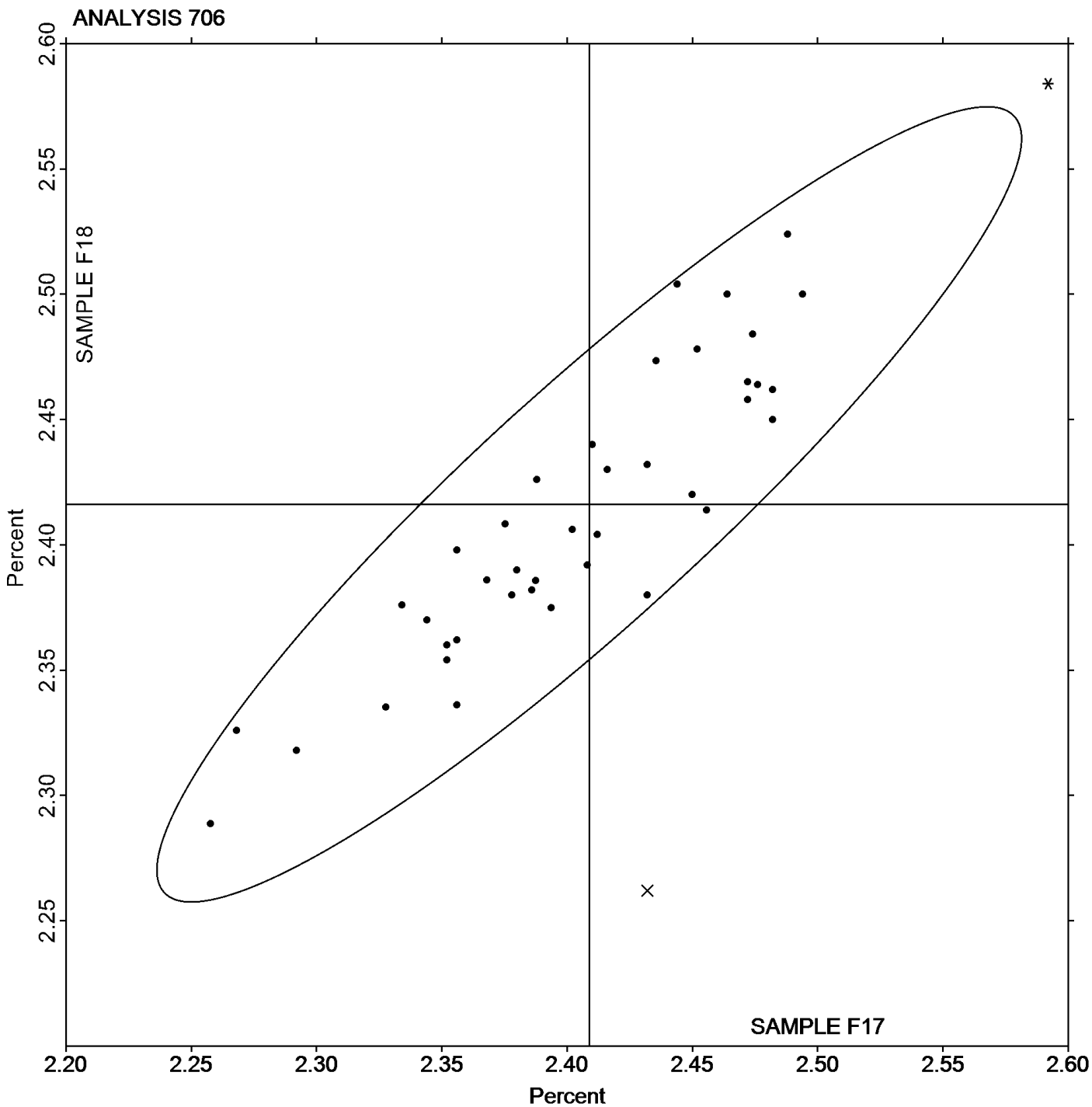
Analysis 706

Percent Elongation at Yield - Percent

Report #138

2nd Qtr 2026

Grand Mean Sample F17: 2.4088 Percent Grand Mean Sample F18: 2.4162 Percent





Plastics Interlaboratory Testing Program

Report #138

Analysis 708

2nd Qtr 2026

Modulus of Elasticity - ksi

WebCode	Data Flag	Sample F17			Sample F18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
292CQY		359.96	11.72	0.83	358.42	10.07	0.70
2MLUJ4		347.88	-0.36	-0.03	347.18	-1.17	-0.08
2RY79C		356.00	7.76	0.55	358.00	9.65	0.67
38HJXN		343.40	-4.84	-0.34	345.00	-3.35	-0.23
4EJVUK		342.00	-6.24	-0.44	342.87	-5.48	-0.38
4NPZJG		328.07	-20.18	-1.43	326.26	-22.10	-1.53
4XB4RF		360.00	11.76	0.83	361.18	12.83	0.89
64VGAF		336.91	-11.33	-0.80	337.82	-10.53	-0.73
7LVTEA		345.15	-3.10	-0.22	344.91	-3.44	-0.24
8EP63Z		350.21	1.97	0.14	352.04	3.69	0.25
92FNUB		355.92	7.68	0.54	355.16	6.81	0.47
9CEWM9		356.13	7.88	0.56	359.69	11.34	0.78
ABLQV2		366.69	18.44	1.30	365.15	16.80	1.16
DCGCM2		327.27	-20.97	-1.48	326.86	-21.49	-1.48
EYQZNW	X	341.20	-7.04	-0.50	325.20	-23.15	-1.60
JTCNYL	X	394.29	46.05	3.26	475.17	126.82	8.76
L2DUP7		344.53	-3.72	-0.26	341.64	-6.71	-0.46
LBH37Q		366.00	17.76	1.26	362.20	13.85	0.96
LDNTNK		357.20	8.96	0.63	356.60	8.25	0.57
M8X87J		346.13	-2.11	-0.15	342.28	-6.07	-0.42
MLHPYN	X	368.69	20.45	1.45	409.88	61.53	4.25
MNMQ2		340.94	-7.30	-0.52	342.44	-5.91	-0.41
N26P3R	X	340.22	-8.02	-0.57	352.30	3.95	0.27
NF9GYB		357.62	9.38	0.66	359.48	11.13	0.77
NM9B6J		348.12	-0.12	-0.01	346.66	-1.69	-0.12
P3GLAH		340.78	-7.46	-0.53	337.36	-10.99	-0.76
PXZGBM	*	375.08	26.84	1.90	380.80	32.44	2.24
Q787GB		344.61	-3.63	-0.26	344.58	-3.77	-0.26
QFCPPT		369.86	21.62	1.53	370.92	22.57	1.56
QHKB42	X	352.57	4.33	0.31	177.16	-171.19	-11.82
T4FYJE	X	350.21	1.97	0.14	339.45	-8.90	-0.62
TA646A		341.97	-6.27	-0.44	342.50	-5.86	-0.40
TG7VJR	*	304.60	-43.64	-3.09	304.20	-44.15	-3.05
TJME4L	X	134.56	-213.68	-15.11	139.62	-208.73	-14.42
TTGTFL		339.06	-9.18	-0.65	337.62	-10.73	-0.74



Plastics Interlaboratory Testing Program

Report #138

Analysis 708

2nd Qtr 2026

Modulus of Elasticity - ksi

WebCode	Data Flag	Sample F17			Sample F18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
UADAQV		354.40	6.16	0.44	356.20	7.84	0.54
UAHRNU		354.48	6.24	0.44	352.08	3.73	0.26
UVZ8L8		346.38	-1.86	-0.13	346.08	-2.27	-0.16
VJM2VK	X	293.70	-54.54	-3.86	315.80	-32.55	-2.25
VRYJH6		360.42	12.18	0.86	359.72	11.37	0.79
VWPTR4	X	341.23	-7.01	-0.50	332.36	-15.99	-1.10
X2FGCL	X	310.49	-37.76	-2.67	327.30	-21.05	-1.45
X2RF3P		344.80	-3.44	-0.24	347.42	-0.94	-0.06
X6RQYP		317.78	-30.46	-2.15	319.86	-28.49	-1.97
X78QHE		351.06	2.82	0.20	350.48	2.13	0.15
XMWYDQ		346.70	-1.54	-0.11	346.02	-2.33	-0.16
ZWYVGK		336.77	-11.47	-0.81	340.88	-7.48	-0.52
ZZUMKB		368.36	20.12	1.42	368.90	20.55	1.42

Summary Statistics		
	Sample F17	Sample F18
Grand Means	348.243 ksi	348.354 ksi
Std Dev Btwn Labs	14.145 ksi	14.477 ksi
Statistics based on 38 of 48 reporting participants		

Sample F17: ABS & Sample F18: ABS

Comments on Assigned Data Flags for Test #708

- VWPTR4 (X) - Inconsistent in testing between samples.
- X2FGCL (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.
- QHKH42 (X) - Data for sample F18 are low.
- VJM2VK (X) - Data for sample F17 are low. Inconsistent within the determinations of both samples.
- N26P3R (X) - Inconsistent in testing between samples.
- TJME4L (X) - Data for both samples are low.
- EYQZNW (X) - Inconsistent in testing between samples.
- MLHPYN (X) - Data for sample F18 are high. Inconsistent within the determinations of both samples.
- T4FYJE (X) - Inconsistent in testing between samples.
- JTCNYL (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of both samples.



Plastics Interlaboratory Testing Program

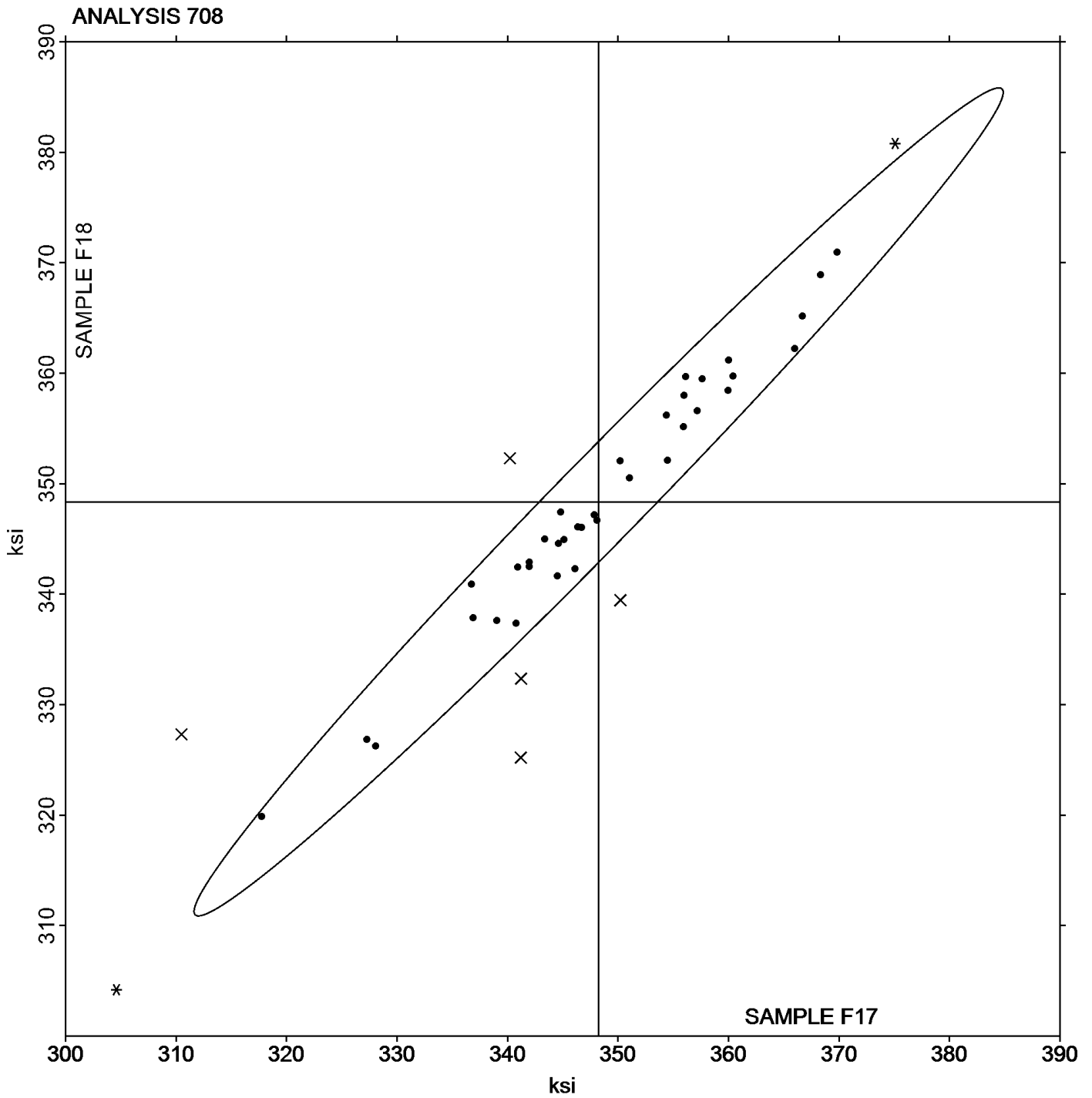
Report #138

Analysis 708

2nd Qtr 2026

Modulus of Elasticity - ksi

Grand Mean Sample F17: 348.24 ksi Grand Mean Sample F18: 348.35 ksi





Plastics Interlaboratory Testing Program

Report #138

Analysis 710

2nd Qtr 2026

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

WebCode	Data Flag	Sample E17			Sample E18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
292CQY		80.21	0.68	1.03	80.10	0.61	0.96	ZW
2MLQUY		80.03	0.50	0.76	79.93	0.43	0.68	IN
2RY79C		78.62	-0.90	-1.36	78.78	-0.72	-1.14	TO
64VGAF		79.43	-0.10	-0.15	79.50	0.01	0.01	TY
7JBAM6		78.83	-0.70	-1.05	79.25	-0.24	-0.38	IN
8EP63Z		80.03	0.50	0.76	79.70	0.21	0.33	CE
ABLQV2		78.35	-1.17	-1.77	78.33	-1.17	-1.85	TO
AG7BFT		79.68	0.15	0.23	79.48	-0.02	-0.03	TO
CBRRG7		80.13	0.60	0.91	79.68	0.18	0.29	CS
L2DUP7		80.10	0.58	0.87	79.98	0.48	0.76	IN
LDNTNK		77.95	-1.57	-2.37	77.88	-1.62	-2.56	TO
Q787GB		80.05	0.53	0.79	79.95	0.46	0.72	IN
QDUTCG		78.90	-0.62	-0.94	78.93	-0.57	-0.90	TO
QHKH42		79.90	0.38	0.57	79.78	0.28	0.45	IN
TA646A		79.83	0.30	0.46	80.25	0.76	1.20	IN
TG7VJR	X	85.13	5.60	8.43	85.25	5.76	9.10	AT
UADAQV		79.93	0.40	0.61	80.25	0.75	1.19	ZW
ULTPNA		79.55	0.03	0.04	79.48	-0.02	-0.03	CE
WK93ED		78.98	-0.55	-0.82	78.83	-0.67	-1.06	TO
XMWYDQ		79.90	0.38	0.57	79.75	0.26	0.41	IN
XR6EQL		80.20	0.68	1.02	80.05	0.56	0.88	CF
ZWYVGK		79.43	-0.10	-0.15	79.53	0.03	0.05	TY

Summary Statistics		
	Sample E17	Sample E18
Grand Means	79.523 Degrees C	79.493 Degrees C
Std Dev Btwn Labs	0.664 Degrees C	0.632 Degrees C
Statistics based on 21 of 22 reporting participants		

Sample E17: HIPS & Sample E18: HIPS

Comments on Assigned Data Flags for Test #710

TG7VJR (X) - Data for both samples are high. Possible Systematic Error.



Plastics Interlaboratory Testing Program

Report #138

Analysis 710

2nd Qtr 2026

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

Key to Instrument Codes Reported by Participants

AT Atlas

CE Ceast

CF Coesfeld

CS CSI

IN Instron

TO Tinius Olsen

TY Toyoseiki

ZW Zwick



Plastics Interlaboratory Testing Program

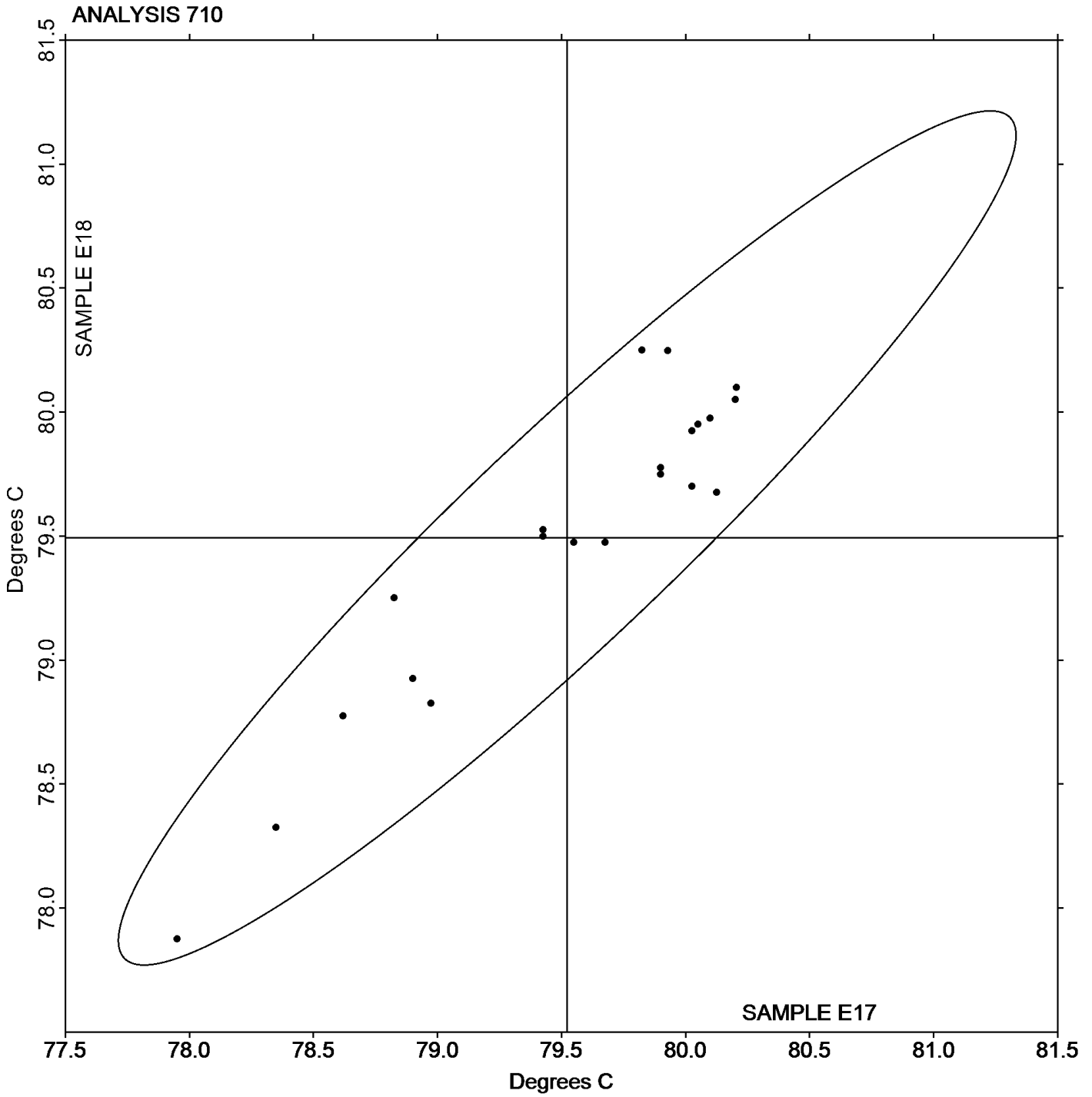
Report #138

Analysis 710

2nd Qtr 2026

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

Grand Mean Sample E17: 79.523 Degrees C Grand Mean Sample E18: 79.493 Degrees C





Plastics Interlaboratory Testing Program

Report #138

Analysis 711

2nd Qtr 2026

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

WebCode	Data Flag	Sample G17			Sample G18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2MLQUY		112.4	2.2	0.79	113.8	3.2	1.33	IN
2RY79C		110.0	-0.2	-0.06	110.4	-0.3	-0.13	XX
8EP63Z		110.2	0.0	-0.01	111.8	1.1	0.47	CE
ABLQV2		104.3	-5.9	-2.19	106.8	-3.9	-1.65	TO
LBH37Q		114.8	4.6	1.69	114.7	4.0	1.68	RR
LDNTNK		106.3	-3.9	-1.42	106.8	-3.9	-1.63	TO
Q787GB		111.3	1.1	0.39	111.6	0.9	0.37	IN
QDUTCG		110.4	0.2	0.08	109.6	-1.1	-0.47	TO
QHKH42		111.0	0.8	0.30	110.9	0.2	0.08	IN
WNAWZ2		111.5	1.3	0.48	110.3	-0.4	-0.17	XX
X43NJG		109.3	-0.9	-0.35	109.8	-0.9	-0.38	XX
XR6EQL		111.0	0.8	0.30	111.9	1.2	0.50	CE

Summary Statistics		
	Sample G17	Sample G18
Grand Means	110.19 Degrees C	110.66 Degrees C
Std Dev Btwn Labs	2.72 Degrees C	2.37 Degrees C
Statistics based on 12 of 12 reporting participants		

Sample G17: PP & Sample G18: PP

Key to Instrument Codes Reported by Participants

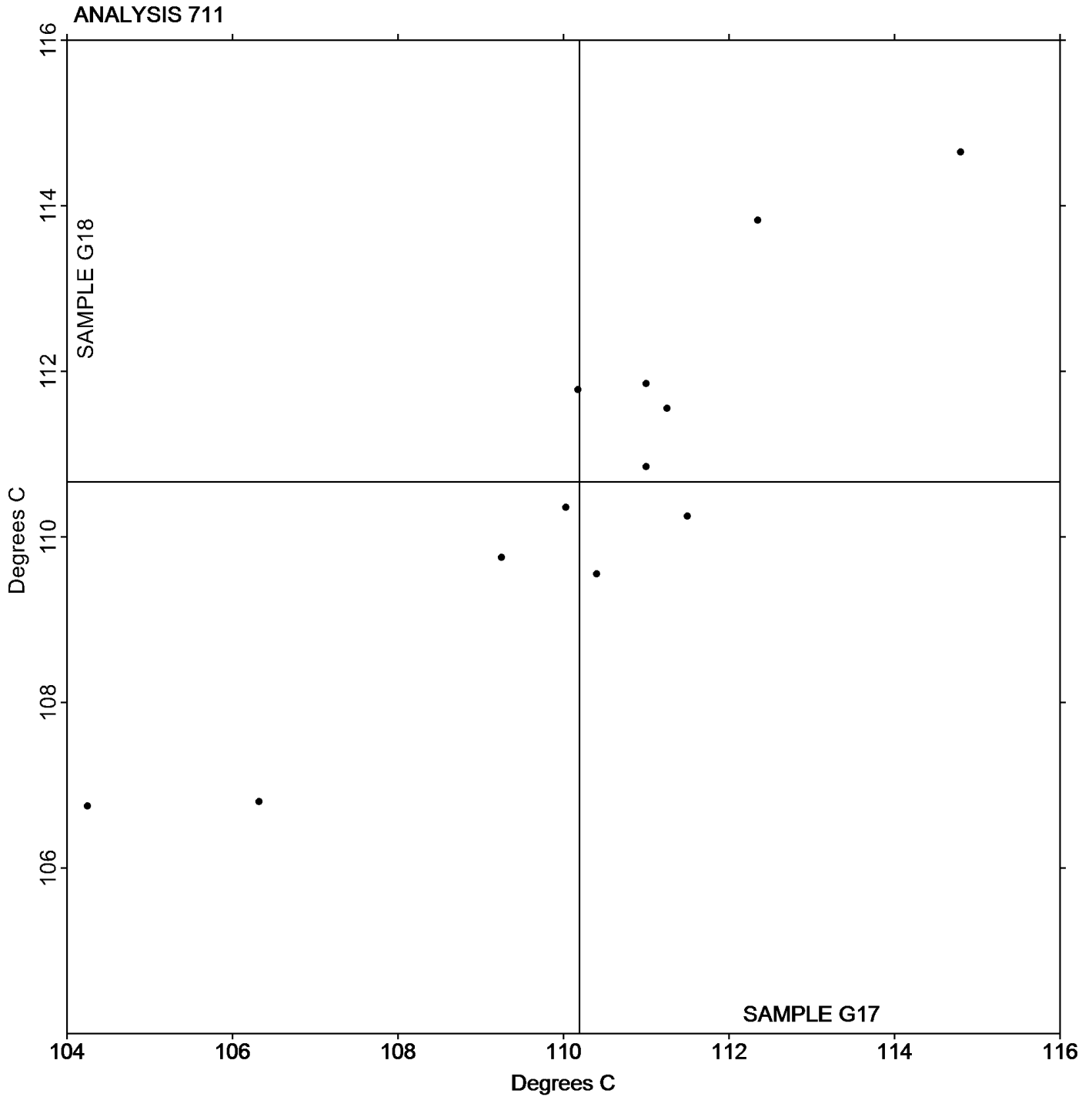
- CE Ceast
- RR Ray-Ran
- XX Instrument manufacturer not specified by lab
- IN Instron
- TO Tinius Olsen



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

Report #138
2nd Qtr 2026

Grand Mean Sample G17: 110.19 Degrees C Grand Mean Sample G18: 110.66 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

Report #138

Analysis 712

2nd Qtr 2026

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

WebCode	Data Flag	Sample N17			Sample N18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2J2YHW	*	104.93	0.53	0.27	106.70	2.18	1.10	IN
2MLQUY		104.60	0.21	0.11	105.28	0.76	0.38	IN
2RY79C		108.46	4.06	2.08	108.87	4.35	2.19	TO
38PWYW		104.18	-0.22	-0.11	105.53	1.01	0.51	CE
4PKHLH		103.33	-1.07	-0.55	103.28	-1.24	-0.63	CE
64VGAF		103.80	-0.59	-0.30	104.13	-0.39	-0.20	TY
8EP63Z		104.80	0.41	0.21	104.50	-0.02	-0.01	CE
9CGBL8		104.65	0.26	0.13	105.10	0.58	0.29	CE
9KVXXW		108.00	3.61	1.85	107.25	2.73	1.37	TO
BCCEQ3		106.22	1.83	0.94	105.13	0.61	0.31	TO
CYDRKC		106.05	1.66	0.85	105.55	1.03	0.52	IN
JL9A4P		105.68	1.28	0.66	105.35	0.83	0.42	TO
JPAPNT		103.74	-0.66	-0.34	103.84	-0.68	-0.34	ZW
KMYVAL		101.75	-2.64	-1.35	102.25	-2.27	-1.14	TO
KQHMLN		105.90	1.51	0.77	105.63	1.11	0.56	CE
KUG29D		99.93	-4.47	-2.29	99.78	-4.74	-2.39	CE
L2DUP7		104.30	-0.09	-0.05	104.18	-0.34	-0.17	IN
M6RCDL		101.65	-2.74	-1.40	101.55	-2.97	-1.49	IN
N9LT3K		104.73	0.33	0.17	104.70	0.18	0.09	CE
Q787GB		106.43	2.03	1.04	106.35	1.83	0.92	IN
QHKH42		103.30	-1.09	-0.56	103.20	-1.32	-0.66	IN
TA646A		105.33	0.93	0.48	105.63	1.11	0.56	IN
TG7VJR	*	98.45	-5.94	-3.04	98.50	-6.02	-3.03	AT
V9JAFJ		106.28	1.88	0.96	107.43	2.91	1.46	XX
VENM9U		104.05	-0.34	-0.18	104.20	-0.32	-0.16	ZW
VF38UD		104.45	0.06	0.03	105.18	0.66	0.33	XX
VZ98V4		103.20	-1.19	-0.61	103.53	-0.99	-0.50	CE
WK93ED	X	100.13	-4.27	-2.18	98.10	-6.42	-3.23	TO
WKT4W9		104.48	0.08	0.04	104.48	-0.04	-0.02	IN
WNAWZ2	X	104.35	-0.04	-0.02	106.80	2.28	1.15	XX
WP8GYG		104.25	-0.14	-0.07	104.50	-0.02	-0.01	TO
WVR3X9		104.00	-0.39	-0.20	103.75	-0.77	-0.39	TO
X43NJG		104.55	0.16	0.08	104.20	-0.32	-0.16	XX
XR6EQL		105.80	1.41	0.72	105.75	1.23	0.62	CF
Y4EGLH		104.53	0.13	0.07	104.48	-0.04	-0.02	TY



Plastics Interlaboratory Testing Program

Report #138

Analysis 712

2nd Qtr 2026

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

WebCode	Data Flag	Sample N17			Sample N18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
ZWYVGK		103.60	-0.79	-0.41	103.93	-0.59	-0.30	TY

Summary Statistics			
	Sample N17		Sample N18
Grand Means	104.392 Degrees C		104.519 Degrees C
Stnd Dev Btwn Labs	1.955 Degrees C		1.987 Degrees C
Statistics based on 34 of 36 reporting participants			

Sample N17: ABS/PC & Sample N18: ABS/PC

Comments on Assigned Data Flags for Test #712

- WNAWZ2 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.
- WK93ED (X) - Data for sample N18 are low.

Key to Instrument Codes Reported by Participants

AT	Atlas	CE	Ceast
CF	Coesfeld	IN	Instron
TO	Tinius Olsen	TY	Toyoseiki
XX	Instrument manufacturer not specified by lab	ZW	Zwick



Plastics Interlaboratory Testing Program

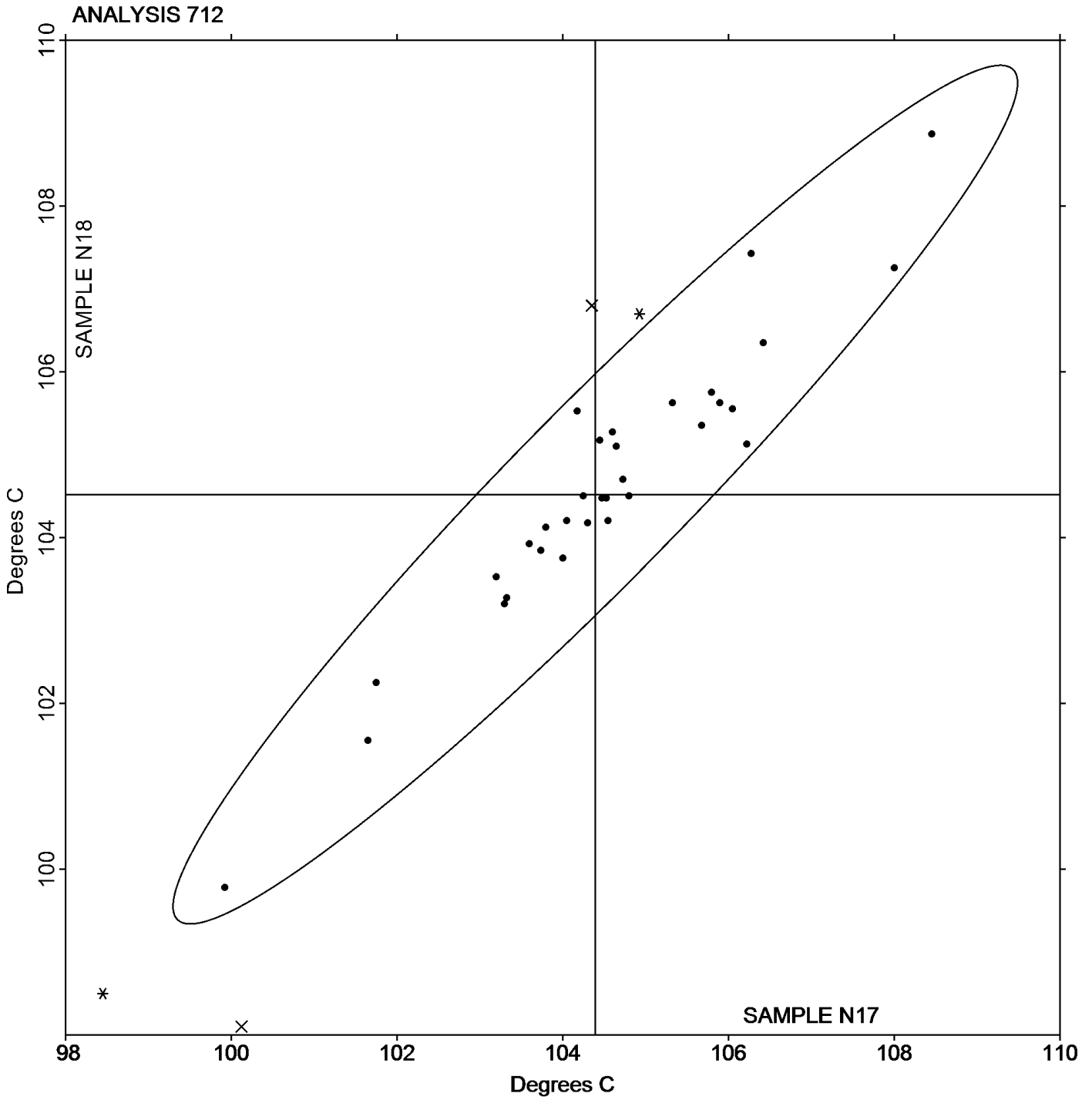
Report #138

Analysis 712

2nd Qtr 2026

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

Grand Mean Sample N17: 104.39 Degrees C Grand Mean Sample N18: 104.52 Degrees C





Plastics Interlaboratory Testing Program

Report #138

Analysis 715

2nd Qtr 2026

Vicat Softening Temperature (Rate A)

WebCode	Data Flag	Sample H17			Sample H18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2RY79C		95.52	-0.53	-0.83	95.52	-0.54	-0.87	TO
38PWWY		96.25	0.20	0.32	96.25	0.19	0.30	CF
64VGAF		96.32	0.27	0.42	96.42	0.35	0.57	TY
7A3AXJ		95.85	-0.20	-0.31	95.87	-0.20	-0.31	IN
8EP63Z		95.98	-0.06	-0.10	95.98	-0.08	-0.13	CE
9CGBL8		95.45	-0.60	-0.94	95.43	-0.63	-1.01	CE
ABLQV2		95.32	-0.73	-1.15	95.37	-0.70	-1.12	TO
BK2WTW		95.20	-0.85	-1.33	95.12	-0.95	-1.52	TO
KUG29D	*	98.10	2.05	3.23	97.93	1.87	3.01	CE
L2DUP7		96.12	0.07	0.11	96.20	0.14	0.22	IN
PNXQKQ		96.32	0.27	0.42	96.43	0.37	0.60	CE
Q787GB		96.48	0.44	0.69	96.68	0.62	1.00	CF
QBMBF7		95.78	-0.26	-0.41	95.87	-0.20	-0.31	IN
QHKH42		96.10	0.05	0.08	96.13	0.07	0.12	IN
RZHQQJ		95.70	-0.35	-0.55	95.70	-0.36	-0.58	WZ
TA646A		95.83	-0.21	-0.33	95.92	-0.15	-0.23	AT
TG7VJR		96.58	0.54	0.84	96.37	0.30	0.49	AT
XR6EQL		96.33	0.29	0.45	96.40	0.34	0.54	CF
ZXPMD4		95.65	-0.40	-0.62	95.58	-0.48	-0.77	CE

Summary Statistics		
	Sample H17	Sample H18
Grand Means	96.046 Degrees C	96.062 Degrees C
Std Dev Btwn Labs	0.637 Degrees C	0.621 Degrees C
Statistics based on 19 of 19 reporting participants		

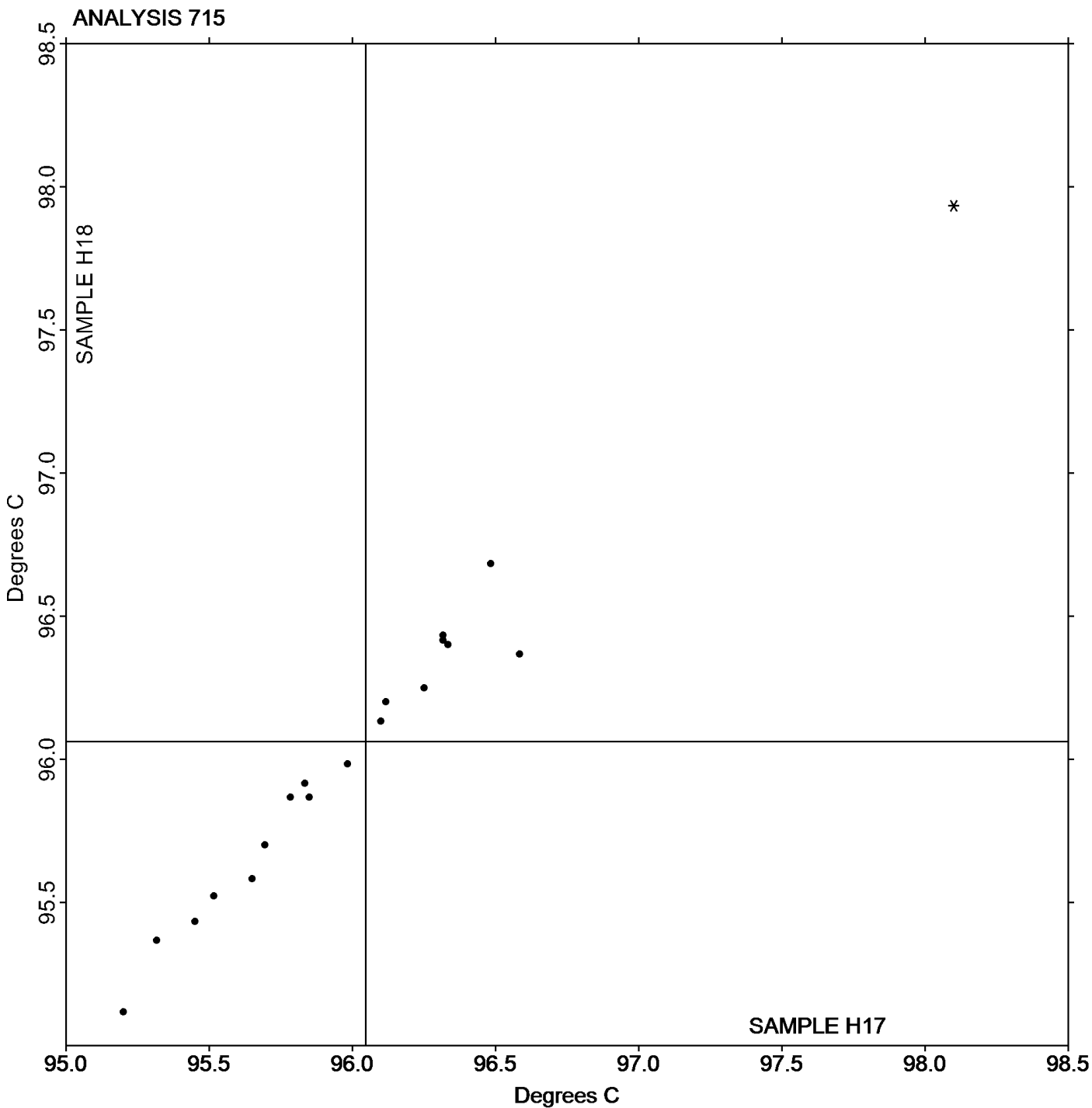
Sample H17: HIPS & Sample H18: HIPS

Key to Instrument Codes Reported by Participants

AT	Atlas	CE	Ceast
CF	Coesfeld	IN	Instron
TO	Tinius Olsen	TY	Toyoseiki
WZ	Zwick		



Grand Mean Sample H17: 96.046 Degrees C Grand Mean Sample H18: 96.062 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

Report #138

Analysis 716

2nd Qtr 2026

Vicat Softening Temperature (Rate B)

WebCode	Data Flag	Sample R17			Sample R18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2RY79C		97.45	-0.49	-0.38	97.34	-0.63	-0.49	TO
38PWWY		98.18	0.24	0.19	97.90	-0.07	-0.06	CF
64VGAF		98.43	0.49	0.38	98.10	0.13	0.10	TY
7A3AXJ		98.43	0.49	0.38	98.47	0.49	0.38	IN
8PB9BZ		98.42	0.48	0.37	98.23	0.26	0.20	QA
9CGBL8		97.40	-0.54	-0.42	97.40	-0.57	-0.44	CE
ABLQV2		97.42	-0.52	-0.41	97.43	-0.54	-0.41	TO
BK2WTW		97.42	-0.52	-0.41	97.55	-0.42	-0.32	TO
KUG29D		99.38	1.44	1.12	99.93	1.96	1.50	CE
L2DUP7		98.75	0.81	0.63	98.63	0.66	0.51	IN
PNXQKQ		96.28	-1.66	-1.29	96.37	-1.61	-1.23	CE
Q787GB		98.38	0.44	0.35	98.45	0.48	0.37	CF
QBMBF7		98.03	0.09	0.07	98.17	0.19	0.15	IN
QHKH42		98.30	0.36	0.28	98.28	0.31	0.24	IN
RZHQQJ		98.15	0.21	0.16	98.20	0.23	0.17	WZ
TA646A		98.25	0.31	0.24	98.18	0.21	0.16	AT
TG7VJR		99.52	1.58	1.23	99.85	1.88	1.44	AT
XR6EQL		99.00	1.06	0.83	99.13	1.16	0.89	CF
XR98W2	*	93.67	-4.27	-3.33	93.85	-4.12	-3.16	CE

Summary Statistics		
	Sample R17	Sample R18
Grand Means	97.940 Degrees C	97.972 Degrees C
Stnd Dev Btwn Labs	1.284 Degrees C	1.306 Degrees C
Statistics based on 19 of 19 reporting participants		

Sample R17: HIPS & Sample R18: HIPS

Key to Instrument Codes Reported by Participants

AT Atlas	CE Ceast
CF Coesfeld	IN Instron
QA Qualitest	TO Tinius Olsen
TY Toyoseiki	WZ Zwick



Plastics Interlaboratory Testing Program

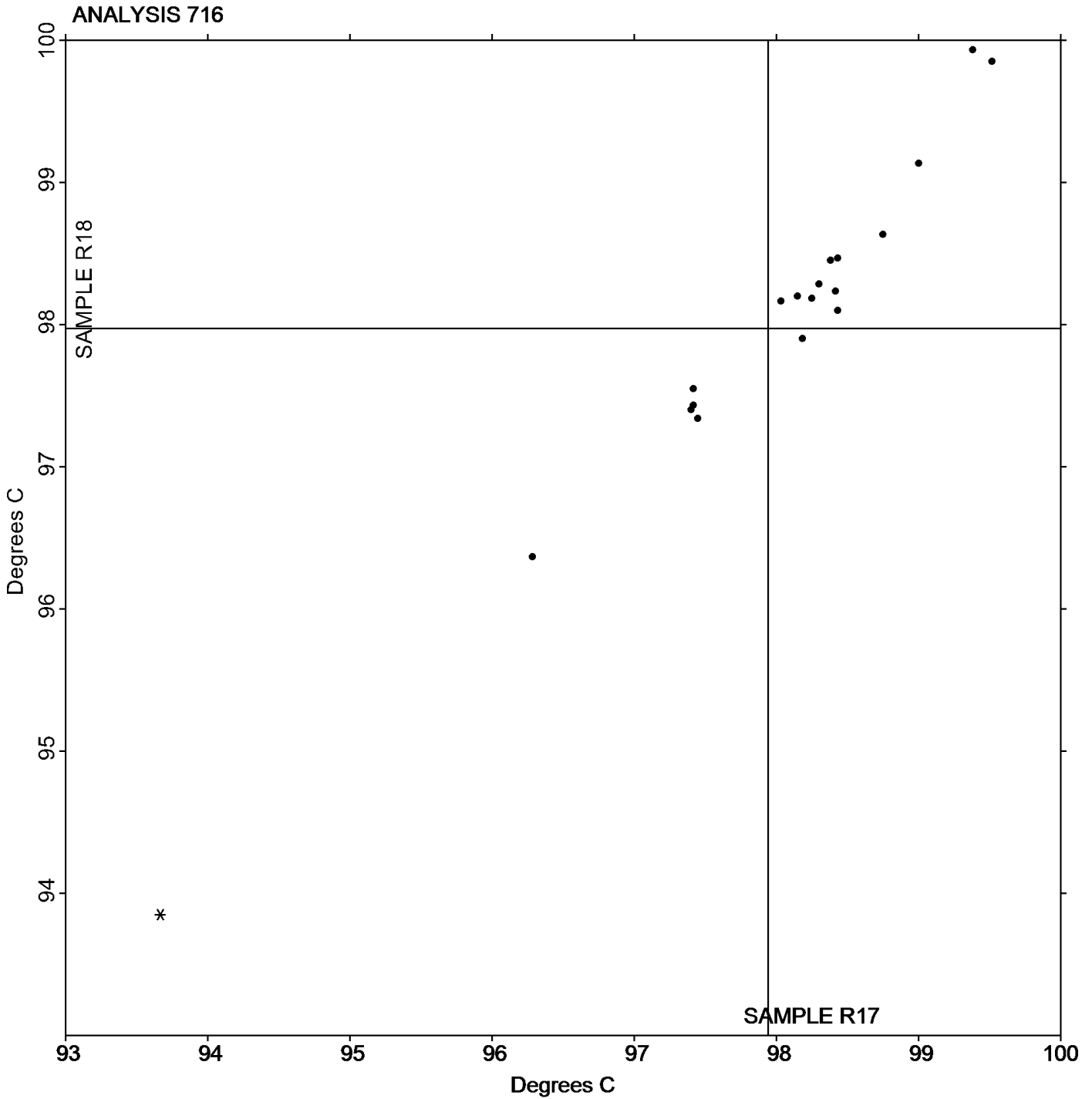
Report #138

Analysis 716

2nd Qtr 2026

Vicat Softening Temperature (Rate B)

Grand Mean Sample R17: 97.940 Degrees C Grand Mean Sample R18: 97.972 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

Report #138

Analysis 718

2nd Qtr 2026

Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T17			Sample T18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
292CQY		1.04377	0.00183	0.92	1.04370	0.00183	0.86
2B9QX7		1.04300	0.00106	0.54	1.04267	0.00080	0.38
2MLQUY		1.03993	-0.00201	-1.02	1.04000	-0.00187	-0.88
2MLUJ4		1.04143	-0.00051	-0.26	1.04037	-0.00150	-0.70
2RY79C		1.04334	0.00140	0.71	1.04321	0.00135	0.63
2XJUW8		1.04233	0.00039	0.20	1.04267	0.00080	0.38
339QX4		1.04197	0.00003	0.01	1.04220	0.00033	0.16
3P66VE		1.04383	0.00189	0.96	1.04297	0.00110	0.52
3QWVQE		1.04300	0.00106	0.54	1.04333	0.00147	0.69
3T4JJ4		1.04100	-0.00094	-0.48	1.04133	-0.00053	-0.25
3Z6VEZ		1.03873	-0.00321	-1.62	1.03750	-0.00437	-2.05
4EJVUK		1.04067	-0.00127	-0.64	1.04100	-0.00087	-0.41
4MD2P8		1.04300	0.00106	0.54	1.04367	0.00180	0.84
4PKHLH		1.03913	-0.00281	-1.42	1.03897	-0.00290	-1.36
4XB4RF		1.04000	-0.00194	-0.98	1.03933	-0.00253	-1.19
62QJPR		1.04090	-0.00104	-0.53	1.04170	-0.00017	-0.08
64VGAF		1.04400	0.00206	1.04	1.04367	0.00180	0.84
6GN94C		1.04477	0.00283	1.43	1.04503	0.00317	1.49
6K699D		1.04097	-0.00097	-0.49	1.04153	-0.00033	-0.16
7JBAM6		1.04163	-0.00031	-0.16	1.04087	-0.00100	-0.47
8EP63Z		1.04170	-0.00024	-0.12	1.04130	-0.00057	-0.27
8X3Y63	X	1.05000	0.00806	4.08	1.04333	0.00147	0.69
9CGBL8		1.04123	-0.00071	-0.36	1.04090	-0.00097	-0.45
AG7BFT		1.04317	0.00123	0.62	1.04330	0.00143	0.67
BK2WTW		1.04473	0.00279	1.41	1.04547	0.00360	1.69
CKZPFM		1.04100	-0.00094	-0.48	1.04100	-0.00087	-0.41
CLVWB8		1.04403	0.00209	1.06	1.04423	0.00237	1.11
CYDRKC		1.04283	0.00089	0.45	1.04333	0.00147	0.69
D8CG32		1.04217	0.00023	0.11	1.04117	-0.00070	-0.33
DDYR7P		1.04460	0.00266	1.35	1.04447	0.00260	1.22
E923AX	X	1.03667	-0.00527	-2.67	1.03867	-0.00320	-1.50
E9XHLV		1.03733	-0.00461	-2.33	1.03667	-0.00520	-2.44
E9XKBY		1.04137	-0.00057	-0.29	1.04077	-0.00110	-0.52
EQH9H9	X	1.03900	-0.00294	-1.49	1.04400	0.00213	1.00
GQVJCX		1.03867	-0.00327	-1.66	1.03877	-0.00310	-1.45



Plastics Interlaboratory Testing Program

Report #138

Analysis 718

2nd Qtr 2026

Specific Gravity - sp gr 23/23 C

WebCode	Data Flag	Sample T17			Sample T18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
J92XJ3		1.03873	-0.00321	-1.62	1.03923	-0.00263	-1.24
JAWEVZ		1.04280	0.00086	0.43	1.04283	0.00097	0.45
JPAPNT	*	1.03967	-0.00227	-1.15	1.03800	-0.00387	-1.81
JTCNYL		1.03933	-0.00261	-1.32	1.03967	-0.00220	-1.03
KUG29D		1.03887	-0.00307	-1.56	1.03970	-0.00217	-1.02
L2DUP7		1.04363	0.00169	0.86	1.04360	0.00173	0.81
LDNTNK	*	1.04160	-0.00034	-0.17	1.03960	-0.00227	-1.06
LMD9ZP	X	1.04100	-0.00094	-0.48	1.04400	0.00213	1.00
M3LLUR		1.04100	-0.00094	-0.48	1.04123	-0.00063	-0.30
M6RCDL		1.04543	0.00349	1.77	1.04497	0.00310	1.45
M8X87J		1.03973	-0.00221	-1.12	1.03903	-0.00283	-1.33
MJNRCF		1.04440	0.00246	1.24	1.04427	0.00240	1.13
N4QY6J		1.04260	0.00066	0.33	1.04320	0.00133	0.63
N9LT3K		1.04100	-0.00094	-0.48	1.04100	-0.00087	-0.41
PZ864C	*	1.03967	-0.00227	-1.15	1.04133	-0.00053	-0.25
Q787GB		1.04390	0.00196	0.99	1.04380	0.00193	0.91
QAC4ZE		1.04440	0.00246	1.24	1.04297	0.00110	0.52
QDBGKH		1.04350	0.00156	0.79	1.04317	0.00130	0.61
QHKH42		1.04220	0.00026	0.13	1.04257	0.00070	0.33
TA646A		1.04297	0.00103	0.52	1.04290	0.00103	0.48
TG7VJR		1.04000	-0.00194	-0.98	1.03900	-0.00287	-1.35
VB6T8N		1.04089	-0.00105	-0.53	1.04113	-0.00074	-0.35
VENM9U		1.04000	-0.00194	-0.98	1.03967	-0.00220	-1.03
VF38UD		1.04157	-0.00037	-0.19	1.04097	-0.00090	-0.42
VRYJH6		1.04583	0.00389	1.97	1.04553	0.00367	1.72
WDXACB		1.04437	0.00243	1.23	1.04463	0.00277	1.30
WKT4W9		1.04017	-0.00177	-0.90	1.04077	-0.00110	-0.52
WNAWZ2		1.04300	0.00106	0.54	1.04300	0.00113	0.53
WVR3X9		1.03967	-0.00227	-1.15	1.03967	-0.00220	-1.03
WZNT4K	*	1.04443	0.00249	1.26	1.04633	0.00447	2.10
X43NJG		1.04267	0.00073	0.37	1.04300	0.00113	0.53
XMWYDQ		1.03927	-0.00267	-1.35	1.03910	-0.00277	-1.30
XQDRJ6		1.04493	0.00299	1.51	1.04477	0.00290	1.36
XR6EQL		1.04300	0.00106	0.54	1.04250	0.00063	0.30
Y4EGLH		1.04267	0.00073	0.37	1.04300	0.00113	0.53



Plastics Interlaboratory Testing Program

Report #138

Analysis 718

2nd Qtr 2026

Specific Gravity - sp gr 23/23 C

Summary Statistics	<u>Sample T17</u>	<u>Sample T18</u>
Grand Means	1.041941 sp gr 23/23 C	1.041867 sp gr 23/23 C
Stnd Dev Btwn Labs	0.001976 sp gr 23/23 C	0.002131 sp gr 23/23 C
Statistics based on 66 of 70 reporting participants		

Sample T17: ABS & Sample T18: ABS

Comments on Assigned Data Flags for Test #718

- EQH9H9 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample T17.
- E923AX (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample T18.
- 8X3Y63 (X) - Data for sample T17 are high. Inconsistent within the determinations of sample T18.
- LMD9ZP (X) - Inconsistent in testing between samples.

Results by Methodology (as reported by laboratory)

Test Methodology	Sample T17			Sample T18			Labs Incl / Rpt
	<i>ABS</i>			<i>ABS</i>			
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
ASTM D792 Method A (water)	1.042197	0.001984	0.000	1.042164	0.002114	0.000	48/51
ASTM D792 Method B (not water)	1.041233	0.000000	-0.001	1.040900	0.000000	-0.001	1/1
ISO 1183	1.041261	0.001895	-0.001	1.041084	0.002085	-0.001	17/18



Plastics Interlaboratory Testing Program

Report #138

Analysis 720

2nd Qtr 2026

Flexural Modulus- ksi

WebCode	Data Flag	Sample J17			Sample J18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
292CQY		359.5	12.0	0.76	361.4	14.7	0.89
2MLQUY		334.0	-13.5	-0.85	336.0	-10.6	-0.64
2MLUJ4		360.5	13.0	0.82	363.3	16.6	1.00
2RY79C	X	28.0	-319.6	-20.25	27.7	-319.0	-19.15
2WMEJB		379.4	31.9	2.02	379.8	33.2	1.99
38HJXN		343.0	-4.5	-0.29	337.2	-9.4	-0.57
4NPZJG		343.6	-3.9	-0.25	344.0	-2.6	-0.16
4XY6W8		343.9	-3.6	-0.23	345.8	-0.8	-0.05
64VGAF		350.2	2.7	0.17	351.3	4.7	0.28
7F6J6C		351.9	4.4	0.28	355.6	9.0	0.54
7JBAM6		321.4	-26.2	-1.66	318.3	-28.4	-1.70
7LVTEA		332.5	-15.0	-0.95	332.5	-14.1	-0.85
8EP63Z		359.9	12.4	0.78	359.8	13.1	0.79
99YLA6		334.4	-13.1	-0.83	334.4	-12.3	-0.74
ABLQV2		351.4	3.8	0.24	346.7	0.1	0.00
AG7BFT		348.0	0.5	0.03	347.1	0.4	0.03
CKZPFM		336.6	-10.9	-0.69	329.7	-17.0	-1.02
CLVWB8		331.4	-16.1	-1.02	322.8	-23.8	-1.43
D8VTUZ	X	222.5	-125.0	-7.92	227.1	-119.5	-7.17
L2DUP7		352.0	4.4	0.28	349.4	2.8	0.17
LBH37Q		346.6	-0.9	-0.06	347.6	1.0	0.06
LDNTNK		343.3	-4.2	-0.27	350.5	3.9	0.23
M8X87J		328.2	-19.3	-1.23	320.4	-26.3	-1.58
NM9B6J		353.3	5.8	0.37	350.3	3.6	0.22
Q787GB		360.8	13.3	0.84	360.3	13.6	0.82
QHKH42		378.1	30.5	1.94	376.5	29.9	1.79
QKRZ3W		373.5	26.0	1.65	374.8	28.1	1.69
TA646A		330.9	-16.6	-1.05	331.1	-15.6	-0.93
TG7VJR		340.6	-6.9	-0.44	340.8	-5.8	-0.35
TJME4L	X	382.2	34.7	2.20	445.0	98.3	5.90
UADAQV		339.0	-8.5	-0.54	334.6	-12.1	-0.72
UKXACC		353.9	6.4	0.41	354.5	7.9	0.47
ULTPNA		329.5	-18.0	-1.14	332.9	-13.7	-0.82
VRYJH6		315.0	-32.5	-2.06	315.0	-31.6	-1.90
WDXACB		346.6	-0.9	-0.06	340.4	-6.3	-0.38



Plastics Interlaboratory Testing Program

Report #138

Analysis 720

2nd Qtr 2026

Flexural Modulus- ksi

WebCode	Data Flag	Sample J17			Sample J18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
WK93ED	X	446.1	98.6	6.25	446.6	100.0	6.00
WNAWZ2		362.3	14.8	0.94	361.4	14.8	0.89
WRTQ29		370.3	22.8	1.44	370.8	24.1	1.45
X2RF3P	X	383.7	36.2	2.29	372.4	25.8	1.55
X43NJG		363.8	16.2	1.03	363.2	16.5	0.99
XMWYDQ		326.1	-21.4	-1.36	327.1	-19.6	-1.17
ZZUMKB		363.1	15.5	0.98	358.3	11.7	0.70

Summary Statistics		
	Sample J17	Sample J18
Grand Means	347.53 ksi	346.63 ksi
Std Dev Btwn Labs	15.78 ksi	16.66 ksi
Statistics based on 37 of 42 reporting participants		

Sample J17: ABS & Sample J18: ABS

Comments on Assigned Data Flags for Test #720

- D8VTUZ (X) - Data for both samples are low. Possible Systematic Error.
- X2RF3P (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample J17.
- TJME4L (X) - Data for sample J18 are high.
- 2RY79C (X) - Extreme data.
- WK93ED (X) - Data for both samples are high. Possible Systematic Error.

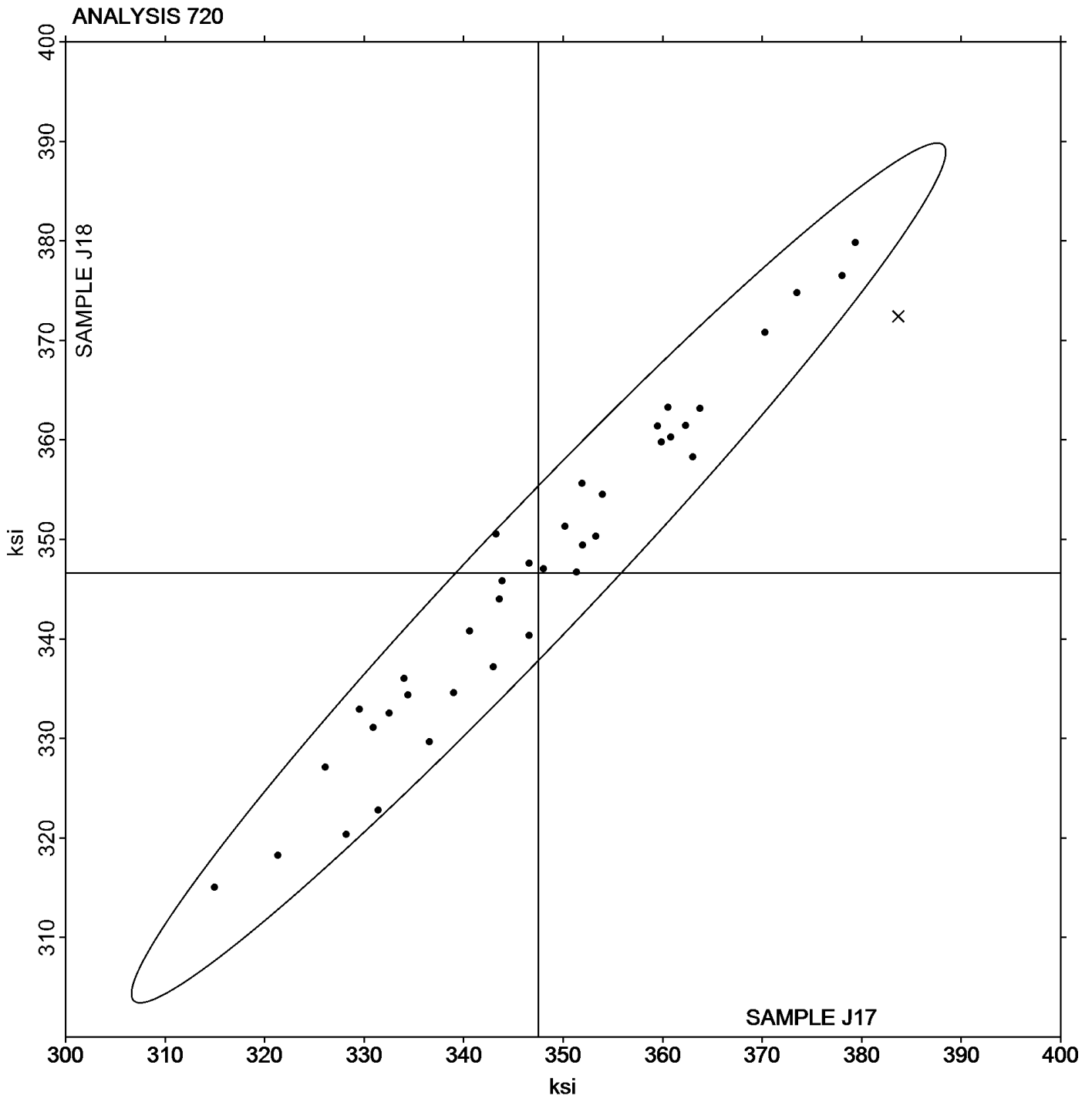


Plastics Interlaboratory Testing Program

Analysis 720 Flexural Modulus- ksi

Report #138
2nd Qtr 2026

Grand Mean Sample J17: 347.53 ksi Grand Mean Sample J18: 346.63 ksi





Plastics Interlaboratory Testing Program

Report #138

Analysis 721

2nd Qtr 2026

Flexural Stress at 5% Strain - psi

WebCode	Data Flag	Sample J17			Sample J18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2MLUJ4		8,826	-764	-2.54	8,786	-801	-2.55
2RY79C		9,252	-339	-1.12	9,144	-443	-1.41
2WMEJB	X	10,960	1,369	4.55	10,940	1,353	4.31
38HJXN	X	10,440	849	2.82	10,080	493	1.57
4NPZJG		9,398	-193	-0.64	9,412	-175	-0.56
4XY6W8		9,542	-49	-0.16	9,579	-8	-0.03
64VGAF		9,475	-116	-0.38	9,512	-75	-0.24
7F6J6C		10,159	568	1.89	10,197	610	1.94
7JBAM6		9,247	-344	-1.14	9,176	-411	-1.31
7LVTEA		9,758	167	0.56	9,711	124	0.40
99YLA6		9,666	76	0.25	9,673	86	0.27
ABLQV2		9,805	214	0.71	9,776	189	0.60
AG7BFT		9,737	146	0.49	9,718	131	0.42
CKZPFM		9,409	-182	-0.60	9,274	-313	-1.00
CLVWB8		10,062	471	1.56	10,040	453	1.44
D8VTUZ		9,146	-445	-1.48	9,167	-420	-1.34
L2DUP7		9,742	152	0.50	9,784	197	0.63
LBH37Q		9,814	223	0.74	9,868	281	0.89
LDNTNK		9,305	-286	-0.95	9,395	-192	-0.61
M8X87J		9,327	-263	-0.87	9,368	-219	-0.70
NM9B6J		9,575	-16	-0.05	9,524	-63	-0.20
Q787GB		9,821	230	0.76	9,738	151	0.48
QHKH42		9,593	2	0.01	9,652	65	0.21
QKRZ3W		10,135	545	1.81	10,170	583	1.86
TA646A		9,951	361	1.20	9,888	301	0.96
TG7VJR		9,703	112	0.37	9,687	100	0.32
TJME4L	X	9,993	402	1.34	11,147	1,560	4.97
UADAQV		9,639	49	0.16	9,692	104	0.33
UKXACC		9,379	-212	-0.70	9,349	-238	-0.76
ULTPNA		9,658	68	0.22	9,631	44	0.14
VRYJH6		9,457	-134	-0.44	9,402	-185	-0.59
WDXACB		9,514	-77	-0.25	9,631	44	0.14
WK93ED	X	11,870	2,279	7.57	11,882	2,295	7.31
WRTQ29		9,852	261	0.87	9,860	273	0.87
XMWYDQ		9,175	-416	-1.38	9,165	-422	-1.34



Plastics Interlaboratory Testing Program

Report #138

Analysis 721

2nd Qtr 2026

Flexural Stress at 5% Strain - psi

WebCode	Data Flag	Sample J17			Sample J18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
ZZUMKB		9,777	186	0.62	9,818	231	0.74

Summary Statistics			
	Sample J17		Sample J18
Grand Means	9,590.5 psi		9,587.1 psi
Stnd Dev Btwn Labs	301.3 psi		314.0 psi
Statistics based on 32 of 36 reporting participants			

Sample J17: ABS & Sample J18: ABS

Comments on Assigned Data Flags for Test #721

- 2WMEJB (X) - Data for both samples are high. Possible Systematic Error.
- 38HJXN (X) - Data for sample J17 are high. Inconsistent within the determinations of sample J17.
- TJME4L (X) - Data for sample J18 are high.
- WK93ED (X) - Data for both samples are high. Possible Systematic Error.



Plastics Interlaboratory Testing Program

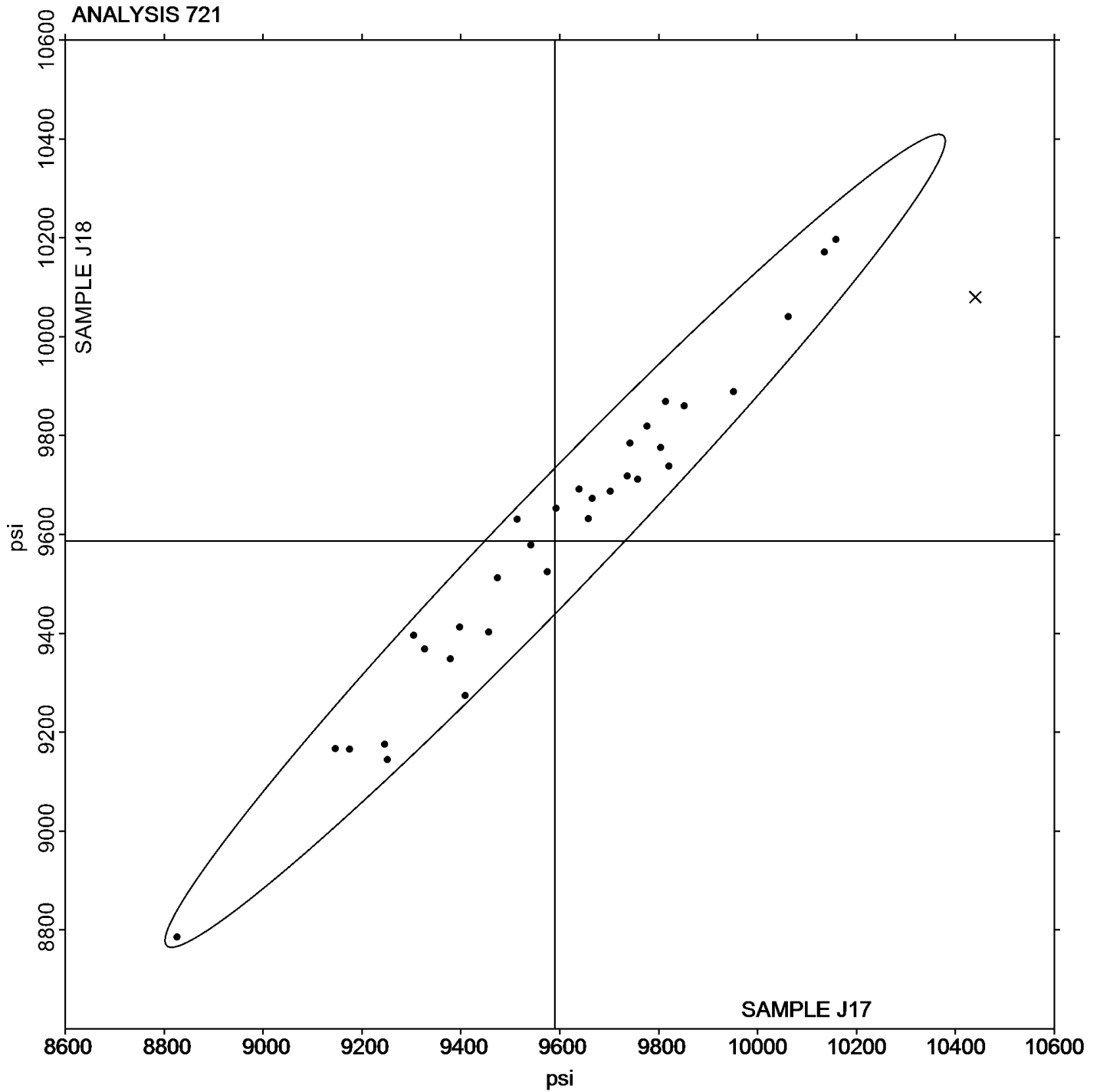
Report #138

Analysis 721

2nd Qtr 2026

Flexural Stress at 5% Strain - psi

Grand Mean Sample J17: 9,590.50 psi Grand Mean Sample J18: 9,587.06 psi





Plastics Interlaboratory Testing Program

Report #138

Analysis 722

2nd Qtr 2026

Flexural Stress at Yield - psi

WebCode	Data Flag	Sample J17			Sample J18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
292CQY		9,582	-72	-0.17	9,627	-22	-0.05
2MLQUY		9,583	-71	-0.17	9,626	-23	-0.05
2MLUJ4		8,927	-727	-1.75	8,911	-739	-1.75
2RY79C		9,238	-416	-1.00	9,156	-493	-1.17
2WMEJB	*	11,020	1,366	3.29	11,000	1,351	3.21
38HJXN	X	10,480	826	1.99	10,140	491	1.16
4NPZJG		9,475	-179	-0.43	9,490	-160	-0.38
4XY6W8		9,589	-65	-0.16	9,624	-25	-0.06
64VGAF		9,541	-113	-0.27	9,578	-71	-0.17
7F6J6C		10,238	584	1.41	10,270	621	1.47
7JBAM6		9,249	-405	-0.98	9,157	-493	-1.17
7LVTEA		9,798	144	0.35	9,764	115	0.27
99YLA6		9,708	54	0.13	9,704	55	0.13
ABLQV2		9,863	209	0.50	9,805	155	0.37
AG7BFT		9,752	98	0.24	9,737	88	0.21
CKZPFM		9,292	-362	-0.87	9,150	-500	-1.19
CLVWB8		10,110	456	1.10	10,078	429	1.02
D8VTUZ		9,181	-474	-1.14	9,270	-379	-0.90
L2DUP7		9,738	84	0.20	9,781	132	0.31
LBH37Q		9,832	178	0.43	9,876	227	0.54
M8X87J		8,837	-817	-1.97	8,898	-751	-1.78
NM9B6J		9,641	-13	-0.03	9,575	-74	-0.18
Q787GB		9,847	193	0.47	9,768	119	0.28
QKRZ3W		10,202	548	1.32	10,240	591	1.40
TA646A		9,957	303	0.73	9,898	249	0.59
TJME4L	X	10,043	389	0.94	11,226	1,577	3.74
UADAQV		9,700	46	0.11	9,750	100	0.24
UKXACC		9,436	-218	-0.53	9,418	-232	-0.55
ULTPNA		9,674	20	0.05	9,660	11	0.03
VRYJH6		9,483	-171	-0.41	9,435	-214	-0.51
WDXACB		9,554	-100	-0.24	9,665	16	0.04
WRTQ29		9,894	240	0.58	9,917	268	0.64
X2RF3P	X	17,692	8,038	19.39	17,418	7,769	18.43
XMWYDQ		9,160	-494	-1.19	9,087	-562	-1.33
ZZUMKB		9,831	177	0.43	9,861	212	0.50



Plastics Interlaboratory Testing Program

Report #138

Analysis 722

2nd Qtr 2026

Flexural Stress at Yield - psi

Summary Statistics	<u>Sample J17</u>	<u>Sample J18</u>
Grand Means	9,654.0 psi	9,649.3 psi
Stnd Dev Btwn Labs	414.6 psi	421.4 psi
Statistics based on 32 of 35 reporting participants		

Sample J17: ABS & Sample J18: ABS

Comments on Assigned Data Flags for Test #722

- 38HJXN (X) - Inconsistent in testing between samples.
- X2RF3P (X) - Extreme data.
- TJME4L (X) - Data for sample J18 are high.



Plastics Interlaboratory Testing Program

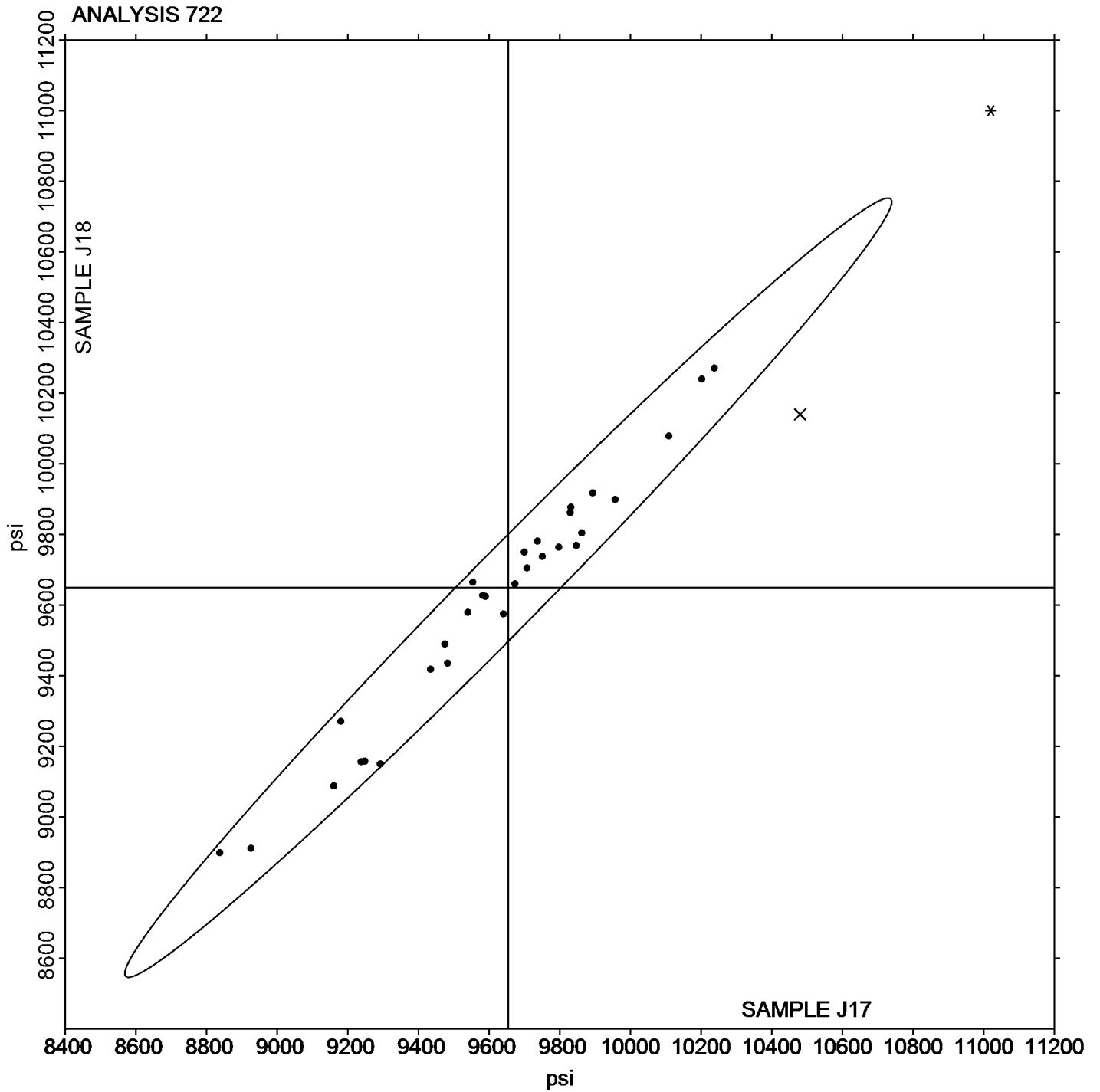
Analysis 722

Flexural Stress at Yield - psi

Report #138

2nd Qtr 2026

Grand Mean Sample J17: 9,654.05 psi Grand Mean Sample J18: 9,649.28 psi





Plastics Interlaboratory Testing Program

Report #138

Analysis 730

2nd Qtr 2026

Tensile Stress at Yield - MPa

WebCode	Data Flag	Sample C17			Sample C18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2B9QX7		41.61	-0.84	-1.08	41.48	-1.05	-1.24
2MLQUY		43.20	0.74	0.95	43.13	0.60	0.70
2MLUJ4		42.25	-0.20	-0.26	42.07	-0.46	-0.54
2RY79C		41.32	-1.14	-1.46	41.28	-1.25	-1.48
2XJUW8		42.30	-0.16	-0.20	42.03	-0.50	-0.59
38PWWY		42.14	-0.32	-0.41	42.46	-0.07	-0.08
3Z6VEZ		42.71	0.26	0.33	42.82	0.29	0.34
4EJVUK		41.64	-0.82	-1.05	41.20	-1.33	-1.57
4MD2P8		43.65	1.19	1.53	43.94	1.41	1.67
4PKHLH		42.98	0.53	0.67	42.85	0.32	0.38
64VGAF		42.26	-0.19	-0.25	42.14	-0.39	-0.47
6KNJZC	X	45.49	3.04	3.90	46.08	3.55	4.20
8EP63Z		41.84	-0.61	-0.79	41.99	-0.54	-0.63
8X3Y63		42.96	0.50	0.65	42.70	0.17	0.20
9CGBL8		42.95	0.50	0.64	43.00	0.47	0.56
9FHR7B		41.72	-0.73	-0.94	42.02	-0.51	-0.60
9KVXXW		43.14	0.68	0.88	43.39	0.86	1.01
BCCEQ3		42.96	0.50	0.65	43.18	0.65	0.77
CYDRKC		42.80	0.34	0.44	43.06	0.53	0.63
E9XHLV		42.86	0.41	0.52	43.02	0.49	0.58
GMC PBQ		42.00	-0.46	-0.59	42.40	-0.13	-0.15
HMLJJG		43.24	0.78	1.00	43.41	0.88	1.04
J92XJ3	*	40.80	-1.66	-2.13	40.31	-2.22	-2.62
JL9A4P		42.33	-0.12	-0.16	42.24	-0.29	-0.35
JPAPNT		43.78	1.32	1.70	44.03	1.50	1.77
KUG29D		41.60	-0.86	-1.10	41.85	-0.68	-0.80
L2DUP7		42.74	0.28	0.36	42.77	0.24	0.28
LDKZFX		42.37	-0.08	-0.11	42.49	-0.04	-0.05
M6RCDL		42.56	0.10	0.13	42.60	0.07	0.09
N9LT3K		41.78	-0.68	-0.87	42.18	-0.35	-0.41
NY3RUK		42.36	-0.09	-0.12	42.71	0.18	0.21
P3GLAH		42.41	-0.05	-0.06	42.18	-0.35	-0.41
Q787GB		42.82	0.36	0.46	42.70	0.17	0.20
QBMBF7	X	46.72	4.26	5.47	46.44	3.91	4.62
QHKH42		42.29	-0.17	-0.22	42.37	-0.16	-0.18



Plastics Interlaboratory Testing Program

Report #138

Analysis 730

2nd Qtr 2026

Tensile Stress at Yield - MPa

WebCode	Data Flag	Sample C17			Sample C18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
RQEV8E		42.80	0.34	0.44	42.69	0.16	0.19
TA646A		42.25	-0.21	-0.27	41.66	-0.87	-1.03
ULTPNA	*	40.30	-2.16	-2.77	40.18	-2.35	-2.78
UZAK47	*	44.02	1.56	2.01	43.41	0.88	1.03
V9JAFJ		42.94	0.48	0.62	43.20	0.67	0.79
VENM9U		42.69	0.23	0.30	42.91	0.38	0.45
VF38UD		43.61	1.16	1.49	43.64	1.11	1.31
VZ98V4		42.85	0.39	0.50	42.93	0.40	0.48
WK93ED	X	50.28	7.82	10.04	48.32	5.79	6.84
WKT4W9	*	43.73	1.28	1.64	44.50	1.97	2.33
WNAWZ2		42.27	-0.19	-0.24	42.65	0.12	0.14
WVR3X9	X	46.94	4.48	5.75	46.96	4.43	5.24
X43NJG		41.90	-0.56	-0.71	42.14	-0.39	-0.46
XMWYDQ		41.28	-1.17	-1.51	41.84	-0.69	-0.81
XR6EQL		42.74	0.28	0.36	42.78	0.25	0.30
XR98W2		41.07	-1.39	-1.78	41.56	-0.97	-1.15
Y4EGLH		43.04	0.58	0.75	43.42	0.89	1.05
ZWYVGK		42.49	0.04	0.05	42.43	-0.10	-0.12

Summary Statistics		
	Sample C17	Sample C18
Grand Means	42.456 MPa	42.530 MPa
Std Dev Btwn Labs	0.779 MPa	0.846 MPa
Statistics based on 49 of 53 reporting participants		

Sample C17: ABS & Sample C18: ABS

Comments on Assigned Data Flags for Test #730

- 6KNJZC (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample C17.
- WVR3X9 (X) - Data for both samples are high. Possible Systematic Error.
- QBMF7 (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample C18.
- WK93ED (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample C18.



Plastics Interlaboratory Testing Program

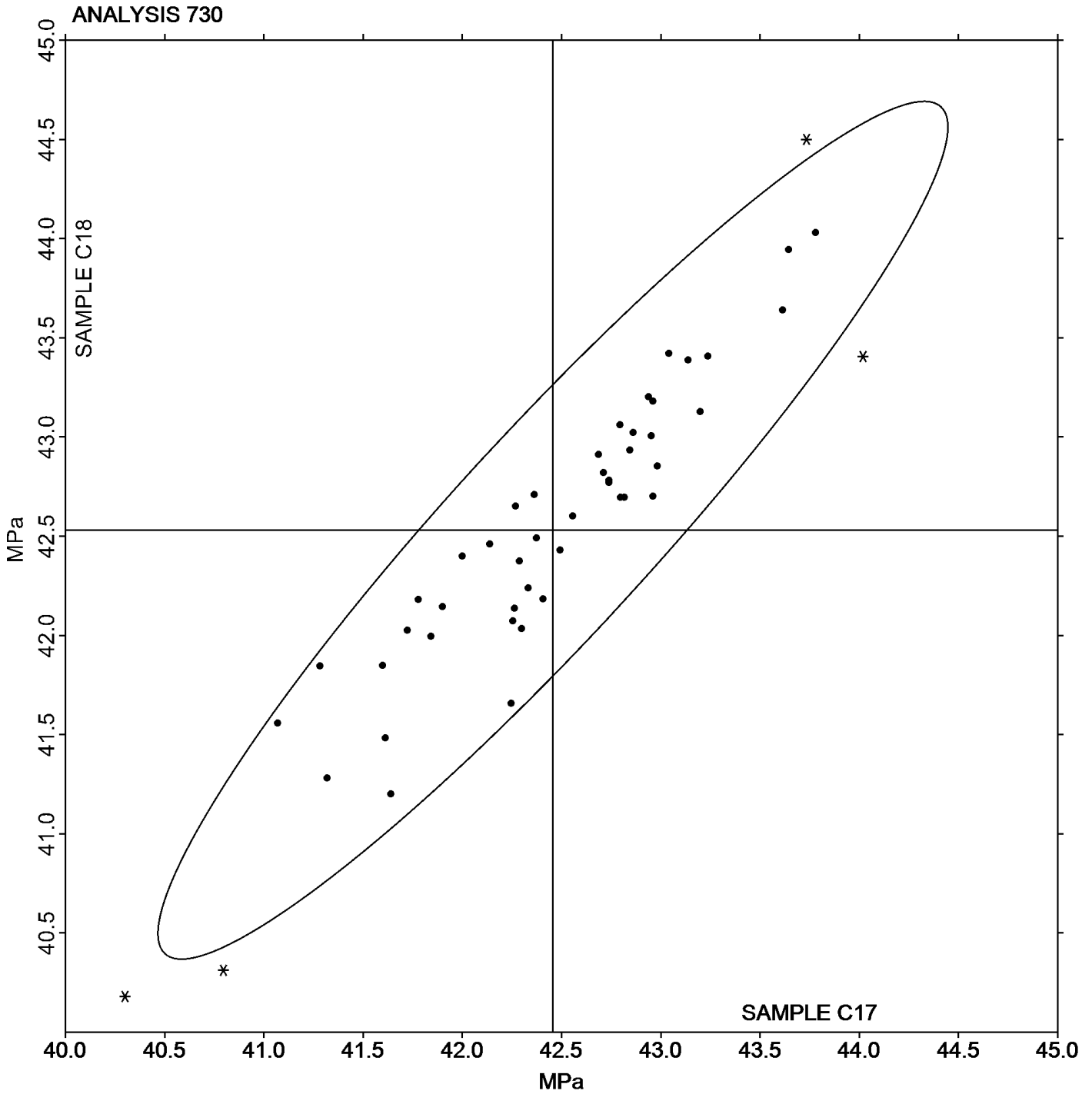
Analysis 730

Tensile Stress at Yield - MPa

Report #138

2nd Qtr 2026

Grand Mean Sample C17: 42.456 MPa Grand Mean Sample C18: 42.530 MPa





Plastics Interlaboratory Testing Program

Report #138

Analysis 731

2nd Qtr 2026

Tensile Stress at Break - MPa

WebCode	Data Flag	Sample C17			Sample C18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2B9QX7		31.47	-0.20	-0.12	30.63	-0.87	-0.53
2MLUJ4		30.22	-1.44	-0.89	30.65	-0.86	-0.52
2RY79C		29.70	-1.96	-1.22	29.34	-2.16	-1.31
2XJUW8		34.98	3.32	2.06	35.20	3.70	2.25
38PWVY		30.36	-1.30	-0.81	30.80	-0.70	-0.43
4EJVUK		32.74	1.08	0.67	32.82	1.32	0.80
4MD2P8		31.97	0.31	0.19	32.11	0.60	0.37
4PKHLH		31.14	-0.53	-0.33	30.88	-0.62	-0.38
64VGAF		30.12	-1.55	-0.96	29.52	-1.98	-1.20
6KNJZC	*	35.96	4.30	2.67	35.00	3.50	2.12
8EP63Z		30.28	-1.38	-0.86	30.39	-1.11	-0.67
8X3Y63		31.07	-0.59	-0.36	30.61	-0.89	-0.54
9CGBL8		31.20	-0.46	-0.29	31.24	-0.26	-0.16
9FHR7B		30.89	-0.77	-0.48	30.92	-0.58	-0.35
9KVXXW		32.05	0.39	0.24	31.80	0.30	0.18
BCCEQ3		30.78	-0.88	-0.55	30.94	-0.56	-0.34
CYDRKC		30.66	-1.00	-0.62	31.49	-0.01	-0.01
E9XHLV		33.92	2.26	1.40	33.68	2.18	1.32
GMCPBQ		31.04	-0.62	-0.39	30.32	-1.18	-0.72
HMLJJG		31.09	-0.57	-0.36	31.31	-0.19	-0.12
J92XJ3	X	37.05	5.39	3.34	38.03	6.52	3.96
JL9A4P		32.47	0.81	0.50	32.68	1.18	0.72
JPAPNT		30.99	-0.67	-0.42	31.61	0.11	0.06
KUG29D		29.14	-2.52	-1.56	28.76	-2.74	-1.67
L2DUP7		30.89	-0.77	-0.48	30.84	-0.67	-0.40
LDKZFX		30.48	-1.18	-0.73	30.76	-0.75	-0.45
M6RCDL		34.18	2.52	1.56	33.13	1.63	0.99
N9LT3K	X	30.62	-1.04	-0.65	35.22	3.72	2.26
NY3RUK		30.58	-1.08	-0.67	31.08	-0.42	-0.26
P3GLAH		30.67	-0.99	-0.62	30.27	-1.24	-0.75
Q787GB		30.62	-1.05	-0.65	30.30	-1.20	-0.73
QBMBF7		34.92	3.26	2.02	34.00	2.50	1.52
QHKH42		30.58	-1.08	-0.67	30.68	-0.82	-0.50
RQEV8E		31.71	0.05	0.03	31.88	0.38	0.23
TA646A	*	32.62	0.96	0.60	30.43	-1.07	-0.65



Plastics Interlaboratory Testing Program

Report #138

Analysis 731

2nd Qtr 2026

Tensile Stress at Break - MPa

WebCode	Data Flag	Sample C17			Sample C18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
ULTPNA		33.10	1.44	0.89	31.68	0.18	0.11
UZAK47		32.41	0.75	0.47	33.64	2.14	1.30
V9JAFJ		31.06	-0.60	-0.37	31.03	-0.47	-0.29
VENM9U		33.66	2.00	1.24	33.62	2.12	1.29
VF38UD		32.84	1.18	0.73	32.40	0.90	0.54
WK93ED	X	38.22	6.56	4.07	35.84	4.34	2.63
WKT4W9		32.19	0.52	0.33	32.94	1.44	0.87
WVR3X9		34.87	3.21	1.99	35.08	3.58	2.17
XMWYDQ	*	29.19	-2.47	-1.53	27.51	-3.99	-2.42
XR6EQL		30.92	-0.74	-0.46	30.34	-1.16	-0.71
XR98W2	X	38.03	6.37	3.95	36.71	5.21	3.16
Y4EGLH		31.26	-0.40	-0.25	31.83	0.33	0.20
ZWYVGK		30.12	-1.54	-0.96	29.98	-1.52	-0.93

Summary Statistics		
	Sample C17	Sample C18
Grand Means	31.662 MPa	31.503 MPa
Std Dev Btwn Labs	1.613 MPa	1.647 MPa
Statistics based on 44 of 48 reporting participants		

Sample C17: ABS & Sample C18: ABS

Comments on Assigned Data Flags for Test #731

- N9LT3K (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample C18.
- XR98W2 (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample C18.
- J92XJ3 (X) - Data for both samples are high. Possible Systematic Error.
- WK93ED (X) - Data for sample C17 are high.



Plastics Interlaboratory Testing Program

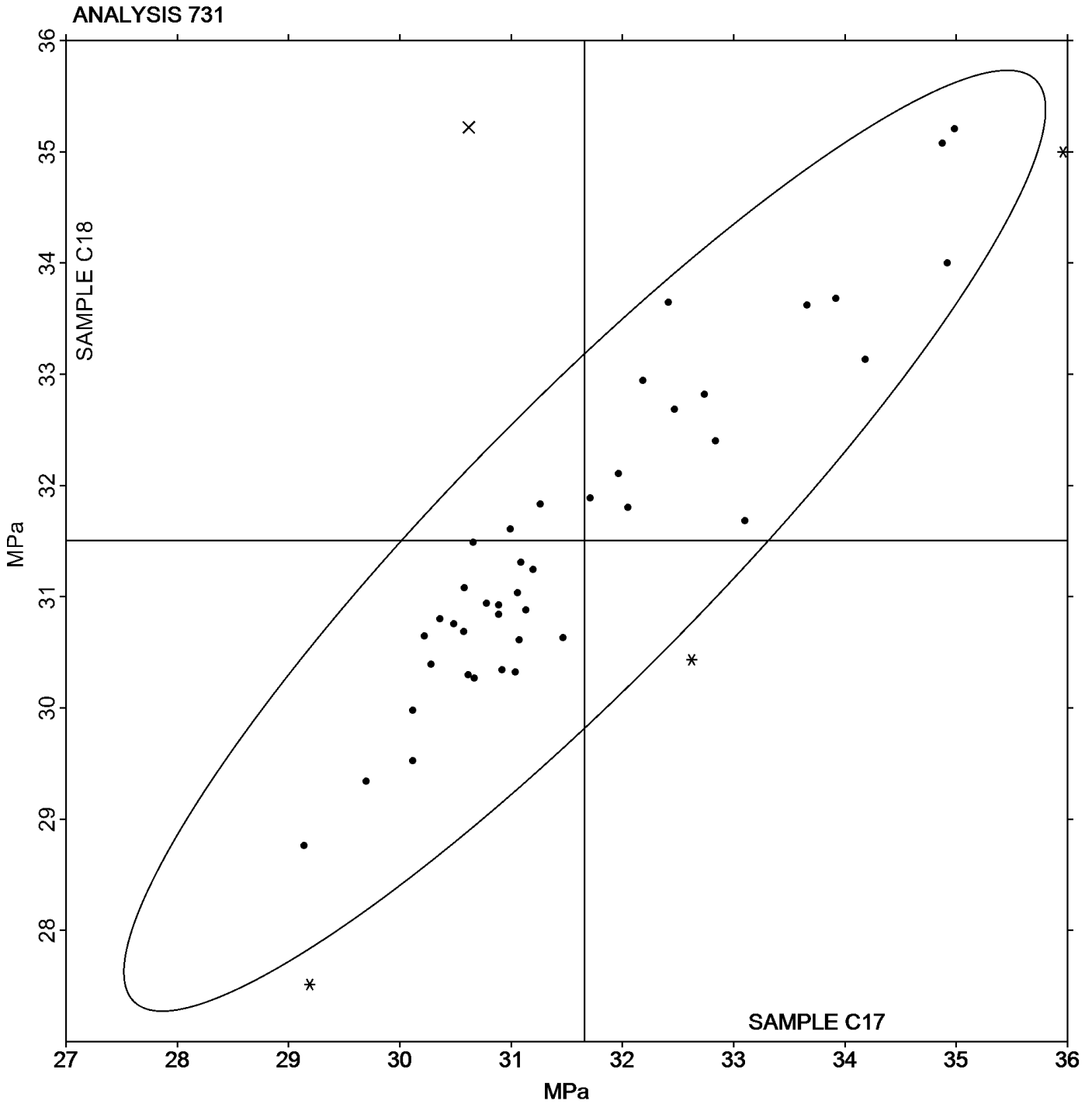
Analysis 731

Tensile Stress at Break - MPa

Report #138

2nd Qtr 2026

Grand Mean Sample C17: 31.662 MPa Grand Mean Sample C18: 31.503 MPa





Plastics Interlaboratory Testing Program

Report #138

Analysis 732

2nd Qtr 2026

Percent Strain at Yield

WebCode	Data Flag	Sample C17			Sample C18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2B9QX7		2.064	-0.257	-1.73	2.112	-0.219	-1.47
2MLQUY		2.272	-0.049	-0.33	2.256	-0.075	-0.51
2MLUJ4		2.350	0.029	0.20	2.348	0.017	0.11
2RY79C		2.288	-0.033	-0.22	2.334	0.003	0.02
2XJUW8	*	2.788	0.467	3.15	2.786	0.455	3.05
38PWWY		2.280	-0.041	-0.27	2.300	-0.031	-0.21
4EJVUK		2.348	0.027	0.19	2.398	0.067	0.45
4MD2P8		2.458	0.137	0.93	2.482	0.151	1.01
4PKHLH	X	2.771	0.451	3.04	2.971	0.640	4.30
64VGAF		2.352	0.031	0.21	2.346	0.015	0.10
8EP63Z		2.260	-0.061	-0.41	2.244	-0.087	-0.59
8X3Y63		2.367	0.047	0.32	2.354	0.023	0.15
9CGBL8		2.358	0.037	0.25	2.356	0.025	0.16
9FHR7B		2.180	-0.140	-0.95	2.263	-0.068	-0.46
9KVXXW		2.284	-0.037	-0.25	2.288	-0.043	-0.29
BCCEQ3		2.300	-0.021	-0.14	2.300	-0.031	-0.21
CYDRKC		2.346	0.025	0.17	2.350	0.019	0.12
E9XHLV		2.204	-0.117	-0.79	2.218	-0.113	-0.76
GMCPBQ		2.660	0.339	2.29	2.680	0.349	2.34
HMLJJG		2.270	-0.051	-0.34	2.294	-0.037	-0.25
JL9A4P		2.330	0.009	0.06	2.276	-0.055	-0.37
JPAPNT		2.390	0.069	0.47	2.392	0.061	0.41
KUG29D		2.288	-0.033	-0.22	2.310	-0.022	-0.15
L2DUP7		2.330	0.009	0.06	2.320	-0.011	-0.08
LDKZFX		2.458	0.137	0.93	2.454	0.123	0.82
M6RCDL		2.272	-0.049	-0.33	2.267	-0.065	-0.43
N9LT3K		2.220	-0.101	-0.68	2.260	-0.071	-0.48
NY3RUK		2.398	0.077	0.52	2.396	0.065	0.43
P3GLAH		2.354	0.033	0.23	2.398	0.067	0.45
Q787GB	*	2.286	-0.035	-0.23	2.392	0.061	0.41
QBMBF7		2.538	0.217	1.47	2.522	0.191	1.28
QHKH42		2.272	-0.049	-0.33	2.300	-0.031	-0.21
RQEV8E		2.262	-0.059	-0.39	2.280	-0.051	-0.35
TA646A		2.284	-0.037	-0.25	2.254	-0.077	-0.52
ULTPNA		2.082	-0.239	-1.61	2.090	-0.241	-1.62



Plastics Interlaboratory Testing Program

Report #138

Analysis 732

2nd Qtr 2026

Percent Strain at Yield

WebCode	Data Flag	Sample C17			Sample C18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
UZAK47		2.152	-0.169	-1.14	2.157	-0.174	-1.17
V9JAFJ		2.084	-0.237	-1.60	2.076	-0.255	-1.72
VENM9U		2.160	-0.161	-1.08	2.180	-0.151	-1.02
VF38UD		2.280	-0.041	-0.27	2.240	-0.091	-0.61
WK93ED		2.402	0.081	0.55	2.404	0.073	0.49
WKT4W9	*	2.645	0.324	2.19	2.694	0.363	2.44
WVR3X9		2.338	0.017	0.12	2.330	-0.001	-0.01
XMWYDQ		2.334	0.013	0.09	2.322	-0.009	-0.06
XR6EQL		2.420	0.099	0.67	2.400	0.069	0.46
XR98W2		1.978	-0.343	-2.31	1.990	-0.341	-2.29
Y4EGLH		2.406	0.086	0.58	2.479	0.148	0.99
ZWYVGK		2.352	0.031	0.21	2.356	0.025	0.16

Summary Statistics		
	Sample C17	Sample C18
Grand Means	2.3205 Percent	2.3315 Percent
Std Dev Btwn Labs	0.1482 Percent	0.1489 Percent
Statistics based on 46 of 47 reporting participants		

Sample C17: ABS & Sample C18: ABS

Comments on Assigned Data Flags for Test #732

4PKHLH (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of both samples.

Results by Methodology (as reported by laboratory)

Test Methodology	Sample C17 <i>ABS</i>			Sample C18 <i>ABS</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
contact extensometer to measure elongation	2.2931	0.1117	-0.027	2.3004	0.1084	-0.031	35/36
crosshead deflection/movement	2.5245	0.1896	0.204	2.5487	0.1755	0.217	5/5
video extensometer	2.2595	0.1239	-0.061	2.2585	0.1256	-0.073	4/4

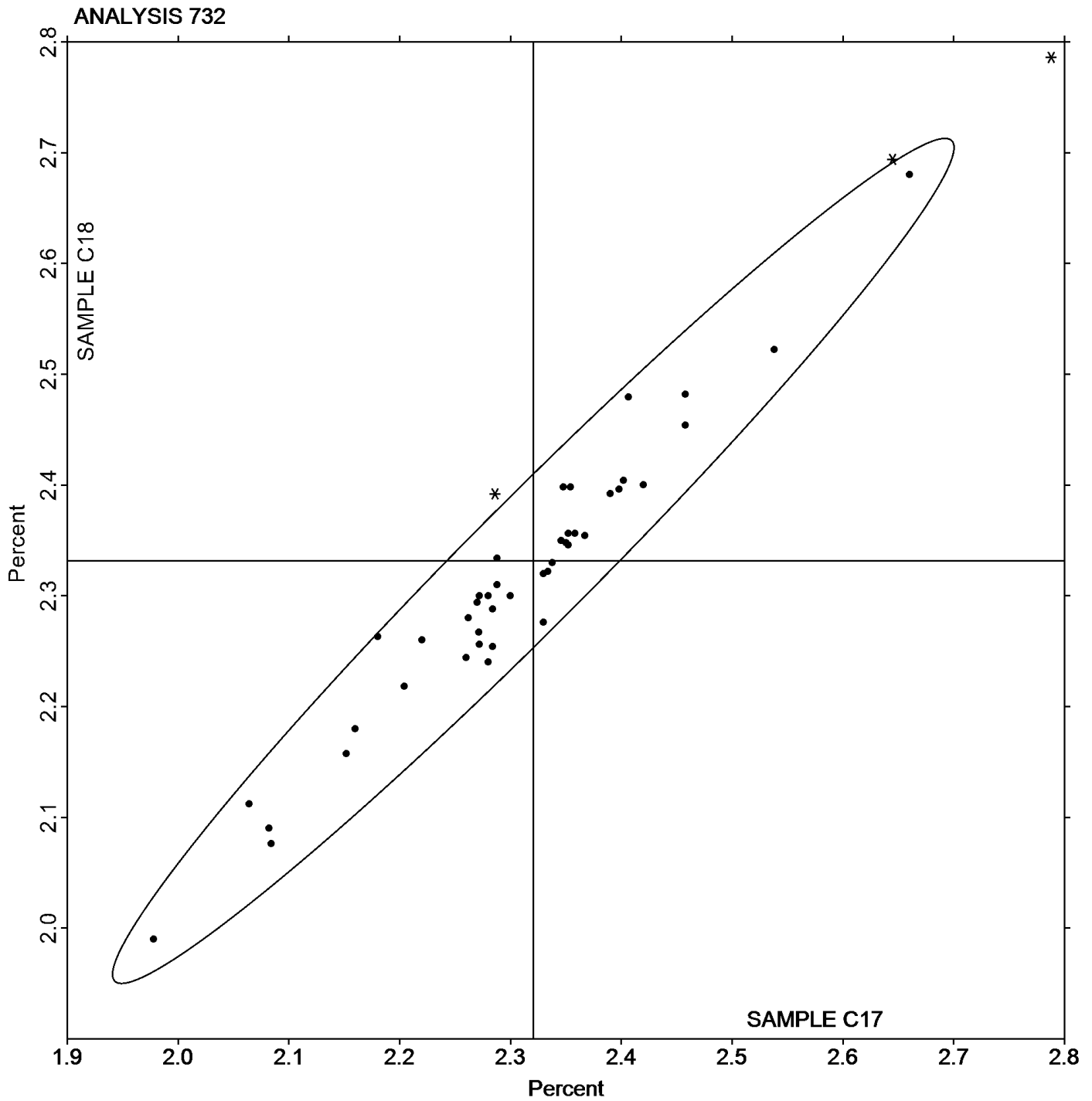


Plastics Interlaboratory Testing Program

Analysis 732 Percent Strain at Yield

Report #138
2nd Qtr 2026

Grand Mean Sample C17: 2.3205 Percent Grand Mean Sample C18: 2.3315 Percent





Plastics Interlaboratory Testing Program

Report #138

Analysis 734

2nd Qtr 2026

Modulus of Elasticity - MPa

WebCode	Data Flag	Sample C17			Sample C18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2B9QX7		2,239	-65	-0.76	2,241	-55	-0.68
2MLQUY		2,308	5	0.05	2,289	-7	-0.09
2MLUJ4		2,229	-74	-0.87	2,273	-24	-0.30
2RY79C		2,214	-89	-1.05	2,220	-76	-0.95
2XJUW8		2,309	6	0.07	2,245	-51	-0.63
38PWWY		2,295	-9	-0.10	2,286	-10	-0.13
4EJVUK		2,214	-89	-1.05	2,176	-120	-1.49
4MD2P8		2,178	-125	-1.48	2,164	-133	-1.65
4PKHLH	X	1,196	-1,107	-13.05	1,277	-1,020	-12.65
64VGAF		2,228	-75	-0.88	2,234	-63	-0.78
8EP63Z	*	2,435	132	1.56	2,480	184	2.28
8X3Y63		2,356	53	0.62	2,368	72	0.89
9CGBL8		2,158	-145	-1.71	2,173	-124	-1.53
9FHR7B		2,197	-106	-1.25	2,188	-108	-1.34
9KVXXW		2,331	28	0.32	2,331	34	0.42
BCCEQ3		2,401	97	1.15	2,397	101	1.25
CYDRKC		2,285	-18	-0.22	2,287	-9	-0.11
E9XHLV		2,466	163	1.92	2,430	133	1.65
GMCPBQ		2,342	39	0.46	2,344	48	0.59
HMLJJG		2,393	90	1.06	2,368	72	0.89
JL9A4P		2,393	90	1.06	2,321	25	0.31
JPAPNT		2,296	-7	-0.09	2,314	18	0.22
KUG29D		2,286	-17	-0.20	2,288	-8	-0.10
L2DUP7	X	2,136	-167	-1.97	2,279	-17	-0.22
LDKZFX	X	2,441	138	1.63	2,240	-56	-0.70
M6RCDL		2,316	13	0.15	2,306	9	0.11
N9LT3K		2,348	45	0.53	2,325	29	0.36
NY3RUK		2,274	-29	-0.34	2,269	-27	-0.34
P3GLAH		2,148	-155	-1.83	2,112	-184	-2.28
Q787GB		2,299	-4	-0.05	2,303	6	0.08
QBMBF7		2,480	176	2.08	2,470	174	2.15
QHKH42		2,316	13	0.15	2,298	2	0.02
TA646A		2,274	-29	-0.35	2,265	-32	-0.39
ULTPNA	*	2,392	89	1.05	2,290	-7	-0.09
UZAK47	X	2,655	351	4.14	2,600	303	3.76



Plastics Interlaboratory Testing Program

Report #138

Analysis 734

2nd Qtr 2026

Modulus of Elasticity - MPa

WebCode	Data Flag	Sample C17			Sample C18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
V9JAFJ		2,277	-26	-0.31	2,327	30	0.37
VENM9U		2,457	154	1.81	2,432	136	1.68
VF38UD		2,302	-1	-0.01	2,299	3	0.03
VZ98V4	*	2,186	-117	-1.38	2,270	-26	-0.33
WKT4W9	X	2,423	120	1.41	2,529	232	2.88
WVR3X9		2,408	105	1.23	2,392	95	1.18
XMWYDQ		2,270	-34	-0.40	2,283	-14	-0.17
XR6EQL		2,270	-33	-0.39	2,294	-2	-0.03
Y4EGLH		2,337	34	0.40	2,285	-12	-0.15
ZWYVGK		2,223	-80	-0.95	2,221	-75	-0.93

Summary Statistics		
	Sample C17	Sample C18
Grand Means	2,303.3 MPa	2,296.5 MPa
Std Dev Btwn Labs	84.8 MPa	80.6 MPa
Statistics based on 40 of 45 reporting participants		

Sample C17: ABS & Sample C18: ABS

Comments on Assigned Data Flags for Test #734

- UZAK47 (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of both samples.
- L2DUP7 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample C17.
- LDKZFX (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.
- 4PKHLH (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of both samples.
- WKT4W9 (X) - Data for sample C18 are high.



Plastics Interlaboratory Testing Program

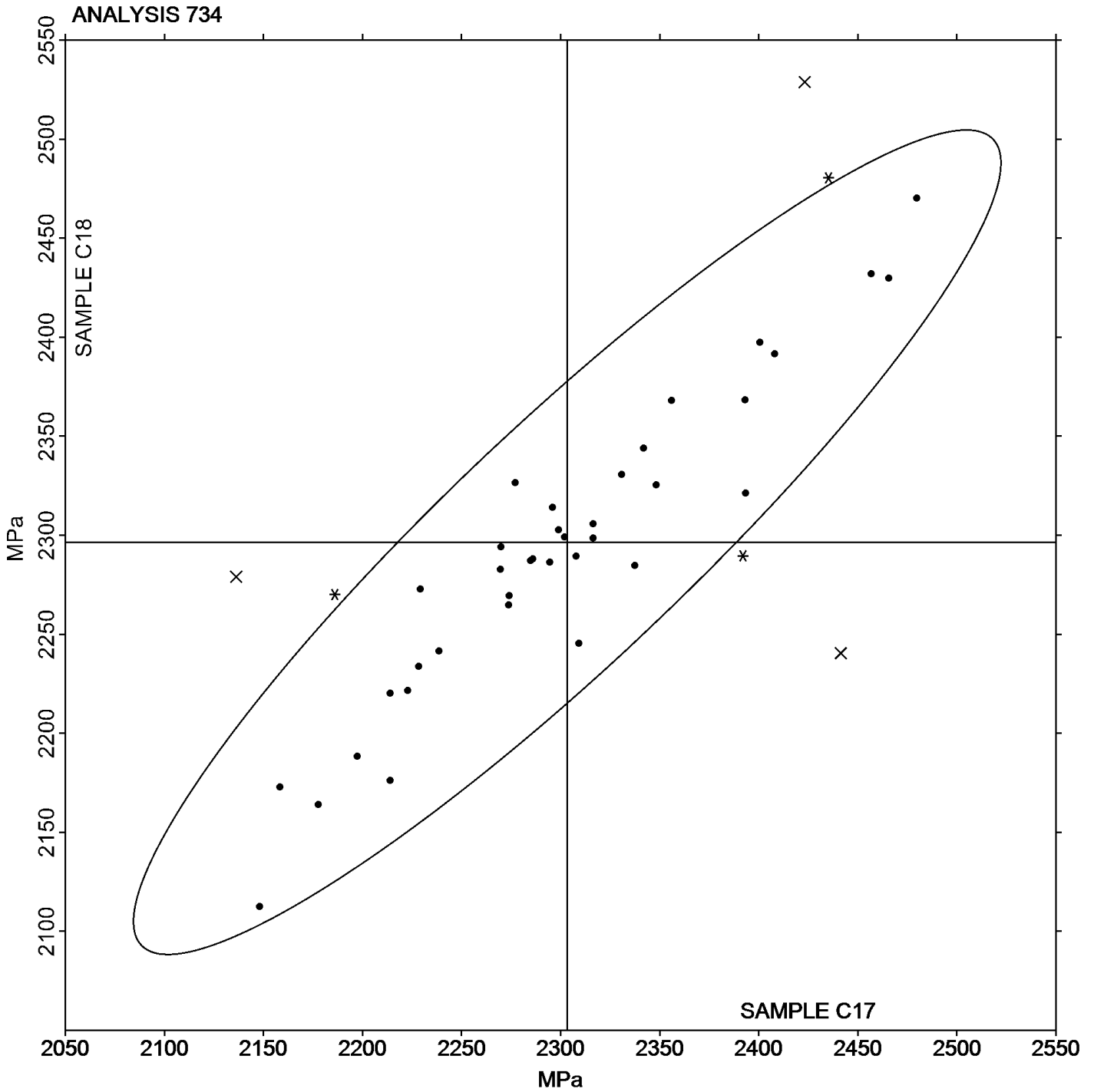
Analysis 734

Modulus of Elasticity - MPa

Report #138

2nd Qtr 2026

Grand Mean Sample C17: 2,303.30 MPa Grand Mean Sample C18: 2,296.46 MPa





Plastics Interlaboratory Testing Program

Report #138

Analysis 736

2nd Qtr 2026

Flexural Modulus - MPa

WebCode	Data Flag	Sample K17			Sample K18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2B9QX7		2,377	47	0.39	2,328	-1	0.00
2MLQUY		2,534	204	1.69	2,480	151	1.27
2MLUJ4		2,461	131	1.08	2,338	10	0.08
2RY79C		2,632	302	2.50	2,612	284	2.38
38PWWY		2,285	-45	-0.37	2,282	-46	-0.39
4PKHLH		2,237	-92	-0.76	2,227	-102	-0.85
64VGAF		2,351	22	0.18	2,358	29	0.25
8EP63Z		2,400	70	0.58	2,400	72	0.60
8X3Y63		2,237	-92	-0.76	2,249	-79	-0.66
9CGBL8		2,291	-38	-0.32	2,313	-16	-0.13
9KVXXW		2,304	-26	-0.21	2,274	-55	-0.46
BCCEQ3		2,324	-6	-0.05	2,347	18	0.15
CYDRKC		2,302	-28	-0.23	2,307	-21	-0.18
E9XHLV		2,313	-17	-0.14	2,304	-24	-0.20
HMLJJG		2,319	-11	-0.09	2,321	-8	-0.06
JL9A4P		2,441	112	0.92	2,429	101	0.85
JPAPNT		2,366	36	0.30	2,286	-42	-0.36
KUG29D		2,280	-50	-0.41	2,278	-50	-0.42
L2DUP7	*	2,326	-4	-0.03	2,489	161	1.35
LDKZFX		2,309	-21	-0.18	2,333	4	0.04
M6RCDL		2,437	107	0.88	2,394	66	0.55
N9LT3K	*	2,015	-315	-2.60	2,018	-310	-2.60
NY3RUK		2,292	-38	-0.31	2,298	-30	-0.25
Q787GB		2,383	53	0.44	2,445	117	0.98
QBMBF7	X	2,806	477	3.94	2,832	504	4.22
QHKH42		2,441	111	0.92	2,469	140	1.18
RQEV8E		2,315	-15	-0.12	2,355	27	0.22
TA646A		2,181	-148	-1.23	2,179	-149	-1.25
UZAK47		2,372	43	0.35	2,345	16	0.14
V9JAFJ		2,241	-89	-0.73	2,303	-25	-0.21
VENM9U		2,276	-54	-0.45	2,238	-90	-0.75
VF38UD		2,377	47	0.39	2,373	44	0.37
VZ98V4		2,371	41	0.34	2,335	6	0.05
WK93ED	*	2,261	-69	-0.57	2,114	-214	-1.80
WKT4W9		2,429	99	0.82	2,387	58	0.49



Plastics Interlaboratory Testing Program

Report #138

Analysis 736

2nd Qtr 2026

Flexural Modulus - MPa

WebCode	Data Flag	Sample K17			Sample K18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
WNAWZ2	*	2,178	-152	-1.25	2,326	-2	-0.02
WVR3X9		2,179	-151	-1.25	2,211	-118	-0.99
X43NJG		2,288	-42	-0.35	2,288	-40	-0.34
XMWYDQ		2,092	-238	-1.96	2,102	-226	-1.89
XR6EQL		2,334	4	0.03	2,344	16	0.13
XR98W2	*	2,653	323	2.67	2,663	334	2.80
Y4EGLH		2,322	-8	-0.07	2,322	-7	-0.06

Summary Statistics		
	Sample K17	Sample K18
Grand Means	2,329.9 MPa	2,328.4 MPa
Std Dev Btwn Labs	121.0 MPa	119.4 MPa
Statistics based on 41 of 42 reporting participants		

Sample K17: ABS & Sample K18: ABS

Comments on Assigned Data Flags for Test #736

QBMBF7 (X) - Data for both samples are high. Possible Systematic Error.



Plastics Interlaboratory Testing Program

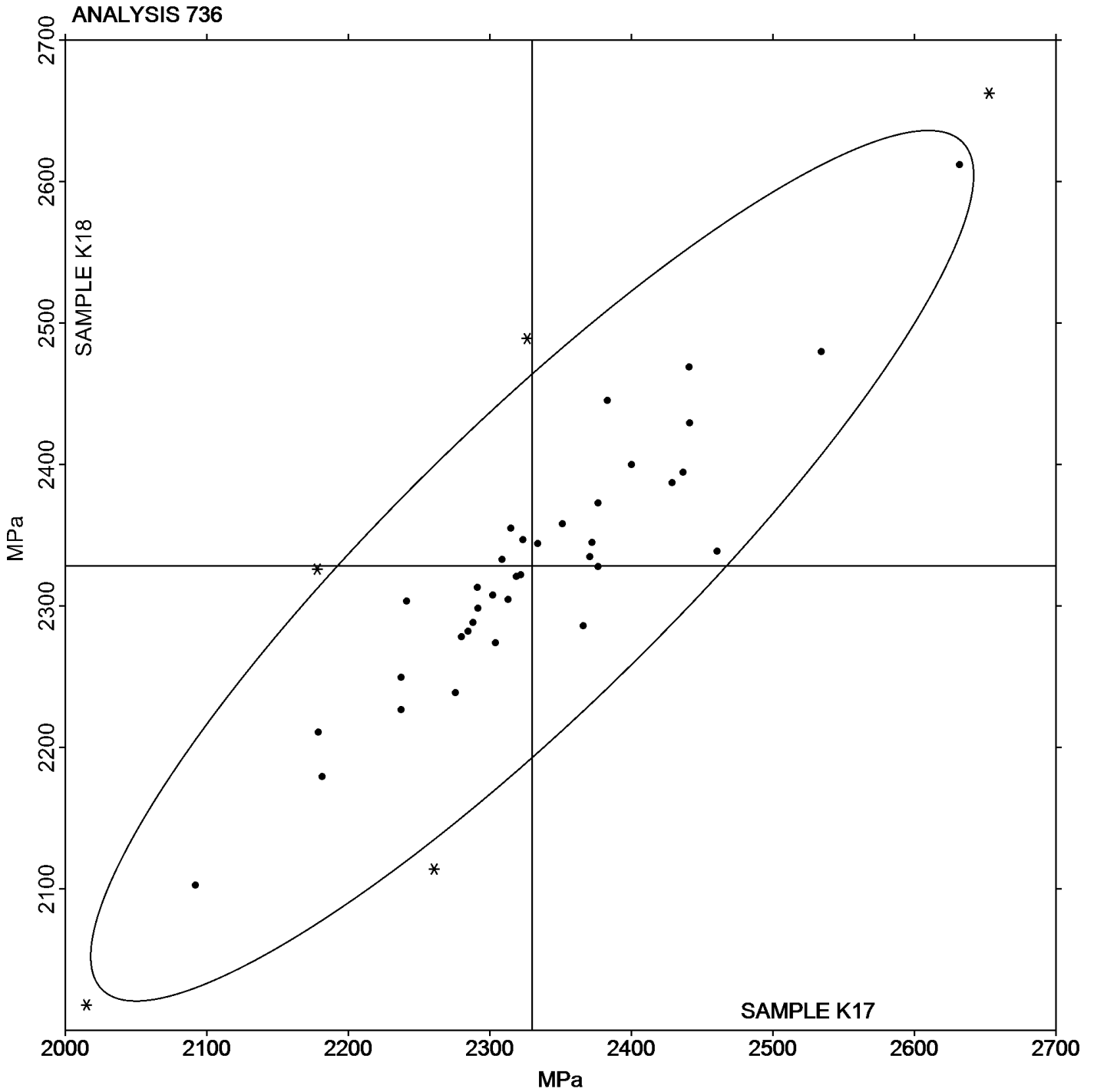
Analysis 736

Flexural Modulus - MPa

Report #138

2nd Qtr 2026

Grand Mean Sample K17: 2,329.88 MPa Grand Mean Sample K18: 2,328.39 MPa





Plastics Interlaboratory Testing Program

Report #138

Analysis 737

2nd Qtr 2026

Flexural Stress at 3.5% Strain - MPa

WebCode	Data Flag	Sample K17			Sample K18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2B9QX7		64.44	0.56	0.36	63.99	0.05	0.03
2MLUJ4	X	51.13	-12.76	-8.31	63.48	-0.46	-0.27
2RY79C		66.30	2.42	1.58	66.24	2.30	1.37
38PWYW		62.26	-1.62	-1.06	62.32	-1.62	-0.96
4PKHLH		63.11	-0.77	-0.50	63.03	-0.90	-0.54
64VGAF		63.23	-0.65	-0.42	63.16	-0.78	-0.46
8X3Y63		61.68	-2.20	-1.43	61.45	-2.48	-1.48
9CGBL8		63.12	-0.76	-0.49	63.94	0.00	0.00
9KVXXW		64.23	0.34	0.22	64.15	0.21	0.13
BCCEQ3		64.64	0.76	0.49	64.98	1.05	0.62
CYDRKC		63.80	-0.09	-0.06	63.83	-0.11	-0.06
E9XHLV		62.90	-0.99	-0.64	62.45	-1.48	-0.88
HMLJG		64.23	0.35	0.23	64.31	0.38	0.22
JL9A4P		64.73	0.84	0.55	64.83	0.89	0.53
JPAPNT		64.41	0.53	0.35	63.82	-0.11	-0.07
KUG29D		62.60	-1.28	-0.83	62.76	-1.17	-0.70
L2DUP7		64.47	0.59	0.38	65.11	1.17	0.70
LDKZFX		64.03	0.15	0.10	64.21	0.27	0.16
M6RCDL	X	62.67	-1.21	-0.79	61.04	-2.90	-1.73
N9LT3K		61.78	-2.10	-1.37	61.50	-2.44	-1.45
NY3RUK		63.29	-0.60	-0.39	62.52	-1.41	-0.84
Q787GB		63.69	-0.19	-0.12	64.11	0.18	0.10
QBMBF7		66.62	2.74	1.78	67.50	3.56	2.12
QHKH42		63.23	-0.66	-0.43	63.50	-0.44	-0.26
RQEV8E		63.13	-0.75	-0.49	63.81	-0.13	-0.08
TA646A		63.92	0.04	0.02	63.98	0.05	0.03
UZAK47		65.14	1.26	0.82	64.85	0.92	0.55
V9JAFJ		62.97	-0.91	-0.59	63.06	-0.87	-0.52
VENM9U		66.63	2.74	1.79	66.56	2.63	1.56
VF38UD		65.50	1.61	1.05	65.21	1.28	0.76
WK93ED	X	70.14	6.26	4.08	64.92	0.98	0.59
WKT4W9		63.32	-0.56	-0.37	63.32	-0.62	-0.37
WVR3X9		62.96	-0.93	-0.60	63.81	-0.13	-0.08
XMWYDQ	*	59.68	-4.20	-2.74	59.12	-4.82	-2.87
XR6EQL		65.21	1.33	0.87	65.46	1.52	0.91



Plastics Interlaboratory Testing Program

Report #138

Analysis 737

2nd Qtr 2026

Flexural Stress at 3.5% Strain - MPa

WebCode	Data Flag	<u>Sample K17</u>			<u>Sample K18</u>		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
XR98W2		67.22	3.34	2.18	67.55	3.61	2.15
Y4EGLH		63.51	-0.37	-0.24	63.39	-0.55	-0.33

Summary Statistics		<u>Sample K17</u>	<u>Sample K18</u>
Grand Means		63.881 MPa	63.936 MPa
Std Dev Btwn Labs		1.535 MPa	1.678 MPa
Statistics based on 34 of 37 reporting participants			

Sample K17: ABS & Sample K18: ABS

Comments on Assigned Data Flags for Test #737

- M6RCDL (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample K18.
- 2MLUJ4 (X) - Data for sample K17 are low. Inconsistent within the determinations of sample K17.
- WK93ED (X) - Data for sample K17 are high.



Plastics Interlaboratory Testing Program

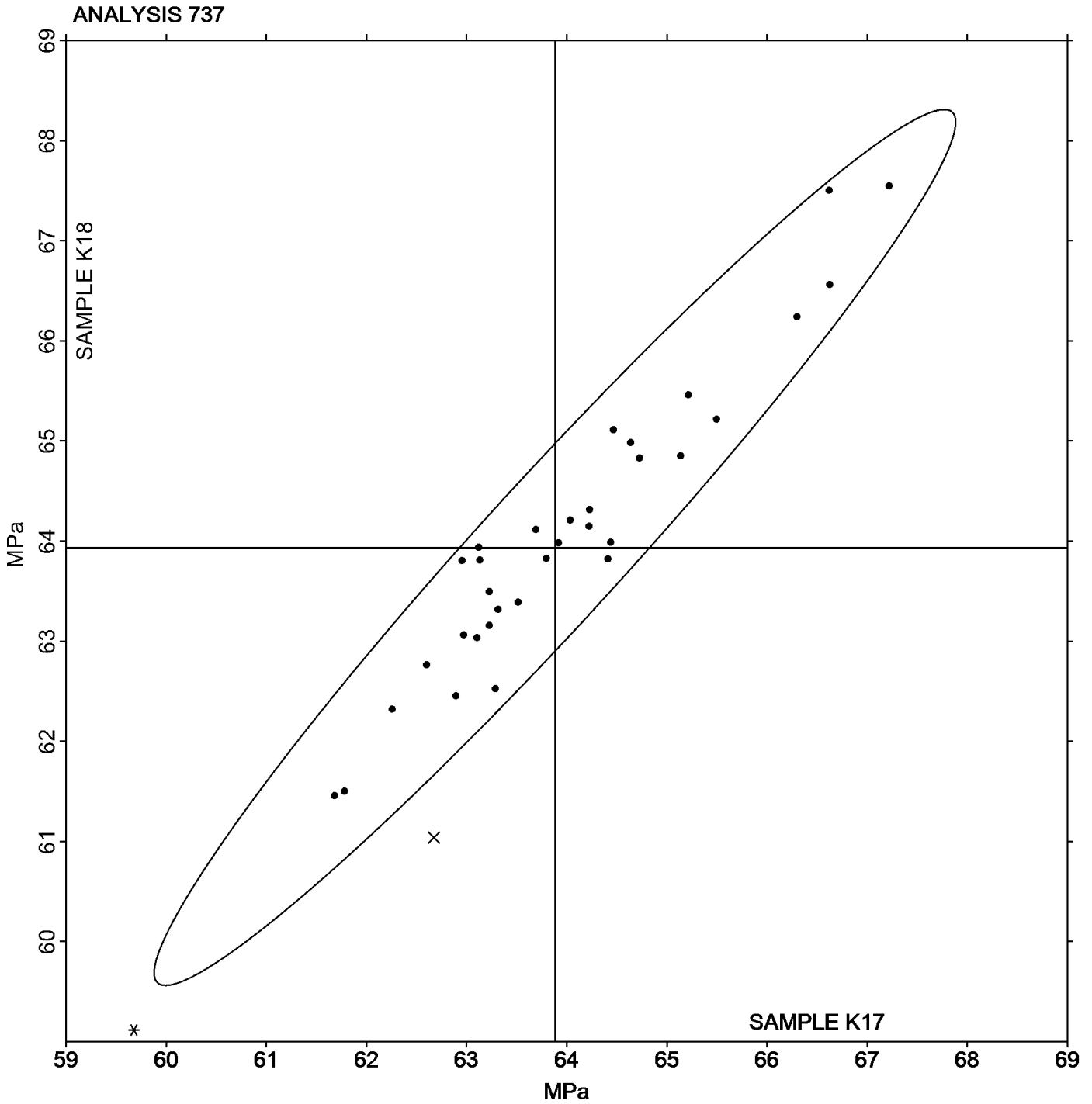
Analysis 737

Flexural Stress at 3.5% Strain - MPa

Report #138

2nd Qtr 2026

Grand Mean Sample K17: 63.881 MPa Grand Mean Sample K18: 63.936 MPa





Plastics Interlaboratory Testing Program

Report #138

Analysis 738

2nd Qtr 2026

Flexural Stress at Yield - MPa

WebCode	Data Flag	Sample K17			Sample K18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2B9QX7		64.77	0.09	0.07	64.42	-0.34	-0.25
2MLQUY		66.19	1.51	1.20	65.77	1.01	0.73
2MLUJ4	X	51.15	-13.54	-10.76	63.67	-1.09	-0.79
2RY79C		66.42	1.73	1.38	66.42	1.66	1.20
38PWVY		62.76	-1.93	-1.53	62.86	-1.90	-1.37
4PKHLH		63.88	-0.80	-0.64	63.70	-1.06	-0.77
64VGAF		63.72	-0.97	-0.77	63.62	-1.14	-0.82
9CGBL8		63.74	-0.95	-0.75	64.52	-0.24	-0.17
9KVXXW		64.75	0.06	0.05	65.00	0.24	0.18
E9XHLV		63.33	-1.36	-1.08	62.93	-1.83	-1.33
HMLJJG		64.72	0.04	0.03	64.79	0.03	0.02
JL9A4P		65.24	0.55	0.44	65.51	0.75	0.55
JPAPNT		65.10	0.41	0.33	64.55	-0.21	-0.15
KUG29D		63.18	-1.51	-1.20	63.04	-1.72	-1.24
L2DUP7		65.35	0.66	0.53	66.10	1.34	0.97
LDKZFX		64.76	0.07	0.06	64.78	0.02	0.01
N9LT3K		62.86	-1.83	-1.45	62.44	-2.32	-1.68
NY3RUK		64.37	-0.32	-0.25	63.56	-1.20	-0.87
Q787GB		64.40	-0.28	-0.23	65.03	0.27	0.20
QBMBF7		66.66	1.97	1.57	67.62	2.86	2.07
RQEV8E		63.93	-0.75	-0.60	64.43	-0.33	-0.24
TA646A		64.62	-0.07	-0.06	64.74	-0.02	-0.01
V9JAFJ		63.85	-0.84	-0.67	63.96	-0.80	-0.58
VENM9U		67.19	2.50	1.99	67.14	2.38	1.72
VZ98V4		65.62	0.94	0.74	65.19	0.43	0.31
WK93ED	X	76.32	11.63	9.25	72.90	8.14	5.89
WKT4W9		63.31	-1.37	-1.09	63.32	-1.44	-1.04
WVR3X9		63.79	-0.90	-0.71	64.77	0.01	0.01
XMWYDQ	M	61.04	-3.65	-2.90	No data reported for this sample		
XR6EQL		65.66	0.97	0.77	65.98	1.22	0.89
XR98W2		67.53	2.84	2.26	67.76	3.00	2.17
Y4EGLH		64.19	-0.49	-0.39	64.07	-0.69	-0.50



Plastics Interlaboratory Testing Program

Report #138

Analysis 738

2nd Qtr 2026

Flexural Stress at Yield - MPa

Summary Statistics	<u>Sample K17</u>	<u>Sample K18</u>
Grand Means	64.686 MPa	64.760 MPa
Stnd Dev Btwn Labs	1.258 MPa	1.382 MPa
Statistics based on 29 of 32 reporting participants		

Sample K17: ABS & Sample K18: ABS

Comments on Assigned Data Flags for Test #738

- 2MLUJ4 (X) - Data for sample K17 are low. Inconsistent within the determinations of sample K17.
- XMWYDQ (M) - Participant did not submit data for sample K18.
- WK93ED (X) - Data for both samples are high. Possible Systematic Error.



Plastics Interlaboratory Testing Program

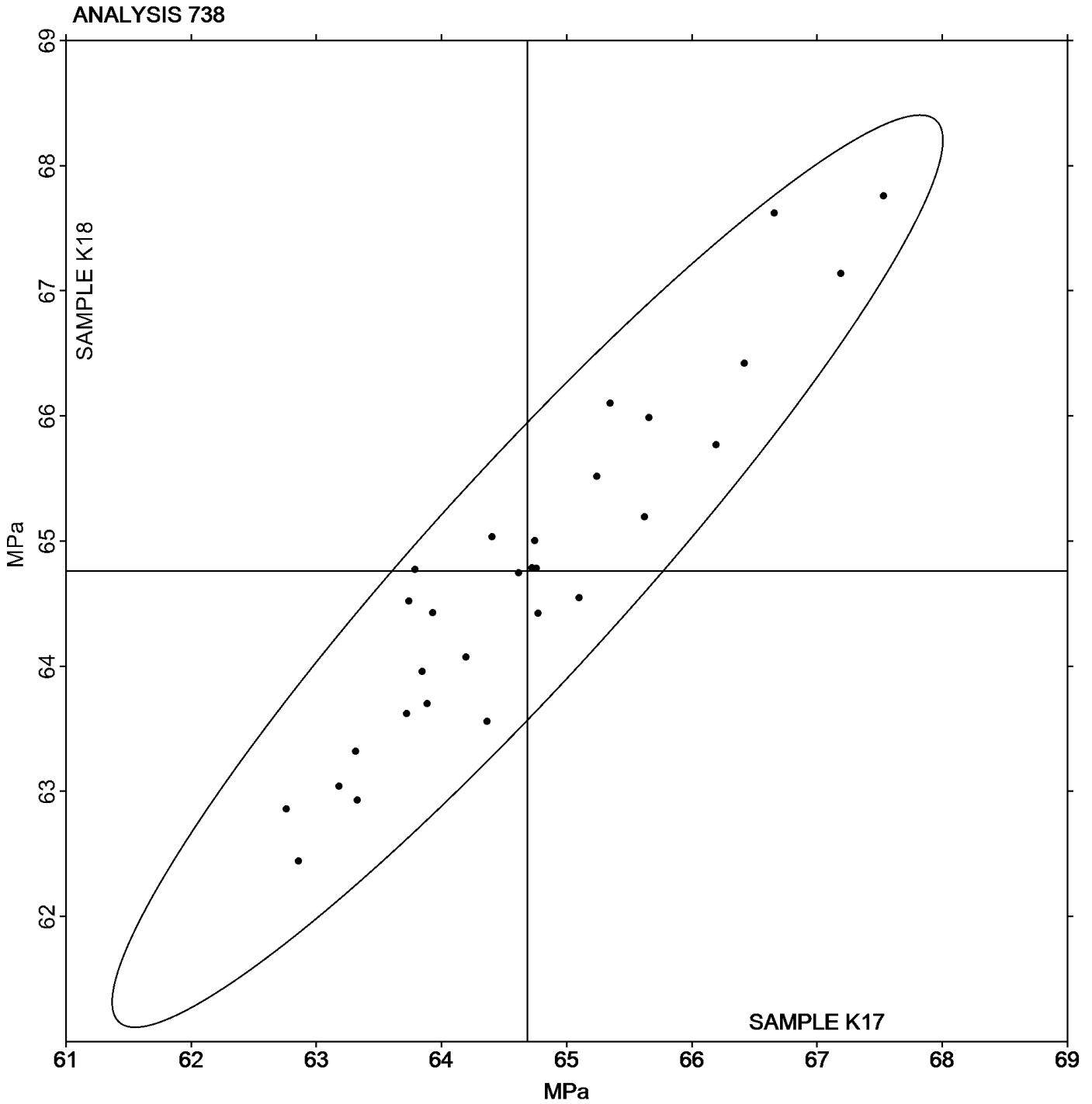
Analysis 738

Flexural Stress at Yield - MPa

Report #138

2nd Qtr 2026

Grand Mean Sample K17: 64.686 MPa Grand Mean Sample K18: 64.760 MPa





Plastics Interlaboratory Testing Program

Report #138

Analysis 750

2nd Qtr 2026

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

WebCode	Data Flag	Sample X17			Sample X18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2B9QX7		12.62	0.35	0.65	12.62	0.29	0.49	TO
2MLQUY		12.98	0.71	1.32	13.22	0.89	1.49	TO
2MLUJ4		12.50	0.23	0.42	12.60	0.28	0.46	TO
2RY79C		12.92	0.65	1.21	12.65	0.32	0.54	TO
339QX4		11.69	-0.58	-1.09	11.64	-0.68	-1.14	WZ
38PWWY		12.08	-0.19	-0.36	11.97	-0.35	-0.59	GO
3EQBHZ		12.19	-0.08	-0.16	12.18	-0.15	-0.24	TO
3P66VE		12.65	0.38	0.70	12.45	0.13	0.21	TO
3T4JJ4	*	12.93	0.66	1.22	12.10	-0.23	-0.38	DY
3WKJKJ	X	1.24	-11.04	-20.57	1.17	-11.15	-18.58	TM
3Z6VEZ		11.45	-0.82	-1.54	11.50	-0.82	-1.37	KA
4A4KGG		12.10	-0.17	-0.32	12.08	-0.24	-0.40	TO
4MD2P8	*	13.71	1.44	2.68	14.05	1.73	2.89	TO
4PKHLH		11.87	-0.41	-0.76	11.99	-0.33	-0.55	TO
64VGAF		11.75	-0.52	-0.97	11.89	-0.43	-0.72	TY
6GN94C	*	10.90	-1.37	-2.56	10.60	-1.72	-2.87	KA
8EP63Z		12.10	-0.17	-0.32	12.10	-0.22	-0.37	TO
8X3Y63		11.71	-0.56	-1.05	12.25	-0.07	-0.12	XX
8X4WFX		12.25	-0.02	-0.04	12.06	-0.27	-0.44	TO
9CGBL8		12.00	-0.27	-0.51	12.35	0.03	0.05	TO
9KVXXW	X	10.25	-2.02	-3.77	12.80	0.48	0.80	TO
ABLQV2		12.36	0.09	0.16	12.14	-0.18	-0.30	TO
AG7BFT		12.25	-0.02	-0.04	12.25	-0.07	-0.12	TO
B32C62		11.73	-0.54	-1.01	12.32	-0.01	-0.01	WZ
BPFZTR	X	12.59	0.32	0.59	18.05	5.73	9.55	TO
CKZPFM		13.39	1.11	2.08	13.31	0.99	1.65	DY
CQ6ZGA		11.75	-0.53	-0.99	11.85	-0.48	-0.79	TO
CYDRKC		11.69	-0.58	-1.09	12.01	-0.31	-0.52	DY
D4BZJX	X	13.20	0.93	1.73	14.50	2.18	3.63	TO
D8CG32		12.03	-0.24	-0.45	11.65	-0.67	-1.12	TO
E9XHLV	X	12.90	0.63	1.17	14.00	1.68	2.80	CE
EMYG87		12.04	-0.24	-0.45	12.11	-0.22	-0.36	TO
GQVJCX		12.62	0.35	0.65	12.75	0.42	0.71	TO
GYNKGV		12.54	0.27	0.50	13.19	0.87	1.45	WZ
JPAPNT		12.02	-0.25	-0.47	11.91	-0.42	-0.69	WZ



Plastics Interlaboratory Testing Program

Report #138

Analysis 750

2nd Qtr 2026

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

WebCode	Data Flag	Sample X17			Sample X18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
KB794Q		11.69	-0.59	-1.10	11.61	-0.72	-1.19	TO
KMYVAL		11.80	-0.47	-0.88	11.95	-0.37	-0.62	TO
KUG29D		11.65	-0.62	-1.16	11.87	-0.46	-0.76	DY
L2DUP7		11.90	-0.38	-0.70	11.86	-0.46	-0.77	CE
LBH37Q	X	14.62	2.34	4.36	14.54	2.21	3.69	TO
LDKZFX		11.95	-0.32	-0.60	11.80	-0.52	-0.87	WZ
LDNTNK		12.05	-0.22	-0.42	12.25	-0.07	-0.12	CE
M3LLUR		13.40	1.13	2.10	13.20	0.88	1.46	WZ
M6RCDL	X	4.50	-7.78	-14.49	7.49	-4.84	-8.06	DY
M8X87J		11.70	-0.57	-1.07	12.03	-0.29	-0.49	TO
MA6P3U		13.01	0.74	1.37	12.91	0.58	0.97	TO
MLHPYN		12.66	0.38	0.71	12.45	0.13	0.22	TO
N9LT3K		11.63	-0.64	-1.19	11.03	-1.29	-2.15	CE
Q787GB		12.25	-0.02	-0.04	12.25	-0.07	-0.12	WZ
QAC4ZE		12.23	-0.05	-0.09	12.23	-0.09	-0.15	WZ
QBMBF7		12.14	-0.14	-0.26	11.53	-0.79	-1.32	TO
QFCPPT		13.32	1.05	1.95	13.24	0.91	1.52	TO
QHKH42		12.05	-0.22	-0.42	12.10	-0.22	-0.37	TO
R2GTFN		12.89	0.62	1.15	13.34	1.02	1.70	TO
RQEV8E		12.60	0.33	0.61	12.55	0.23	0.38	TO
RZHQQJ		12.85	0.58	1.07	12.95	0.63	1.05	GO
TA646A		12.32	0.05	0.09	12.40	0.08	0.13	TO
TG7VJR		12.60	0.33	0.61	13.00	0.68	1.13	TO
TJME4L		11.70	-0.58	-1.07	12.21	-0.12	-0.19	TO
V9JAFJ		11.99	-0.29	-0.54	12.14	-0.18	-0.31	DY
VENM9U	X	17.29	5.01	9.34	17.48	5.16	8.60	WZ
VF38UD		12.46	0.19	0.35	12.75	0.42	0.71	DY
VGDEB6		12.90	0.63	1.17	13.00	0.68	1.13	TO
VZ98V4	X	15.69	3.42	6.37	15.39	3.07	5.12	TO
WNAWZ2		11.99	-0.29	-0.54	11.73	-0.59	-0.99	XX
WVR3X9		12.31	0.03	0.06	12.93	0.61	1.01	WZ
X2RF3P	X	14.24	1.97	3.67	13.29	0.96	1.61	TO
X43NJG		12.03	-0.25	-0.46	12.18	-0.15	-0.24	XX
XL398C		12.95	0.68	1.26	12.75	0.43	0.72	CE
XR6EQL		12.10	-0.17	-0.32	12.30	-0.02	-0.04	GO



Plastics Interlaboratory Testing Program

Report #138

Analysis 750

2nd Qtr 2026

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

WebCode	Data Flag	Sample X17			Sample X18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XR9AL7		12.61	0.33	0.62	12.38	0.06	0.10	GO
Y28YMM		12.15	-0.12	-0.23	12.20	-0.13	-0.21	TO
YV3NJF	*	12.60	0.33	0.61	13.41	1.09	1.81	WZ
ZVEGLF	X	5.55	-6.73	-12.54	5.40	-6.92	-11.54	XX

Summary Statistics

	Sample X17	Sample X18
Grand Means	12.274 grams/10 mins	12.321 grams/10 mins
Std Dev Btwn Labs	0.537 grams/10 mins	0.600 grams/10 mins

Statistics based on 63 of 74 reporting participants

Sample X17: PP & Sample X18: PP

Comments on Assigned Data Flags for Test #750

- D4BZJX (X) - Data for sample X18 are high.
- M6RCDL (X) - Data for both samples are low. Inconsistent within the determinations of sample X18.
- 9KVXXW (X) - Data for sample X17 are low.
- BPFZTR (X) - Data for sample X18 are high.
- VZ98V4 (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample X17.
- VENM9U (X) - Data for both samples are high. Possible Systematic Error.
- X2RF3P (X) - Data for sample X17 are high. Inconsistent within the determinations of both samples.
- 3WKJKJ (X) - Extreme data.
- ZVEGLF (X) - Data for both samples are low.
- LBH37Q (X) - Data for both samples are high. Possible Systematic Error.
- E9XHLV (X) - Data for sample X18 are high.

Results by Methodology (as reported by laboratory)

Test Methodology	Sample X17			Sample X18			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Procedure A of ASTM D1238	12.385	0.569	0.11	12.412	0.609	0.09	27/33
Procedure B of ASTM D1238	12.241	0.456	-0.03	12.218	0.406	-0.10	17/18
Procedure A of ISO 1133	11.984	0.485	-0.29	12.104	0.675	-0.22	10/13
Procedure B of ISO 1133	12.323	0.588	0.05	12.484	0.778	0.16	9/9



Plastics Interlaboratory Testing Program

Report #138

Analysis 750

2nd Qtr 2026

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

Key to Instrument Codes Reported by Participants

CE	Ceast	DY	Dynisco
GO	Gottfert	KA	Kayeness
TM	TMI	TO	Tinius Olsen
TY	Toyoseiki Seisakusho	WZ	Zwick
XX	Instrument manufacturer not specified by lab		



Plastics Interlaboratory Testing Program

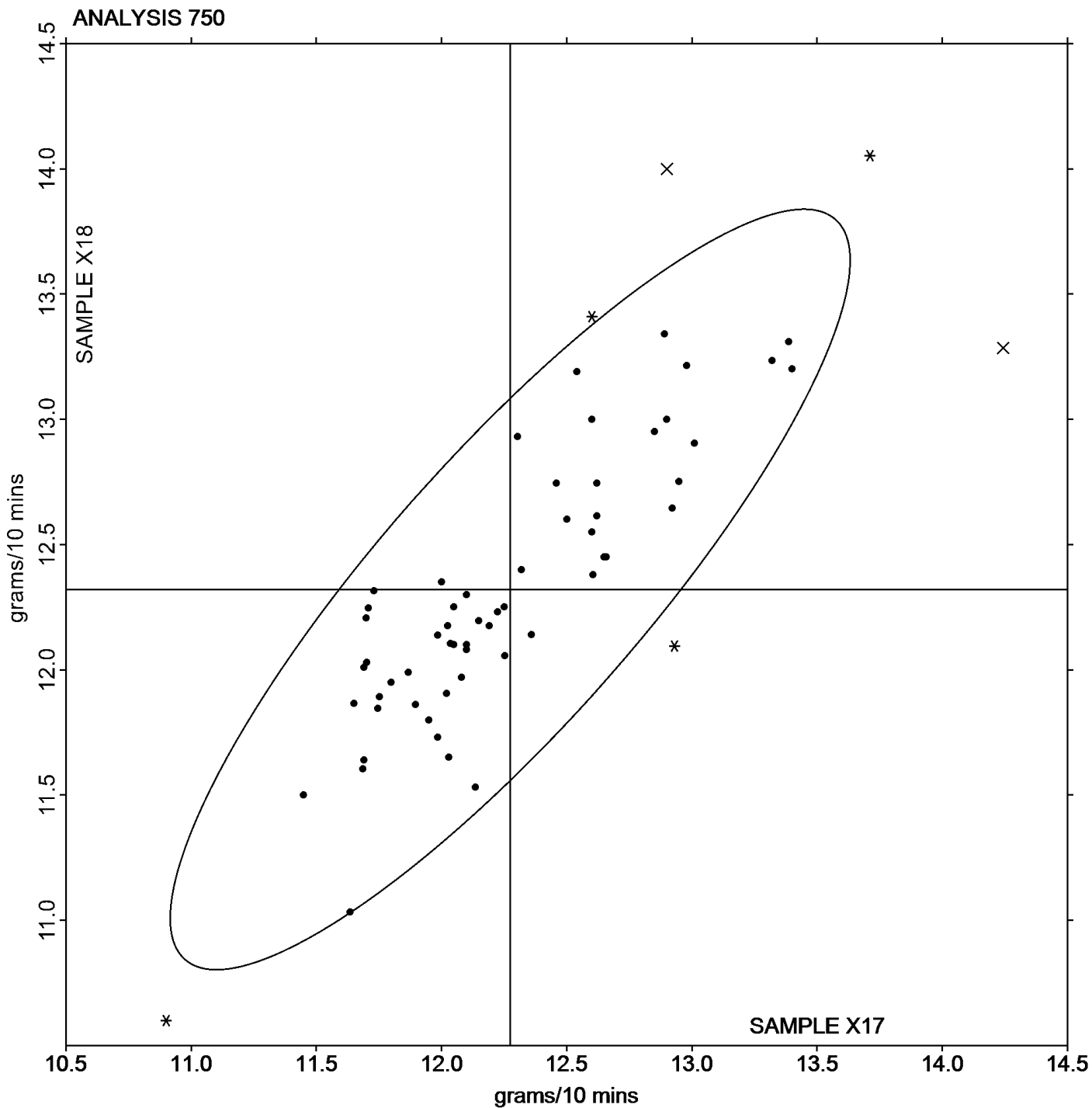
Report #138

Analysis 750

2nd Qtr 2026

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

Grand Mean Sample X17: 12.274 grams/10 mins Grand Mean Sample X18: 12.321 grams/10 mins





Plastics Interlaboratory Testing Program

Report #138

Analysis 755

2nd Qtr 2026

Moisture Content of Plastics

WebCode	Data Flag	Sample Y17			Sample Y18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
292CQY		0.14757	0.01504	0.66	0.15017	0.01605	0.65	MU
2B9QX7		0.13937	0.00684	0.30	0.13987	0.00575	0.23	ML
2MLUJ4		0.12667	-0.00586	-0.26	0.12600	-0.00812	-0.33	MU
3T4JJ4		0.07643	-0.05609	-2.46	0.07710	-0.05702	-2.30	AZ
4439KK		0.12967	-0.00286	-0.13	0.11500	-0.01912	-0.77	MU
4EJVUK		0.14467	0.01214	0.53	0.14133	0.00721	0.29	XX
8EP63Z		0.13200	-0.00053	-0.02	0.13400	-0.00012	0.00	XX
8X3Y63		0.14033	0.00781	0.34	0.13967	0.00555	0.22	XX
9KVXXW	X	0.22150	0.08897	3.90	0.23900	0.10488	4.23	MU
AG7BFT		0.11967	-0.01286	-0.56	0.11967	-0.01445	-0.58	BA
BCCEQ3		0.13433	0.00181	0.08	0.14333	0.00921	0.37	MU
BK2WTW		0.13500	0.00247	0.11	0.13750	0.00338	0.14	MU
CKZPFM		0.13667	0.00414	0.18	0.12700	-0.00712	-0.29	AZ
CYDRKC		0.13102	-0.00151	-0.07	0.13119	-0.00293	-0.12	MJ
D8CG32		0.11033	-0.02219	-0.97	0.12200	-0.01212	-0.49	CT
GQVJCX		0.14433	0.01181	0.52	0.15367	0.01955	0.79	XX
JAPANT		0.10190	-0.03063	-1.34	0.10637	-0.02775	-1.12	MU
JTCNYL		0.14500	0.01247	0.55	0.14000	0.00588	0.24	MU
K93GCD		0.12333	-0.00919	-0.40	0.12000	-0.01412	-0.57	MU
L2DUP7		0.12767	-0.00486	-0.21	0.12767	-0.00645	-0.26	MU
LWXKC2		0.16757	0.03504	1.53	0.15277	0.01865	0.75	CS
N9LT3K		0.14573	0.01321	0.58	0.14307	0.00895	0.36	MK
NY3RUK	*	0.18200	0.04947	2.17	0.19867	0.06455	2.60	CT
P3GLAH		0.10487	-0.02766	-1.21	0.10637	-0.02775	-1.12	BA
QBMBF7		0.13333	0.00081	0.04	0.14000	0.00588	0.24	AZ
QDUTCG		0.10133	-0.03119	-1.37	0.09633	-0.03779	-1.52	MU
TG7VJR	*	0.09327	-0.03926	-1.72	0.11520	-0.01892	-0.76	CT
VENM9U		0.14500	0.01247	0.55	0.15000	0.01588	0.64	MU
VF38UD		0.13933	0.00681	0.30	0.14707	0.01295	0.52	BA
WK93ED		0.18250	0.04997	2.19	0.19700	0.06288	2.53	SB
WVR3X9		0.13233	-0.00019	-0.01	0.14233	0.00821	0.33	MU
X2RF3P		0.15160	0.01907	0.84	0.15153	0.01741	0.70	AZ
X6Y4VE		0.11600	-0.01653	-0.72	0.10000	-0.03412	-1.38	XX



Plastics Interlaboratory Testing Program

Report #138

Analysis 755

2nd Qtr 2026

Moisture Content of Plastics

Summary Statistics		
	<u>Sample Y17</u>	<u>Sample Y18</u>
Grand Means	0.132526 Percent	0.134121 Percent
Stnd Dev Btwn Labs	0.022835 Percent	0.024815 Percent
Statistics based on 32 of 33 reporting participants		

Sample Y17: ABS & Sample Y18: ABS

Comments on Assigned Data Flags for Test #755

9KVXXW (X) - Data for both samples are high. Possible Systematic Error.

Results by Methodology (as reported by laboratory)

Test Methodology	Sample Y17 <i>ABS</i>			Sample Y18 <i>ABS</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
ASTM D6869	0.130110	0.021743	-0.0024	0.128433	0.017718	-0.0057	10/10
ISO 15512 Method B	0.128575	0.018737	-0.0040	0.133775	0.018277	-0.0003	4/4
ASTM D6980	0.146019	0.023113	0.0135	0.151759	0.027911	0.0176	9/10
ASTM D7191	0.124007	0.029043	-0.0085	0.124393	0.028815	-0.0097	5/5

Key to Instrument Codes Reported by Participants

- | | |
|---|--|
| AZ Arizona Instruments Moisture Analyzer | BA Brabender Aquatrac |
| CS Cosa Instruments | CT Computrac Moisture Analyzer |
| MJ Mitsubishi KF Analyzer Series | MK Mitsubishi KF Analyzer CA |
| ML Metrohm Coulometer | MU Mettler Toledo |
| SB Sartorius Mark 3 | XX Instrument manufacturer not specified by lab |



Plastics Interlaboratory Testing Program

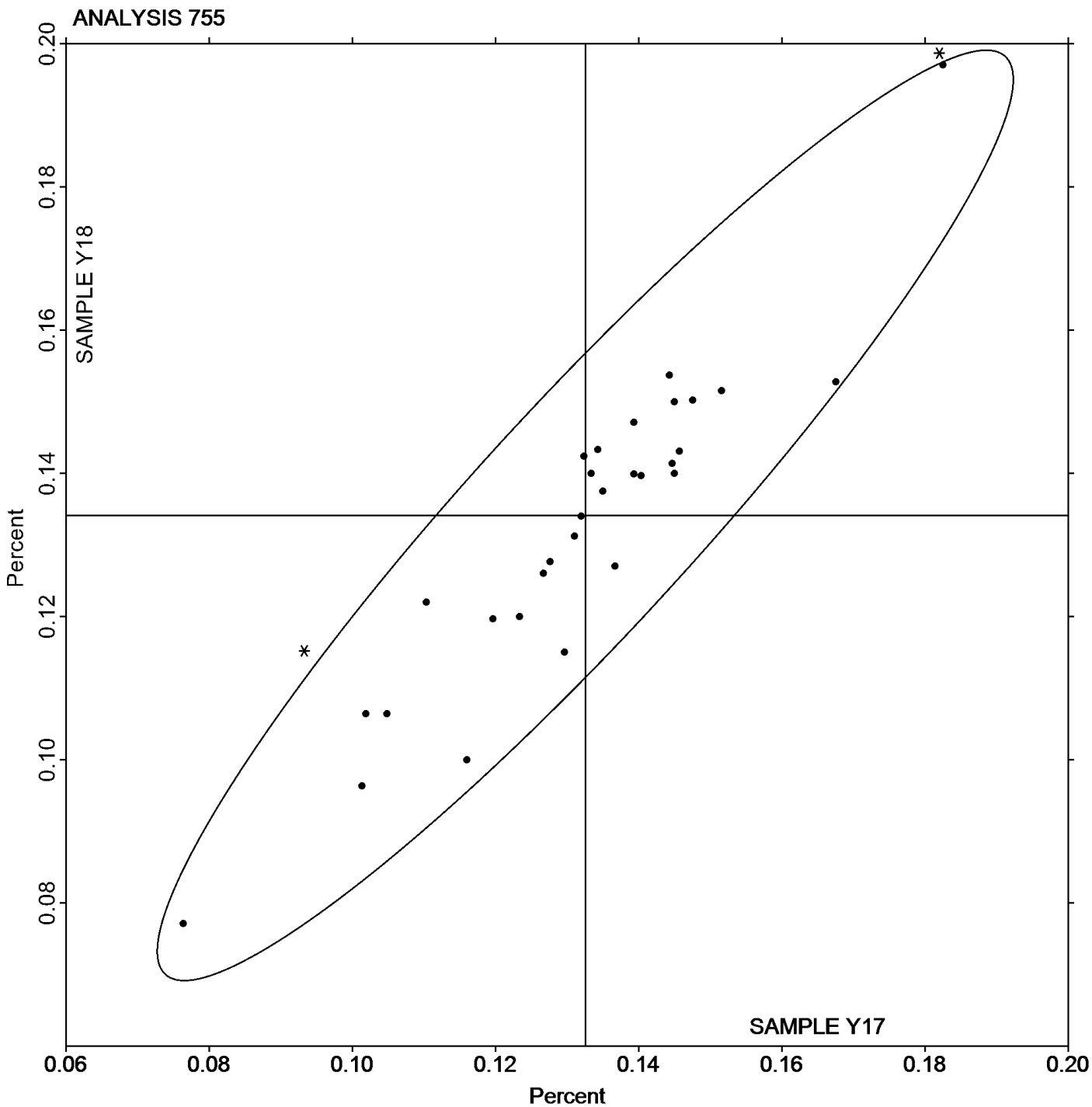
Analysis 755

Moisture Content of Plastics

Report #138

2nd Qtr 2026

Grand Mean Sample Y17: 0.13253 Percent Grand Mean Sample Y18: 0.13412 Percent





Plastics Interlaboratory Testing Program

Report #138

Analysis 757

2nd Qtr 2026

Ash Content in Thermoplastics - Percent

WebCode	Data Flag	Sample L17			Sample L18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2B9QX7		29.755	0.049	0.56	29.775	0.059	0.67
2MLQUY		29.686	-0.020	-0.23	29.745	0.028	0.32
2MLUJ4		29.755	0.049	0.56	29.745	0.029	0.33
2RY79C	X	29.895	0.189	2.17	29.540	-0.176	-2.02
2XJUW8		29.740	0.034	0.39	29.735	0.019	0.21
3P66VE		29.790	0.084	0.97	29.695	-0.021	-0.25
4439KK		29.655	-0.051	-0.58	29.795	0.079	0.90
4EJVUK		29.750	0.044	0.51	29.770	0.054	0.61
4PKHLH		29.664	-0.042	-0.48	29.613	-0.103	-1.18
6PFLQC		29.595	-0.111	-1.27	29.635	-0.081	-0.93
8EP63Z		29.800	0.094	1.08	29.750	0.034	0.38
8NE8HA		29.697	-0.009	-0.10	29.680	-0.037	-0.42
8X3Y63	X	29.420	-0.286	-3.27	29.740	0.024	0.27
9CGBL8		29.750	0.044	0.51	29.745	0.029	0.33
9KVXXW		29.735	0.029	0.34	29.740	0.024	0.27
BK2WTW		29.735	0.029	0.34	29.755	0.039	0.44
CLVWB8		29.548	-0.157	-1.80	29.545	-0.171	-1.96
CYDRKC		29.830	0.124	1.42	29.815	0.099	1.13
D8CG32	*	29.435	-0.271	-3.10	29.575	-0.141	-1.62
DDYR7P		29.745	0.039	0.45	29.765	0.049	0.55
FQQZNV		29.750	0.044	0.51	29.780	0.064	0.73
GQVJCX		29.730	0.024	0.28	29.760	0.044	0.50
HERENV		29.790	0.084	0.97	29.675	-0.041	-0.47
JPAPNT		29.671	-0.034	-0.39	29.556	-0.160	-1.83
JRE6NP		29.690	-0.016	-0.18	29.680	-0.036	-0.42
L2DUP7		29.629	-0.077	-0.88	29.679	-0.038	-0.43
LBH37Q		29.750	0.044	0.51	29.795	0.079	0.90
LWXKC2		29.680	-0.026	-0.29	29.650	-0.066	-0.76
N9LT3K		29.700	-0.006	-0.06	29.800	0.084	0.95
NY3RUK		29.760	0.054	0.62	29.730	0.014	0.15
Q787GB		29.630	-0.076	-0.87	29.635	-0.081	-0.93
QAC4ZE		29.557	-0.149	-1.70	29.570	-0.147	-1.68
QHKH42		29.720	0.014	0.16	29.810	0.094	1.07
RZHQQJ		29.750	0.044	0.51	29.800	0.084	0.95
TA646A		29.670	-0.036	-0.41	29.795	0.079	0.90



Plastics Interlaboratory Testing Program

Report #138

Analysis 757

2nd Qtr 2026

Ash Content in Thermoplastics - Percent

WebCode	Data Flag	Sample L17			Sample L18		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
TG7VJR	X	28.935	-0.771	-8.82	29.425	-0.291	-3.33
VENM9U		29.775	0.069	0.79	29.640	-0.076	-0.87
VF38UD		29.730	0.024	0.28	29.805	0.089	1.01
VGDEB6		29.750	0.044	0.51	29.765	0.049	0.55
VZ98V4		29.747	0.041	0.47	29.772	0.055	0.63
WK93ED	*	29.750	0.044	0.51	29.570	-0.146	-1.67
WNAWZ2		29.565	-0.141	-1.61	29.550	-0.166	-1.90
WVR3X9		29.675	-0.031	-0.35	29.770	0.054	0.61
X43NJG		29.515	-0.191	-2.18	29.595	-0.121	-1.39
XMWYDQ		29.680	-0.026	-0.29	29.700	-0.016	-0.19
XR6EQL		29.785	0.079	0.91	29.810	0.094	1.07
ZCK7R7		29.719	0.014	0.16	29.762	0.046	0.52
ZXPMD4		29.922	0.216	2.48	29.909	0.193	2.20

Summary Statistics		
	Sample L17	Sample L18
Grand Means	29.7057 Percent	29.7164 Percent
Std Dev Btwn Labs	0.0873 Percent	0.0875 Percent
Statistics based on 45 of 48 reporting participants		

Sample L17: PBT & Sample L18: PBT

Comments on Assigned Data Flags for Test #757

- TG7VJR (X) - Data for both samples are low. Inconsistent within the determinations of sample L18.
- 2RY79C (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample L17.
- 8X3Y63 (X) - Data for sample L17 are low. Inconsistent within the determinations of sample L17.



Plastics Interlaboratory Testing Program

Report #138

Analysis 758

2nd Qtr 2026

Thermogravimetric Analysis

WebCode	Data Flag	Sample A17			Sample A18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2B9QX7		80.02	0.83	1.42	79.80	0.52	1.05	TA
38PWWY		78.61	-0.58	-1.00	79.38	0.09	0.19	XX
4MD2P8		79.20	0.00	0.00	78.85	-0.44	-0.89	TA
6GN94C		79.00	-0.19	-0.33	79.15	-0.14	-0.28	TA
7A3AXJ		78.35	-0.85	-1.45	78.35	-0.94	-1.90	TA
99YLA6		79.38	0.19	0.32	79.77	0.48	0.98	TA
ABLTK7		80.18	0.98	1.68	80.20	0.91	1.84	TA
EYQZNW		79.10	-0.09	-0.16	79.00	-0.29	-0.58	TA
FZ23AV		78.95	-0.24	-0.42	78.92	-0.37	-0.75	TA
GY2LCP	X	84.91	5.72	9.76	83.40	4.11	8.33	TA
HMLJJG		78.53	-0.66	-1.13	79.51	0.22	0.44	XX
HQ67ZQ		79.62	0.43	0.73	79.38	0.09	0.18	TA
HUPZ2W		79.05	-0.15	-0.25	79.51	0.23	0.46	TA
KMYVAL		79.31	0.12	0.20	79.44	0.15	0.30	TA
KUG29D		79.52	0.33	0.56	79.83	0.54	1.09	TA
L2DUP7		78.66	-0.53	-0.91	79.16	-0.13	-0.26	TA
LBH37Q		78.21	-0.99	-1.69	78.40	-0.89	-1.80	NZ
Q787GB		79.07	-0.12	-0.21	79.44	0.15	0.30	TA
TN2H3H		80.59	1.39	2.38	80.01	0.72	1.46	TA
VENM9U		79.19	0.00	0.00	79.14	-0.15	-0.30	TA
XMWYDQ		79.18	-0.02	-0.03	79.20	-0.09	-0.19	TA
ZXPMD4		79.37	0.18	0.30	78.63	-0.66	-1.34	PE

Summary Statistics		
	Sample A17	Sample A18
Grand Means	79.193 Percent	79.287 Percent
Std Dev Btwn Labs	0.586 Percent	0.494 Percent
Statistics based on 21 of 22 reporting participants		

Sample A17: PP & Sample A18: PP

Comments on Assigned Data Flags for Test #758

GY2LCP (X) - Data for both samples are high. Inconsistent within the determinations of sample A18.



Plastics Interlaboratory Testing Program

Report #138

Analysis 758

2nd Qtr 2026

Thermogravimetric Analysis

Results by Methodology (as reported by laboratory)

Test Methodology	Sample A17 <i>PP</i>			Sample A18 <i>PP</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
ASTM D3850	79.159	0.609	-0.03	79.226	0.488	-0.06	10/10
ISO 11358	79.370	0.554	0.18	79.321	0.573	0.03	9/10

Key to Instrument Codes Reported by Participants

NZ Netzsch Instruments

PE Perkins Elmer Instruments

TA TA Instruments

XX Instrument manufacturer not specified by lab



Plastics Interlaboratory Testing Program

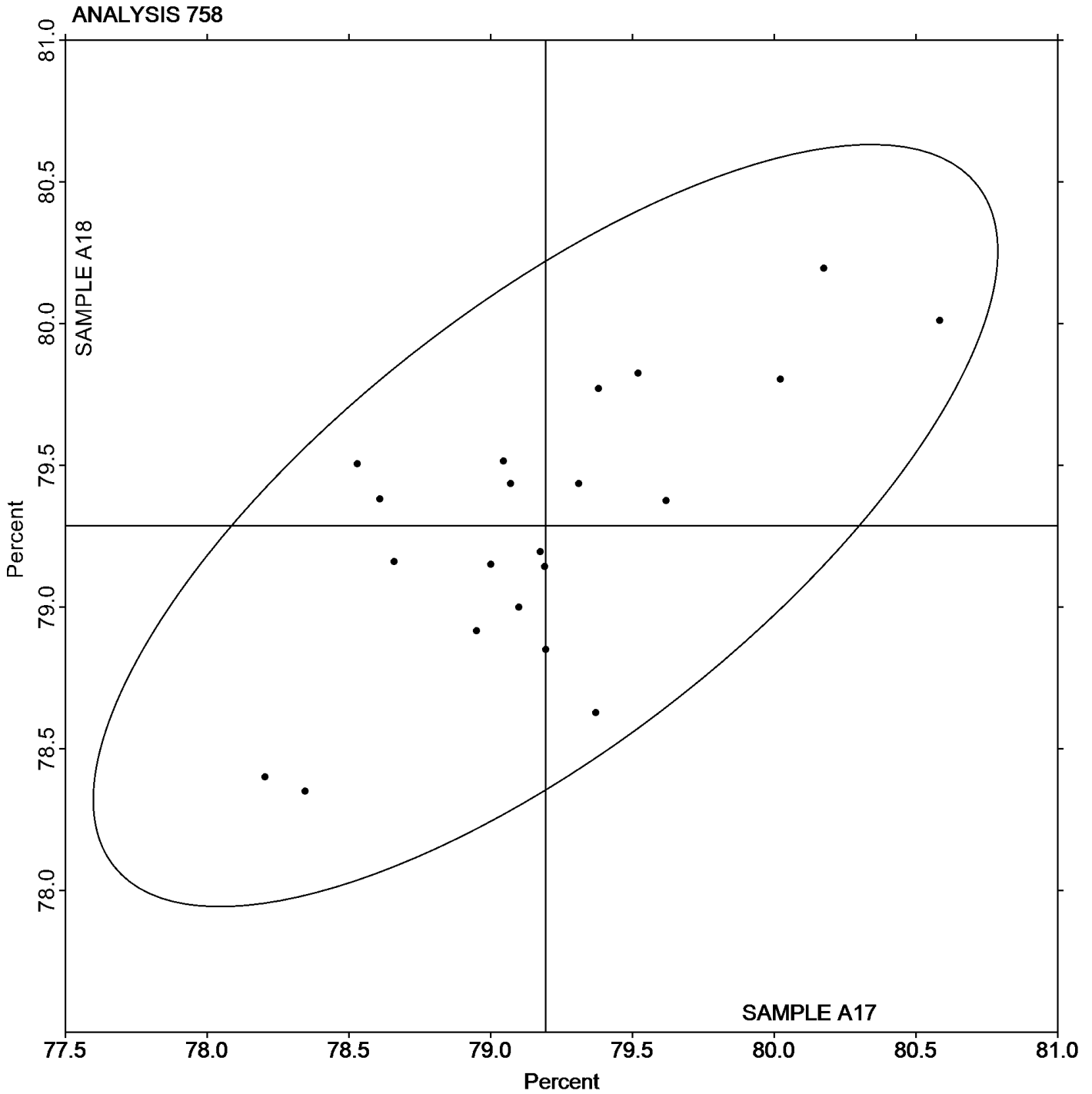
Analysis 758

Thermogravimetric Analysis

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Grand Mean Sample A17: 79.193 Percent Grand Mean Sample A18: 79.287 Percent





Plastics Interlaboratory Testing Program

Report #138

Analysis 760

2nd Qtr 2026

DSC Crystallization Temperature

WebCode	Data Flag	Sample W17			Sample W18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2RY79C		168.83	-6.94	-1.37	169.27	-6.44	-1.28	PE
38PWY		178.18	2.41	0.48	177.53	1.82	0.36	TA
4MD2P8		176.50	0.73	0.14	176.13	0.42	0.08	TA
6GN94C		182.70	6.93	1.37	182.33	6.62	1.32	TA
6PFLQC		174.90	-0.87	-0.17	175.60	-0.11	-0.02	TA
8X3Y63		183.49	7.72	1.52	183.17	7.46	1.48	TA
99YLA6		179.85	4.08	0.80	179.33	3.62	0.72	TA
9LRDAT		175.69	-0.08	-0.02	175.67	-0.04	-0.01	MT
ABLTk7		170.43	-5.34	-1.05	170.17	-5.54	-1.10	TA
CYDRKC		169.60	-6.17	-1.22	170.03	-5.68	-1.13	TA
EYQZNW		179.67	3.89	0.77	178.70	2.99	0.60	TA
GQVJCX		167.97	-7.81	-1.54	167.97	-7.74	-1.54	NZ
HMLJG		179.56	3.78	0.75	180.00	4.29	0.85	XX
JPAPNT		179.40	3.63	0.72	179.74	4.03	0.80	TA
KUG29D	X	181.55	5.78	1.14	177.42	1.71	0.34	TA
LBH37Q		170.10	-5.67	-1.12	169.93	-5.78	-1.15	NZ
M6RCDL		169.54	-6.23	-1.23	169.03	-6.68	-1.33	TA
Q787GB		173.35	-2.43	-0.48	173.02	-2.69	-0.54	TA
QUGLAF		172.80	-2.97	-0.59	173.53	-2.18	-0.43	TA
TN2H3H		181.00	5.23	1.03	181.37	5.66	1.13	TA
VENM9U		170.73	-5.04	-1.00	170.00	-5.71	-1.14	NZ
WKT4W9	X	223.82	48.04	9.48	224.08	48.37	9.63	TA
WNAWZ2		179.21	3.44	0.68	179.13	3.42	0.68	TA
WVR3X9		175.85	0.08	0.02	175.82	0.11	0.02	TA
X2RF3P		184.63	8.85	1.75	184.80	9.09	1.81	TA
X43NJG		179.50	3.73	0.74	179.27	3.56	0.71	TA
XMWYDQ		170.88	-4.89	-0.97	171.18	-4.53	-0.90	TA

Summary Statistics		
	Sample W17	Sample W18
Grand Means	175.775 Degrees Celsius	175.709 Degrees Celsius
Std Dev Btwn Labs	5.067 Degrees Celsius	5.025 Degrees Celsius
Statistics based on 25 of 27 reporting participants		

Sample W17: PBT & Sample W18: PBT



Comments on Assigned Data Flags for Test #760

KUG29D (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample W17.

WKT4W9 (X) - Data for both samples are high. Inconsistent within the determinations of both samples.

Key to Instrument Codes Reported by Participants

MT Mettler Toledo Instruments

NZ Netzsch Instruments

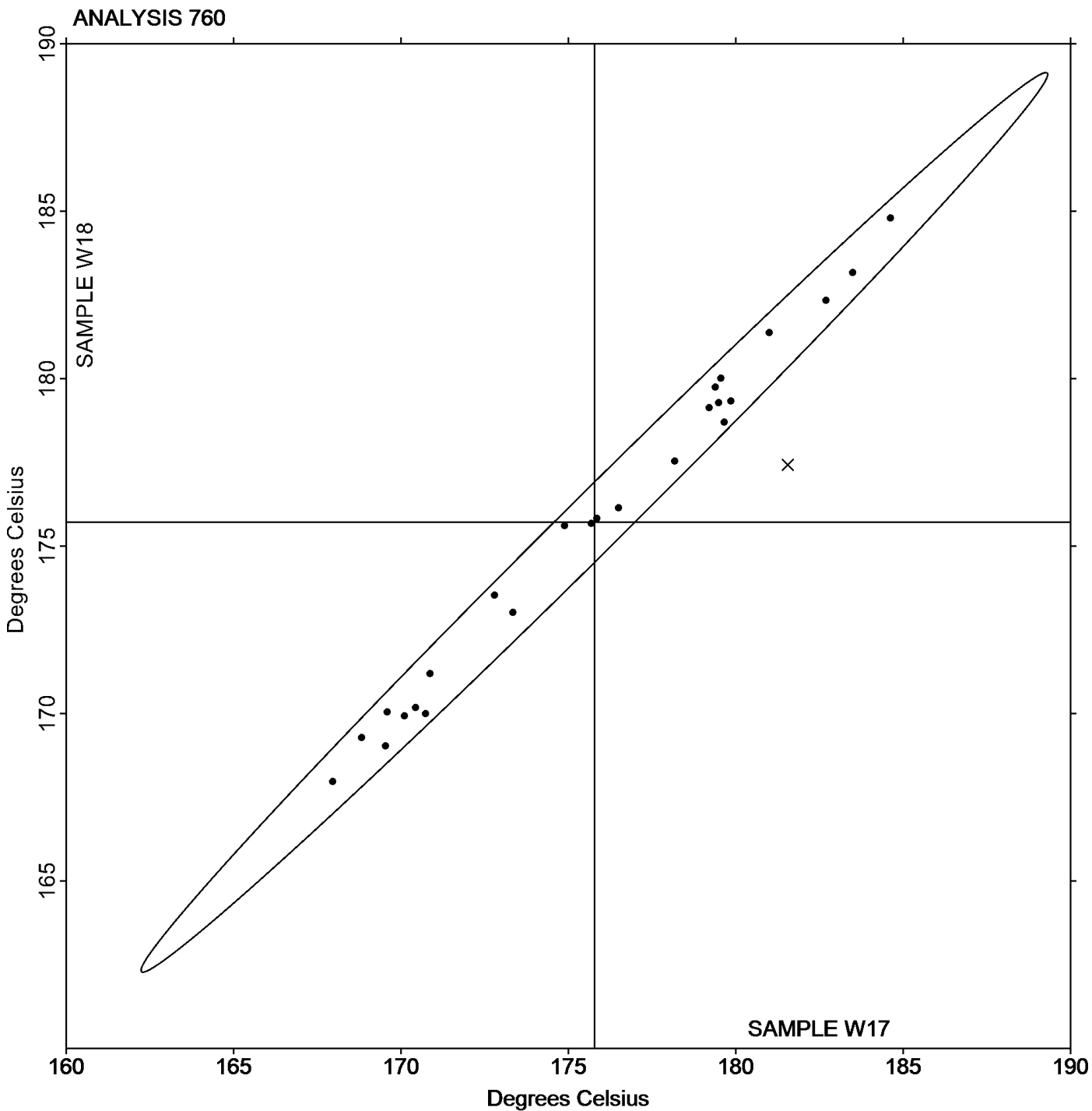
PE Perkins Elmer Instruments

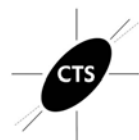
TA TA Instruments

XX Instrument manufacturer not specified by lab



Grand Mean Sample W17: 175.77 Degrees Celsius Grand Mean Sample W18: 175.71 Degrees Celsius





Plastics Interlaboratory Testing Program

Report #138

Analysis 761

2nd Qtr 2026

DSC Melt Temperature

WebCode	Data Flag	Sample W17			Sample W18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2B9QX7		224.98	1.86	1.22	225.19	2.04	1.23	TA
2RY79C	*	218.70	-4.42	-2.90	218.16	-4.98	-3.00	PE
38PWWY		221.71	-1.41	-0.92	221.76	-1.39	-0.83	TA
4MD2P8		222.43	-0.69	-0.45	222.47	-0.68	-0.41	TA
6GN94C		224.27	1.15	0.75	224.40	1.26	0.76	TA
6PFLQC		223.50	0.38	0.25	223.07	-0.08	-0.05	TA
8X3Y63		220.38	-2.74	-1.80	220.70	-2.44	-1.47	TA
99YLA6		224.21	1.09	0.71	224.25	1.11	0.67	TA
9LRDAT		222.04	-1.08	-0.71	222.08	-1.06	-0.64	MT
ABLTK7		223.40	0.28	0.18	223.47	0.32	0.20	TA
AG7BFT		222.23	-0.89	-0.58	222.13	-1.01	-0.61	TA
CYDRKC		222.97	-0.15	-0.10	222.73	-0.41	-0.25	TA
EYQZNW	*	226.77	3.65	2.40	227.47	4.32	2.60	TA
GQVJCX		223.50	0.38	0.25	223.13	-0.01	-0.01	NZ
HMLJYG		223.00	-0.12	-0.08	223.33	0.19	0.12	XX
JPAPNT		222.06	-1.06	-0.69	222.04	-1.10	-0.66	TA
KUG29D		224.25	1.13	0.74	224.45	1.31	0.79	TA
LBH37Q		222.27	-0.85	-0.56	222.57	-0.58	-0.35	NZ
M6RCDL		225.09	1.97	1.29	225.80	2.65	1.60	TA
N9LT3K		223.35	0.23	0.15	223.68	0.53	0.32	TA
PBRB2F		223.95	0.83	0.55	223.96	0.82	0.49	SH
Q787GB		222.46	-0.66	-0.43	222.26	-0.89	-0.53	TA
QUGLAF		222.27	-0.85	-0.56	222.07	-1.08	-0.65	TA
TN2H3H		220.53	-2.59	-1.70	220.57	-2.58	-1.55	TA
VENM9U		224.67	1.55	1.02	224.67	1.52	0.92	NZ
VZ98V4		223.23	0.11	0.07	222.94	-0.20	-0.12	MT
WKT4W9	X	213.86	-9.26	-6.08	214.34	-8.80	-5.30	TA
WNAWZ2		223.86	0.74	0.49	223.79	0.65	0.39	XX
WVR3X9		224.36	1.24	0.81	224.38	1.24	0.75	TA
X2RF3P		223.89	0.77	0.51	223.28	0.14	0.08	TA
X43NJG		223.37	0.25	0.16	223.30	0.16	0.09	XX
XMWYDQ		223.04	-0.08	-0.05	223.14	-0.01	0.00	TA
ZCK7R7		223.09	-0.03	-0.02	223.33	0.19	0.11	TA



Plastics Interlaboratory Testing Program

Report #138

Analysis 761

2nd Qtr 2026

DSC Melt Temperature

Summary Statistics	<u>Sample W17</u>	<u>Sample W18</u>
Grand Means	223.119 Degrees Celsius	223.142 Degrees Celsius
Std Dev Btwn Labs	1.523 Degrees Celsius	1.661 Degrees Celsius
Statistics based on 32 of 33 reporting participants		

Sample W17: PBT & Sample W18: PBT

Comments on Assigned Data Flags for Test #761

WKT4W9 (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of sample W17.

Key to Instrument Codes Reported by Participants

- | | | | |
|----|----------------------------|----|--|
| MT | Mettler Toledo Instruments | NZ | Netzsch Instruments |
| PE | Perkins Elmer Instruments | SH | Shimadzu |
| TA | TA Instruments | XX | Instrument manufacturer not specified by lab |



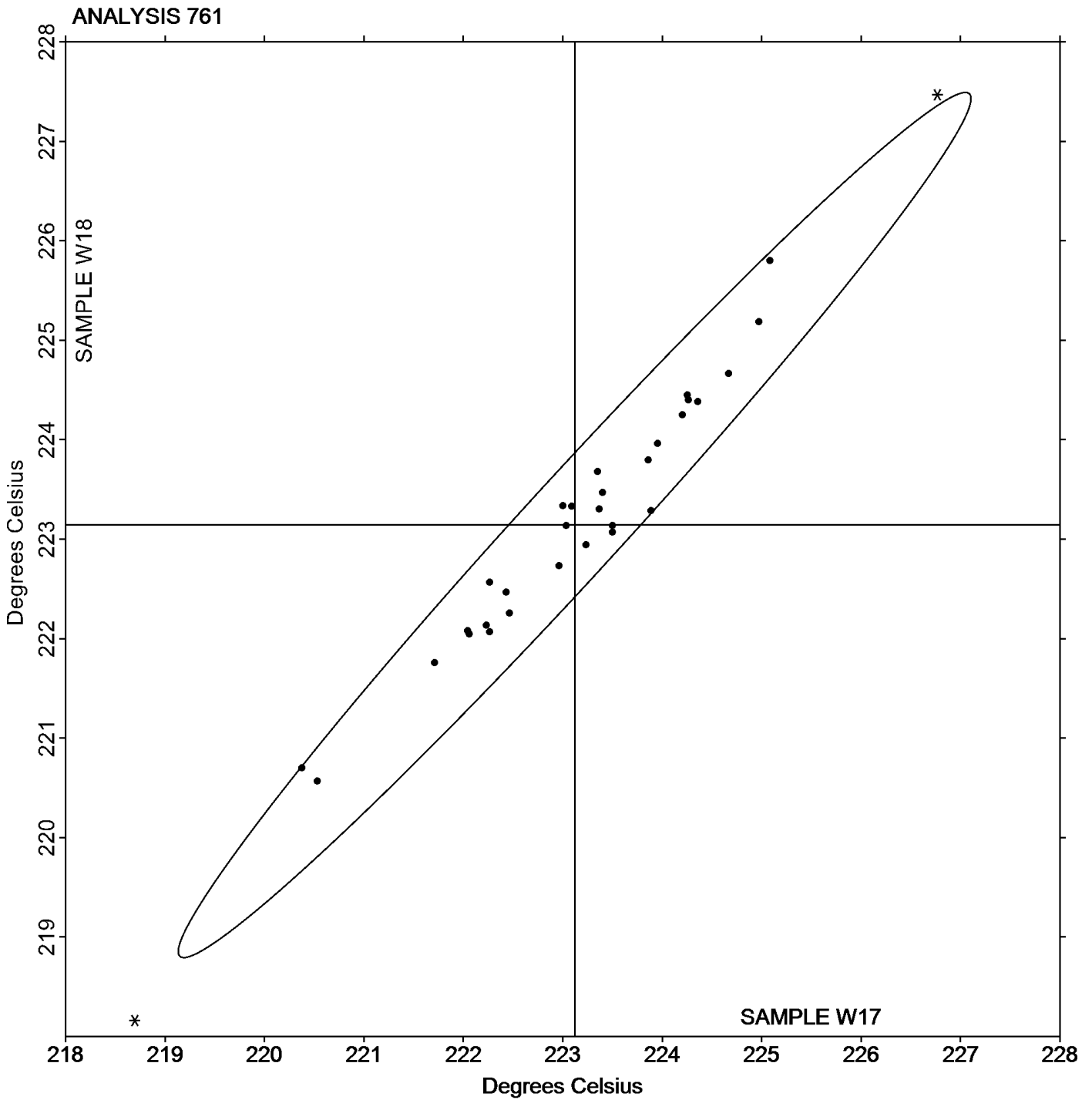
Plastics Interlaboratory Testing Program

Analysis 761 DSC Melt Temperature

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2nd Qtr 2026

Grand Mean Sample W17: 223.12 Degrees Celsius Grand Mean Sample W18: 223.14 Degrees Celsius





Plastics Interlaboratory Testing Program

Report #138

Analysis 762

2nd Qtr 2026

DSC Enthalpy of Crystallization

WebCode	Data Flag	Sample W17			Sample W18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2RY79C	*	61.26	12.58	2.91	57.24	9.15	2.34	PE
38PWY		47.62	-1.06	-0.25	47.16	-0.92	-0.24	TA
4MD2P8		46.78	-1.91	-0.44	45.72	-2.36	-0.60	TA
6GN94C		50.77	2.08	0.48	50.17	2.08	0.53	TA
6PFLQC		47.40	-1.29	-0.30	46.83	-1.26	-0.32	TA
99YLA6		51.56	2.88	0.67	52.02	3.93	1.00	TA
9LRDAT		45.90	-2.78	-0.64	45.87	-2.21	-0.56	MT
ABLT7		49.90	1.22	0.28	49.21	1.12	0.29	TA
CYDRKC		47.71	-0.97	-0.22	48.94	0.86	0.22	TA
EYQZNW		48.87	0.18	0.04	46.87	-1.22	-0.31	TA
GQVJCX		46.36	-2.33	-0.54	43.82	-4.27	-1.09	NZ
HMLJG		51.70	3.01	0.70	52.57	4.49	1.14	XX
JPAPNT		51.08	2.39	0.55	50.99	2.91	0.74	TA
KUG29D		45.21	-3.48	-0.81	44.24	-3.85	-0.98	TA
LBH37Q		46.30	-2.39	-0.55	42.86	-5.23	-1.33	NZ
M6RCDL		39.10	-9.58	-2.22	41.52	-6.57	-1.68	TA
Q787GB		49.78	1.10	0.26	49.33	1.24	0.32	TA
TN2H3H		52.59	3.91	0.91	52.69	4.60	1.17	TA
VENM9U		49.50	0.82	0.19	49.50	1.41	0.36	NZ
WKT4W9	X	82.48	33.80	7.83	83.43	35.34	9.02	TA
XMWYDQ		44.26	-4.42	-1.02	44.20	-3.89	-0.99	TA

Summary Statistics		
	Sample W17	Sample W18
Grand Means	48.682 Joules Per Gram	48.087 Joules Per Gram
Std Dev Btwn Labs	4.316 Joules Per Gram	3.919 Joules Per Gram
Statistics based on 20 of 21 reporting participants		

Sample W17: PBT & Sample W18: PBT

Comments on Assigned Data Flags for Test #762

WKT4W9 (X) - Data for both samples are high. Possible Systematic Error.

Key to Instrument Codes Reported by Participants

- MT Mettler Toledo Instruments
- PE Perkins Elmer Instruments
- XX Instrument manufacturer not specified by lab
- NZ Netzsch Instruments
- TA TA Instruments



Plastics Interlaboratory Testing Program

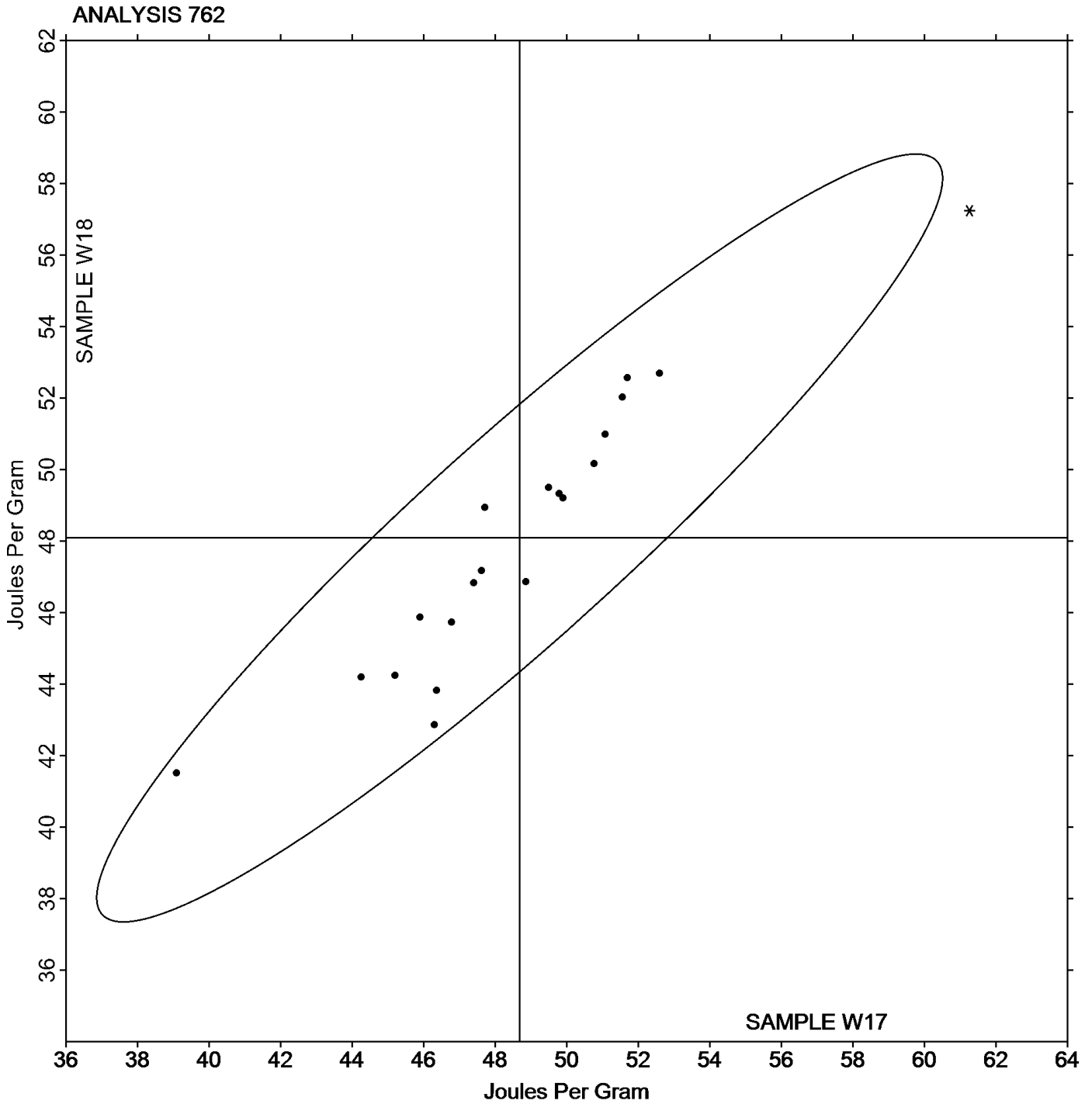
Analysis 762

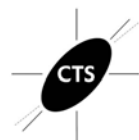
DSC Enthalpy of Crystallization

Report #138

2nd Qtr 2026

Grand Mean Sample W17: 48.682 Joules Per Gram Grand Mean Sample W18: 48.087 Joules Per Gram





Plastics Interlaboratory Testing Program

Report #138

Analysis 763

2nd Qtr 2026

DSC Enthalpy of Fusion

WebCode	Data Flag	Sample W17			Sample W18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2RY79C		45.49	1.41	0.26	41.15	-2.46	-0.46	PE
38PWVY		39.62	-4.47	-0.84	40.12	-3.49	-0.65	TA
4MD2P8		36.99	-7.09	-1.33	37.12	-6.49	-1.22	TA
6GN94C		54.27	10.18	1.91	52.43	8.82	1.65	TA
6PFLQC		38.53	-5.55	-1.04	37.02	-6.59	-1.23	TA
99YLA6		51.02	6.94	1.30	51.64	8.03	1.50	TA
9LRDAT		40.91	-3.17	-0.60	40.72	-2.89	-0.54	MT
ABLTK7		43.49	-0.59	-0.11	43.85	0.24	0.04	TA
CYDRKC		48.01	3.93	0.74	48.31	4.70	0.88	TA
EYQZNW		46.80	2.72	0.51	46.77	3.16	0.59	TA
GQVJCX		40.80	-3.28	-0.62	40.78	-2.83	-0.53	NZ
HMLJJG		43.89	-0.19	-0.04	43.33	-0.28	-0.05	XX
JPAPNT		48.79	4.71	0.88	46.86	3.25	0.61	TA
KUG29D		36.86	-7.22	-1.36	37.26	-6.35	-1.19	TA
LBH37Q		40.81	-3.28	-0.62	37.75	-5.86	-1.10	NZ
M6RCDL		41.52	-2.57	-0.48	44.51	0.90	0.17	TA
Q787GB		47.49	3.41	0.64	47.66	4.05	0.76	TA
TN2H3H		54.54	10.46	1.96	54.30	10.69	2.00	TA
VENM9U		42.79	-1.29	-0.24	42.38	-1.23	-0.23	NZ
WKT4W9	X	75.78	31.70	5.95	75.95	32.34	6.06	TA
XMWYDQ		39.03	-5.06	-0.95	38.27	-5.34	-1.00	TA

Summary Statistics		Sample W17	Sample W18
Grand Means		44.082 Joules Per Gram	43.610 Joules Per Gram
Std Dev Btwn Labs		5.325 Joules Per Gram	5.337 Joules Per Gram
Statistics based on 20 of 21 reporting participants			

Sample W17: PBT & Sample W18: PBT

Comments on Assigned Data Flags for Test #763

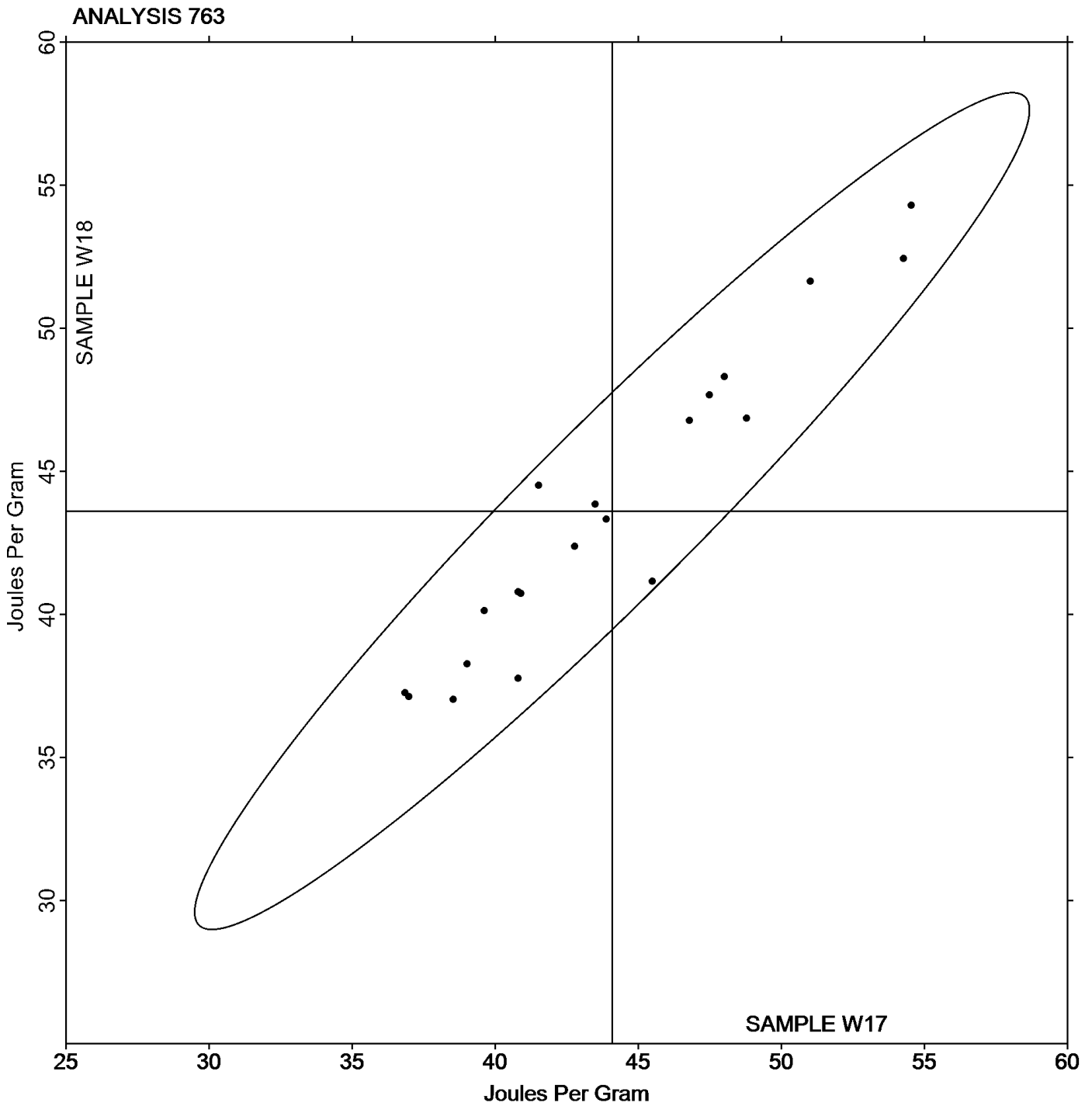
WKT4W9 (X) - Data for both samples are high. Inconsistent within the determinations of both samples.

Key to Instrument Codes Reported by Participants

- MT Mettler Toledo Instruments
- PE Perkins Elmer Instruments
- XX Instrument manufacturer not specified by lab
- NZ Netzsch Instruments
- TA TA Instruments



Grand Mean Sample W17: 44.082 Joules Per Gram Grand Mean Sample W18: 43.610 Joules Per Gram





Plastics Interlaboratory Testing Program

Report #138

Analysis 764

2nd Qtr 2026

DSC Glass Transition Temperature

WebCode	Data Flag	Sample V17			Sample V18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2RY79C		77.88	-3.57	-2.08	78.50	-2.82	-1.89	PE
38PWY		78.84	-2.62	-1.53	78.72	-2.60	-1.74	TA
4MD2P8		81.00	-0.45	-0.26	81.03	-0.29	-0.19	TA
6GN94C		83.07	1.61	0.94	82.77	1.45	0.97	TA
6PFLQC		81.50	0.05	0.03	81.37	0.05	0.03	TA
8X3Y63		79.06	-2.39	-1.40	79.57	-1.75	-1.18	TA
99YLA6		82.61	1.16	0.68	82.69	1.37	0.92	TA
9LRDAT		81.91	0.45	0.27	81.94	0.62	0.41	MT
ABLTK7		80.20	-1.25	-0.73	80.13	-1.19	-0.80	TA
CYDRKC		81.13	-0.32	-0.19	80.87	-0.45	-0.30	TA
EYQZNW		80.43	-1.02	-0.59	80.40	-0.92	-0.62	TA
GQVJCX		83.43	1.98	1.16	82.87	1.55	1.04	NZ
HMLJGG		83.33	1.88	1.10	83.11	1.79	1.20	XX
JPAPNT	*	81.48	0.03	0.02	80.15	-1.17	-0.78	TA
KUG29D		81.87	0.41	0.24	81.47	0.15	0.10	TA
LBH37Q		83.53	2.08	1.22	83.33	2.01	1.35	NZ
M6RCDL		81.97	0.52	0.30	81.43	0.11	0.08	TA
PBRB2F	X	72.43	-9.02	-5.27	76.14	-5.18	-3.47	SH
Q787GB		83.01	1.55	0.91	82.74	1.42	0.95	TA
TN2H3H		78.23	-3.22	-1.88	79.17	-2.15	-1.44	TA
VENM9U		82.00	0.55	0.32	82.00	0.68	0.45	NZ
X2RF3P		83.30	1.84	1.08	83.30	1.98	1.33	TA
XMWYDQ		82.16	0.70	0.41	81.51	0.19	0.13	TA

Summary Statistics		
	Sample V17	Sample V18
Grand Means	81.452 Degrees Celsius	81.321 Degrees Celsius
Stnd Dev Btwn Labs	1.712 Degrees Celsius	1.492 Degrees Celsius
Statistics based on 22 of 23 reporting participants		

Sample V17: PET & Sample V18: PET

Comments on Assigned Data Flags for Test #764

PBRB2F (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of sample V17.



Plastics Interlaboratory Testing Program

Report #138

Analysis 764

2nd Qtr 2026

DSC Glass Transition Temperature

Key to Instrument Codes Reported by Participants

MT	Mettler Toledo Instruments	NZ	Netzsch Instruments
PE	Perkins Elmer Instruments	SH	Shimadzu
TA	TA Instruments	XX	Instrument manufacturer not specified by lab



Plastics Interlaboratory Testing Program

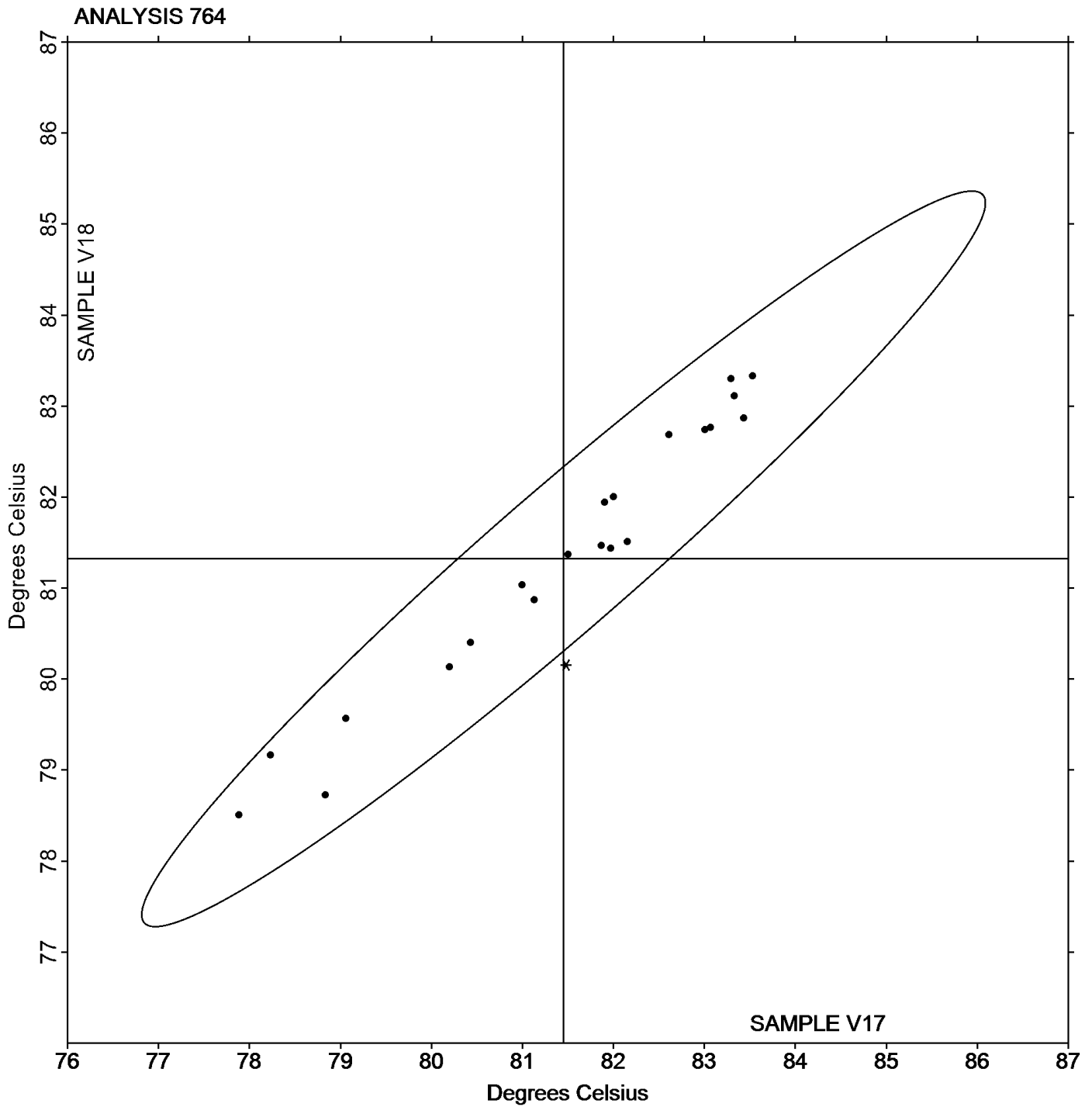
Analysis 764

DSC Glass Transition Temperature

Report #138

2nd Qtr 2026

Grand Mean Sample V17: 81.452 Degrees Celsius Grand Mean Sample V18: 81.321 Degrees Celsius





Plastics Interlaboratory Testing Program

Report #138

Analysis 765

2nd Qtr 2026

Research Crystallization Peak Temperature

WebCode	Data Flag	Sample W17			Sample W18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
4MD2P8		176.50	1.09	0.22	176.13	1.38	0.30	TA
6GN94C		182.70	7.29	1.45	182.53	7.78	1.70	TA
8EP63Z		169.50	-5.91	-1.18	169.47	-5.29	-1.15	TA
99YLA6		179.85	4.44	0.88	179.33	4.57	1.00	TA
ABLTk7		170.43	-4.98	-0.99	170.17	-4.59	-1.00	TA
EYQZNW		179.67	4.26	0.85	177.70	2.94	0.64	TA
KUG29D		180.59	5.18	1.03	177.97	3.21	0.70	TA
LBH37Q		170.10	-5.31	-1.06	169.93	-4.82	-1.05	NZ
Q787GB		173.35	-2.06	-0.41	173.00	-1.76	-0.38	TA
ZTBJBM		171.40	-4.01	-0.80	171.32	-3.44	-0.75	SH

Summary Statistics		
	Sample W17	Sample W18
Grand Means	175.409 Degrees Celsius	174.755 Degrees Celsius
Std Dev Btwn Labs	5.025 Degrees Celsius	4.589 Degrees Celsius
Statistics based on 10 of 10 reporting participants		

Sample W17: PBT & Sample W18: PBT

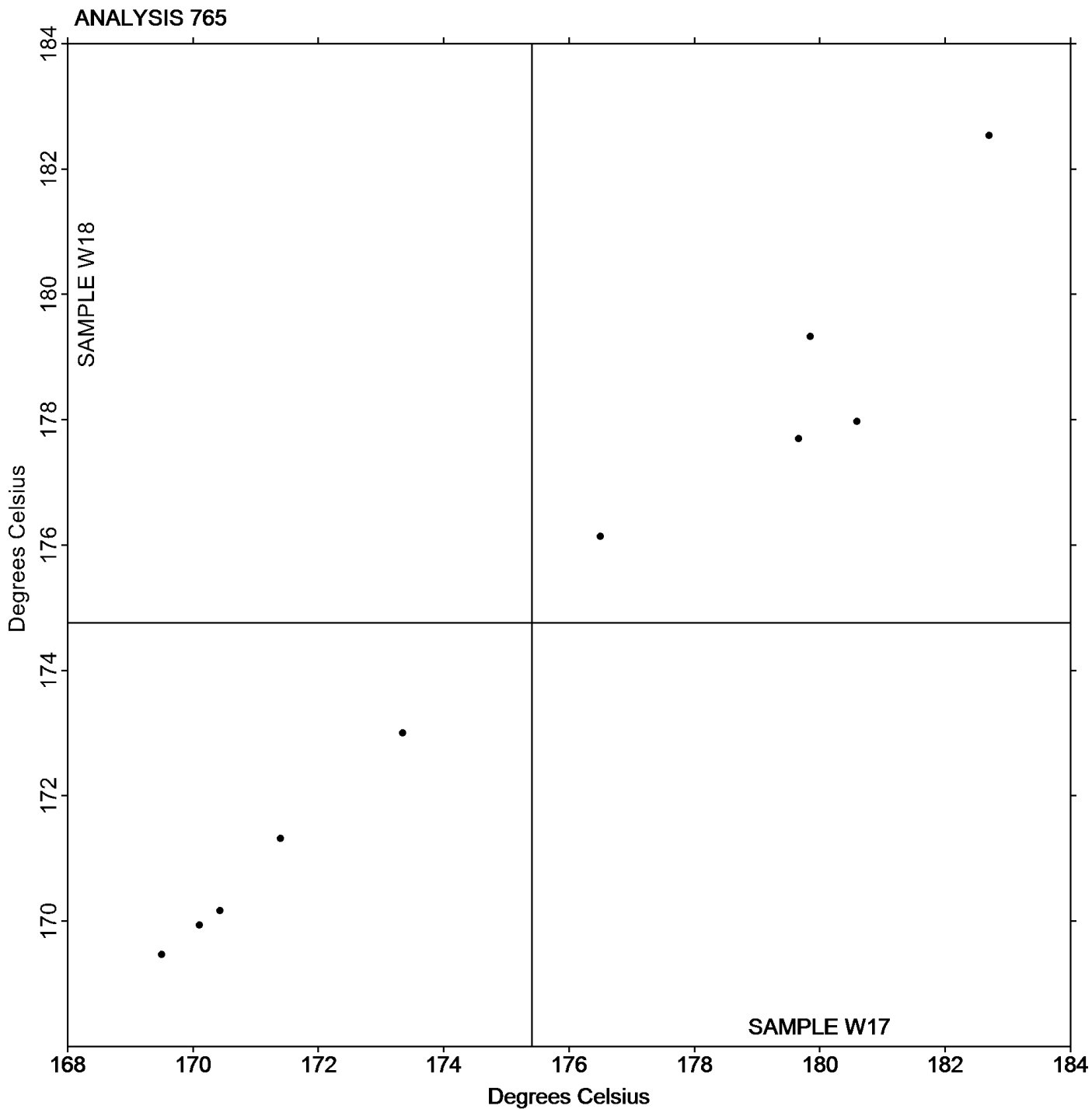
Key to Instrument Codes Reported by Participants

NZ Netzsch Instruments
 TA TA Instruments

SH Shimadzu



Grand Mean Sample W17: 175.41 Degrees Celsius Grand Mean Sample W18: 174.76 Degrees Celsius



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

Report #138

Analysis 766

2nd Qtr 2026

Research Melting Peak Temperature

WebCode	Data Flag	Sample W17			Sample W18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
4MD2P8		222.43	-0.98	-0.69	222.47	-1.12	-0.67	TA
6GN94C		224.20	0.78	0.55	224.40	0.81	0.48	TA
8EP63Z		222.53	-0.88	-0.62	222.37	-1.22	-0.73	TA
99YLA6		224.21	0.79	0.56	224.25	0.66	0.39	TA
ABLTK7		223.40	-0.02	-0.01	223.47	-0.12	-0.07	TA
EYQZNW		226.83	3.42	2.41	227.47	3.88	2.31	TA
KUG29D		224.26	0.84	0.60	225.24	1.65	0.98	TA
LBH37Q		222.27	-1.15	-0.81	222.57	-1.02	-0.61	NZ
Q787GB		222.46	-0.95	-0.67	222.26	-1.33	-0.79	TA
ZCK7R7		223.09	-0.32	-0.23	223.33	-0.26	-0.15	TA
ZTBJBM		221.89	-1.53	-1.08	221.67	-1.92	-1.14	SH

Summary Statistics		Sample W17	Sample W18
Grand Means		223.416 Degrees Celsius	223.588 Degrees Celsius
Std Dev Btwn Labs		1.416 Degrees Celsius	1.679 Degrees Celsius
Statistics based on 11 of 11 reporting participants			

Sample W17: PBT & Sample W18: PBT

Key to Instrument Codes Reported by Participants

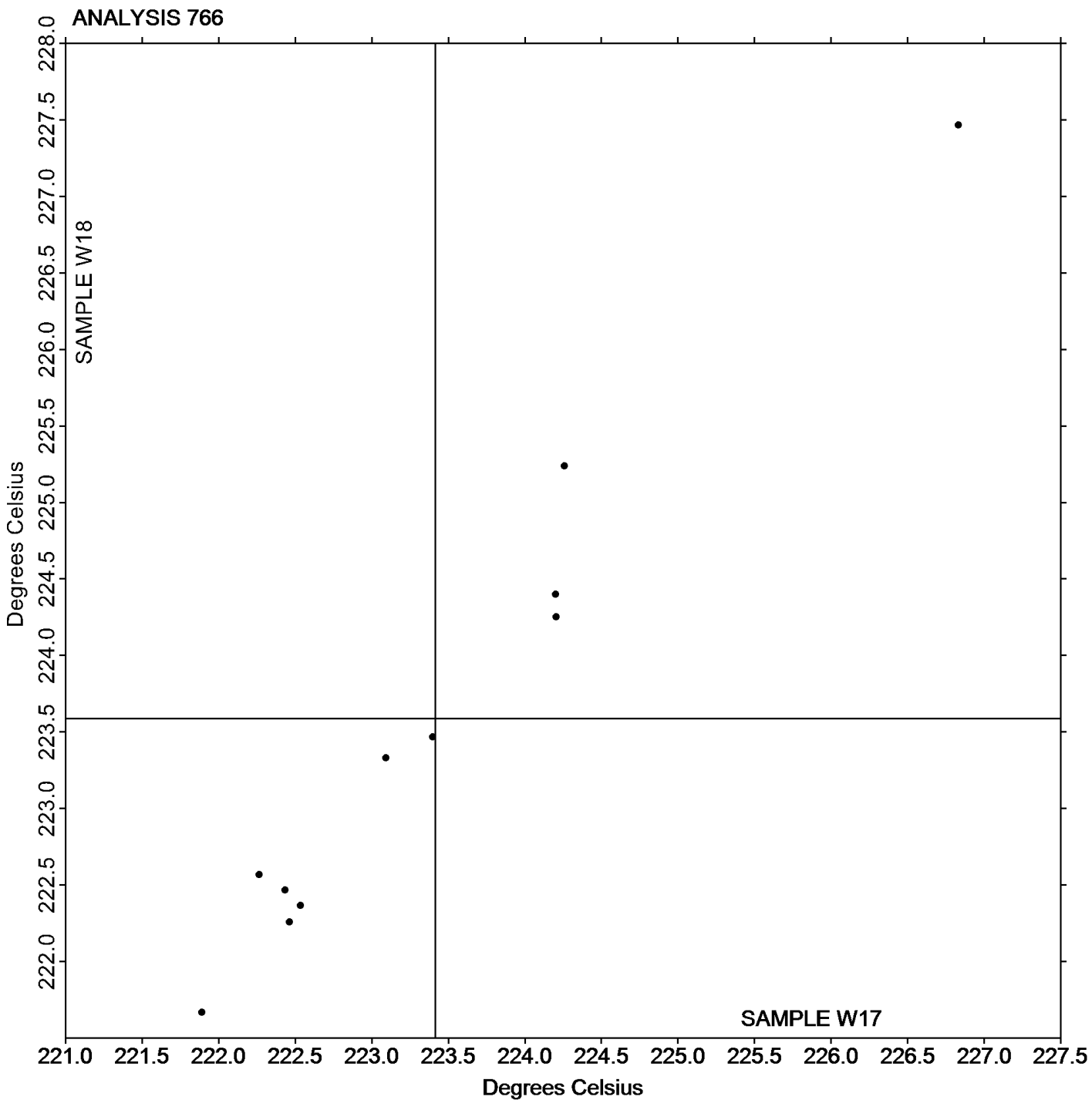
NZ Netzsch Instruments

SH Shimadzu

TA TA Instruments



Grand Mean Sample W17: 223.42 Degrees Celsius Grand Mean Sample W18: 223.59 Degrees Celsius



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

Report #138

Analysis 767

2nd Qtr 2026

Research Heat of Crystallization

WebCode	Data Flag	Sample W17			Sample W18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
4MD2P8		46.78	-1.66	-0.66	45.72	-2.01	-0.63	TA
6GN94C		50.77	2.33	0.93	51.40	3.67	1.16	TA
8EP63Z		46.96	-1.48	-0.59	47.02	-0.71	-0.22	TA
99YLA6		51.56	3.13	1.25	52.02	4.29	1.35	TA
ABLTK7		49.90	1.47	0.59	49.21	1.48	0.47	TA
EYQZNW		49.87	1.43	0.57	48.20	0.47	0.15	TA
KUG29D		44.03	-4.41	-1.76	43.82	-3.91	-1.23	TA
LBH37Q		46.30	-2.14	-0.86	42.86	-4.87	-1.54	NZ
Q787GB		49.78	1.35	0.54	49.33	1.60	0.50	TA

Summary Statistics		
	Sample W17	Sample W18
Grand Means	48.438 Joules Per Gram	47.731 Joules Per Gram
Stnd Dev Btwn Labs	2.504 Joules Per Gram	3.169 Joules Per Gram
Statistics based on 9 of 9 reporting participants		

Sample W17: PBT & Sample W18: PBT

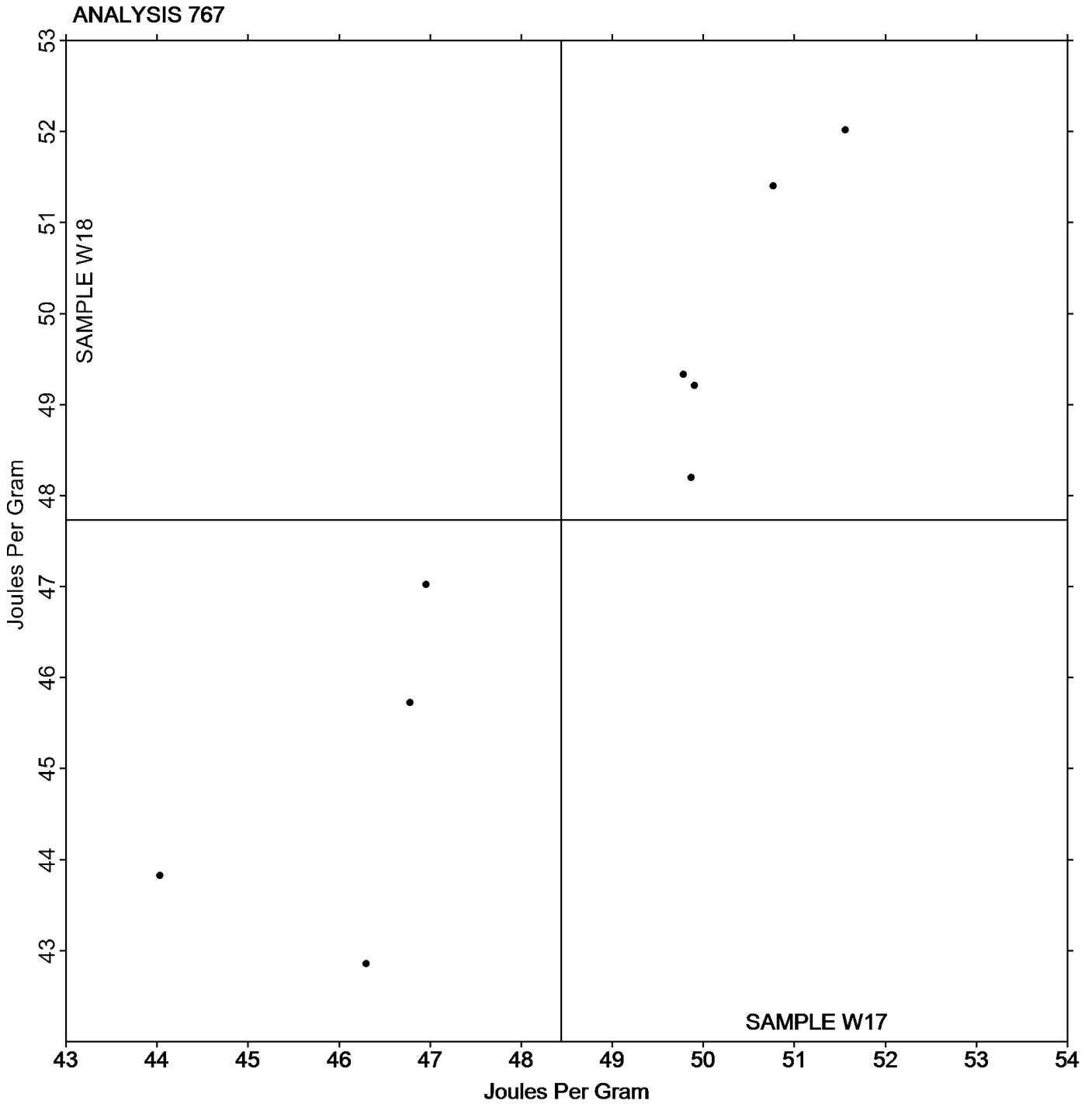
Key to Instrument Codes Reported by Participants

NZ Netzsch Instruments

TA TA Instruments



Grand Mean Sample W17: 48.438 Joules Per Gram Grand Mean Sample W18: 47.731 Joules Per Gram



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

Report #138

Analysis 768

2nd Qtr 2026

Research Heat of Fusion

WebCode	Data Flag	Sample W17			Sample W18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
4MD2P8		36.99	-7.93	-1.37	37.12	-7.44	-1.13	XX
6GN94C		53.10	8.18	1.41	54.23	9.68	1.46	TA
8EP63Z		47.27	2.35	0.41	46.42	1.87	0.28	TA
99YLA6		51.02	6.10	1.05	51.64	7.08	1.07	TA
ABLTK7		43.50	-1.42	-0.24	43.85	-0.71	-0.11	TA
EYQZNW		47.30	2.38	0.41	46.97	2.41	0.36	TA
KUG29D		36.81	-8.11	-1.40	35.36	-9.20	-1.39	TA
LBH37Q		40.81	-4.12	-0.71	37.75	-6.80	-1.03	NZ
Q787GB		47.49	2.57	0.44	47.66	3.10	0.47	TA

Summary Statistics		
	Sample W17	Sample W18
Grand Means	44.922 Joules Per Gram	44.555 Joules Per Gram
Stnd Dev Btwn Labs	5.803 Joules Per Gram	6.609 Joules Per Gram
Statistics based on 9 of 9 reporting participants		

Sample W17: PBT & Sample W18: PBT

Key to Instrument Codes Reported by Participants

- NZ Netzsch Instruments
- TA TA Instruments
- XX Instrument manufacturer not specified by lab



Plastics Interlaboratory Testing Program

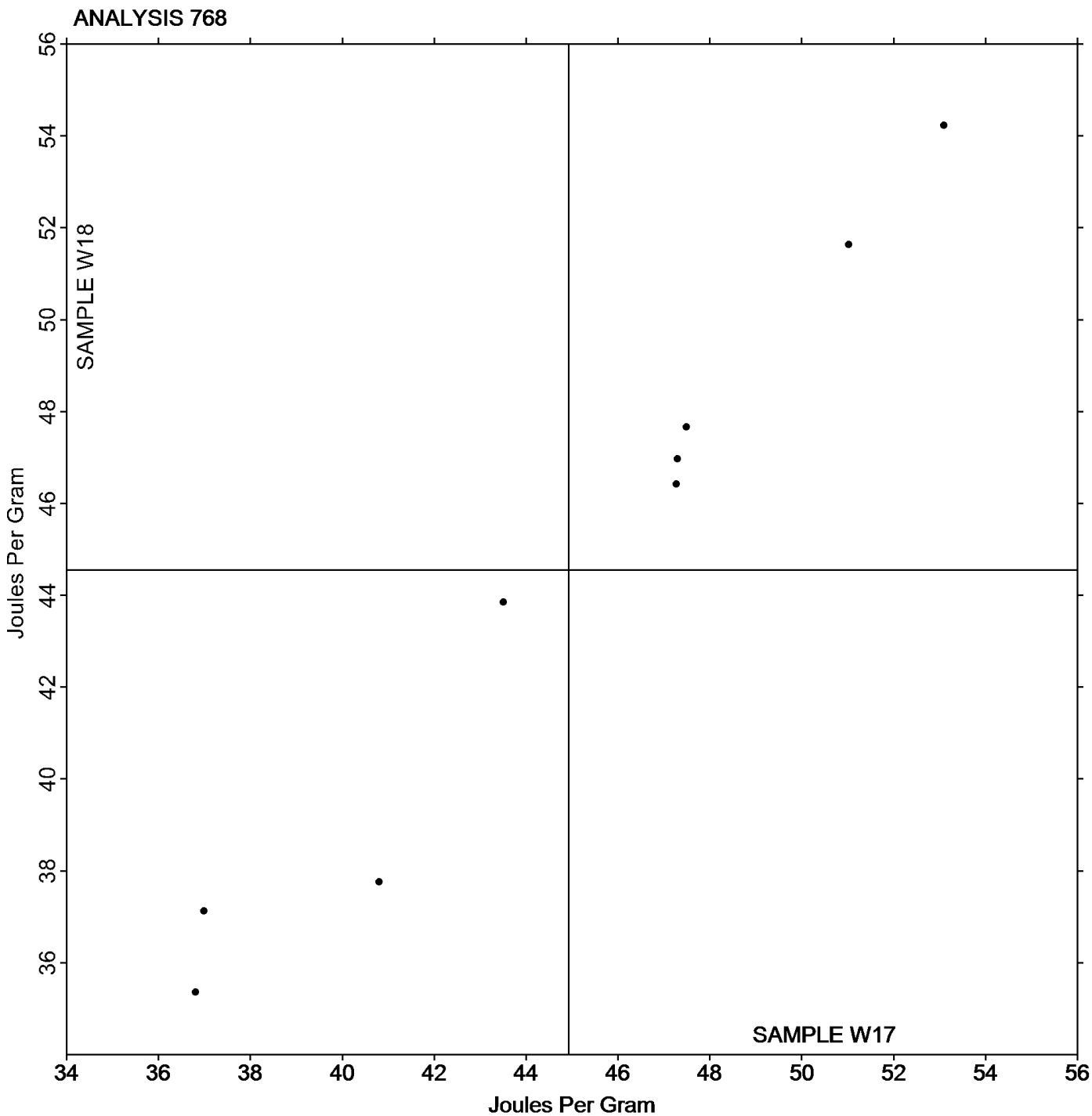
Analysis 768

Research Heat of Fusion

Report #138

2nd Qtr 2026

Grand Mean Sample W17: 44.922 Joules Per Gram Grand Mean Sample W18: 44.555 Joules Per Gram



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

Report #138

Analysis 769

2nd Qtr 2026

Research Glass Transition Temperature

WebCode	Data Flag	Sample V17			Sample V18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
4MD2P8		81.00	-0.96	-0.86	81.03	-0.89	-0.81	TA
6GN94C		83.07	1.11	0.99	82.77	0.84	0.77	TA
8EP63Z		82.07	0.11	0.10	82.17	0.24	0.22	TA
99YLA6		82.61	0.66	0.59	82.69	0.76	0.70	TA
ABLTK7		80.20	-1.76	-1.57	80.13	-1.79	-1.64	TA
EYQZNW		80.30	-1.66	-1.48	80.27	-1.66	-1.51	TA
KUG29D		82.28	0.32	0.29	82.01	0.09	0.08	TA
LBH37Q		83.53	1.58	1.41	83.33	1.41	1.29	NZ
Q787GB		82.34	0.38	0.34	82.74	0.82	0.75	TA
ZTBJBM		82.17	0.21	0.19	82.10	0.18	0.16	SH

Summary Statistics		
	Sample V17	Sample V18
Grand Means	81.957 Degrees Celsius	81.924 Degrees Celsius
Std Dev Btwn Labs	1.116 Degrees Celsius	1.095 Degrees Celsius
Statistics based on 10 of 10 reporting participants		

Sample V17: PET & Sample V18: PET

Key to Instrument Codes Reported by Participants

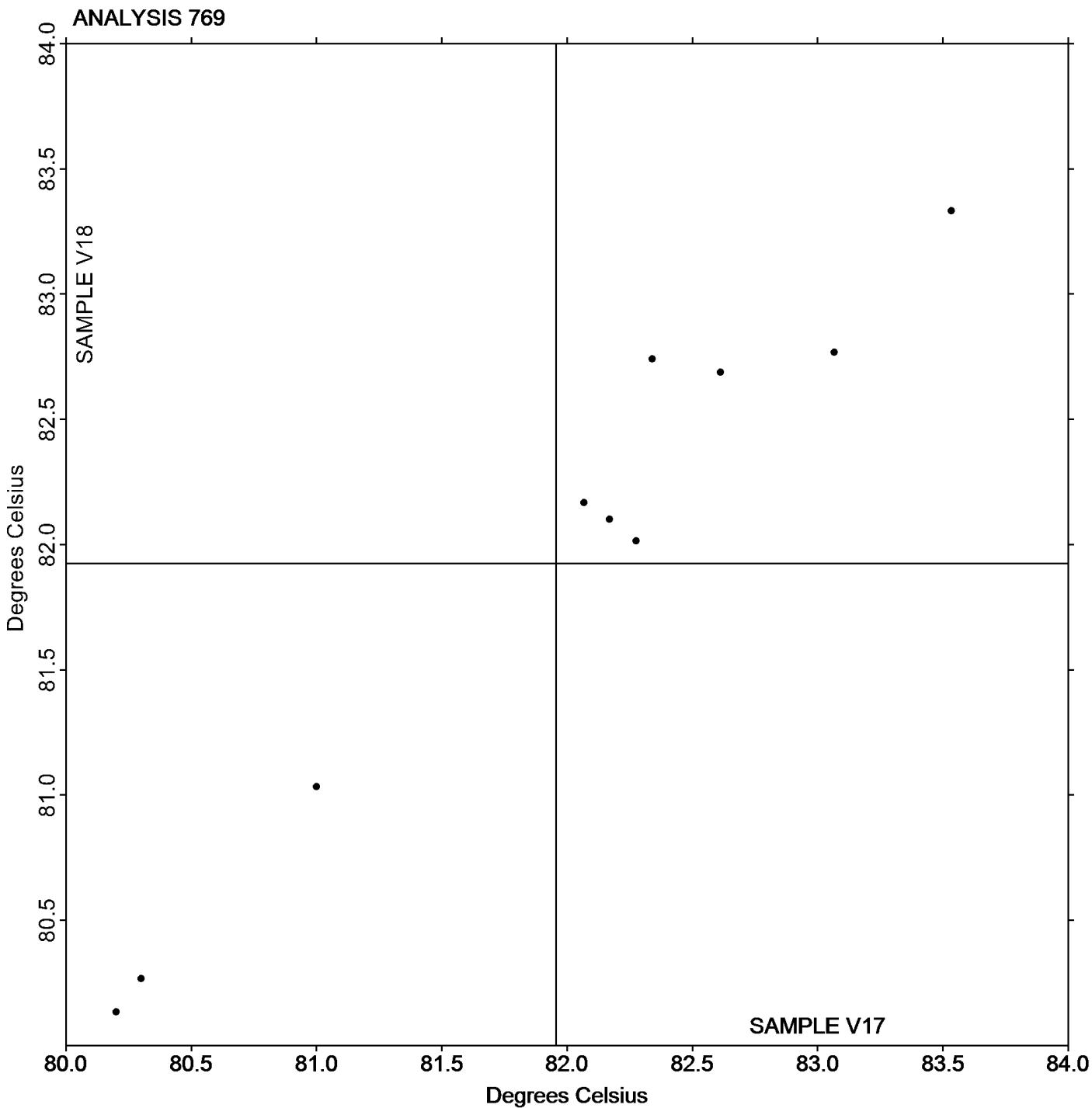
NZ Netzsch Instruments

SH Shimadzu

TA TA Instruments



Grand Mean Sample V17: 81.957 Degrees Celsius Grand Mean Sample V18: 81.924 Degrees Celsius



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

Report #138

Analysis 770

2nd Qtr 2026

Tensile Stress at Yield, Film Samples - psi

WebCode	Data Flag	Sample B17			Sample B18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
339QX4		1,961	137	0.94	1,960	142	0.92	IN
3RTC3B		1,829	5	0.03	1,785	-33	-0.22	IN
3WKJKJ		1,924	99	0.68	1,867	48	0.31	TH
6CAXQ9		1,625	-199	-1.36	1,803	-15	-0.10	XX
7JBAM6		1,803	-22	-0.15	2,109	290	1.89	MT
8EP63Z		1,789	-35	-0.24	1,684	-134	-0.88	IN
9GC4WP		1,695	-129	-0.88	1,611	-207	-1.35	IN
AD8WR4		1,912	88	0.60	1,779	-39	-0.26	XX
EUEK8Y		1,979	155	1.06	1,711	-107	-0.70	XX
EXYCH2	X	2,899	1,075	7.35	2,933	1,114	7.27	IN
MAZ94V		1,481	-344	-2.35	1,613	-206	-1.34	IN
NHTZRF		1,977	153	1.04	1,840	22	0.14	IM
NWT8WP		1,561	-263	-1.80	1,567	-252	-1.64	XX
PBRB2F		1,900	76	0.52	2,094	276	1.80	WZ
QHKH42		1,806	-18	-0.12	1,804	-15	-0.10	IN
TPHEVG		1,863	39	0.26	1,987	169	1.10	XX
UADAQV		1,947	123	0.84	1,802	-17	-0.11	SH
XR9AL7		1,856	32	0.22	1,823	4	0.03	IN
ZVEGLF		1,928	104	0.71	1,894	76	0.49	SH

Summary Statistics		
	Sample B17	Sample B18
Grand Means	1,824.1 psi	1,818.4 psi
Stnd Dev Btwn Labs	146.2 psi	153.2 psi
Statistics based on 18 of 19 reporting participants		

Sample B17: LDPE & Sample B18: LDPE

Comments on Assigned Data Flags for Test #770

EXYCH2 (X) - Data for both samples are high. Inconsistent within the determinations of both samples.

Key to Instrument Codes Reported by Participants

- | | |
|---|-------------|
| IM Instru-Met Instruments | IN Instron |
| MT MTS/Sintech | SH Shimadzu |
| TH Thwing Albert | WZ Zwick |
| XX Instrument manufacturer not specified by lab | |



Plastics Interlaboratory Testing Program

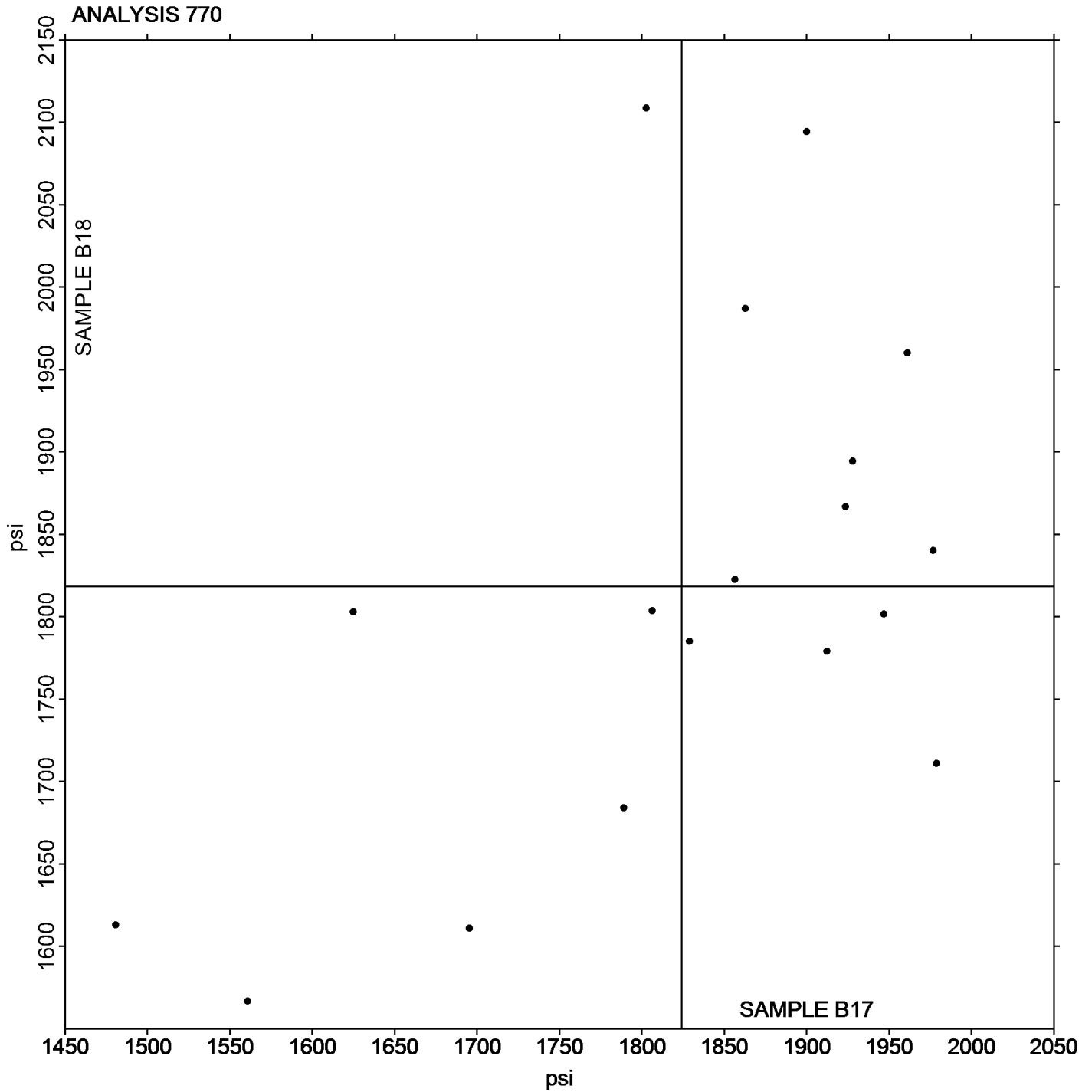
Analysis 770

Tensile Stress at Yield, Film Samples - psi

Report #138

2nd Qtr 2026

Grand Mean Sample B17: 1,824.11 psi Grand Mean Sample B18: 1,818.45 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

Report #138

Analysis 771

2nd Qtr 2026

Tensile Stress at Break, Film Samples - psi

WebCode	Data Flag	Sample B17			Sample B18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
339QX4		5,310	1,081	0.83	5,202	969	0.75	IN
3RTC3B		4,721	492	0.38	4,377	144	0.11	IN
3WKJKJ		5,054	825	0.63	4,885	652	0.51	TH
6CAXQ9		2,068	-2,161	-1.65	2,312	-1,921	-1.50	XX
7JBAM6		4,282	53	0.04	4,775	542	0.42	MT
8EP63Z		5,343	1,114	0.85	5,080	847	0.66	IN
9GC4WP		4,839	610	0.47	4,687	453	0.35	IN
AD8WR4		1,959	-2,270	-1.73	2,044	-2,189	-1.70	XX
EUEK8Y		2,127	-2,102	-1.61	2,008	-2,225	-1.73	XX
EXYCH2		2,899	-1,330	-1.02	2,698	-1,535	-1.20	IN
MAZ94V		4,390	161	0.12	4,594	361	0.28	IN
NHTZRF		4,755	526	0.40	3,995	-238	-0.19	IM
NWT8WP		1,875	-2,354	-1.80	2,121	-2,112	-1.64	XX
PBRB2F	*	4,650	421	0.32	5,604	1,371	1.07	WZ
QHKH42		5,871	1,642	1.25	5,691	1,458	1.14	IN
RZGMNF		5,177	948	0.72	5,042	808	0.63	TH
TPHEVG		3,928	-300	-0.23	3,985	-248	-0.19	XX
UADAQV		5,454	1,225	0.94	5,348	1,115	0.87	SH
XR9AL7		5,508	1,279	0.98	5,734	1,501	1.17	IN
ZVEGLF		4,367	139	0.11	4,481	248	0.19	SH

Summary Statistics		
	Sample B17	Sample B18
Grand Means	4,228.9 psi	4,233.1 psi
Stnd Dev Btwn Labs	1,309.6 psi	1,283.8 psi
Statistics based on 20 of 20 reporting participants		

Sample B17: LDPE & Sample B18: LDPE

Key to Instrument Codes Reported by Participants

- | | | | |
|----|--|----|----------|
| IM | Instru-Met Instruments | IN | Instron |
| MT | MTS/Sintech | SH | Shimadzu |
| TH | Thwing Albert | WZ | Zwick |
| XX | Instrument manufacturer not specified by lab | | |



Plastics Interlaboratory Testing Program

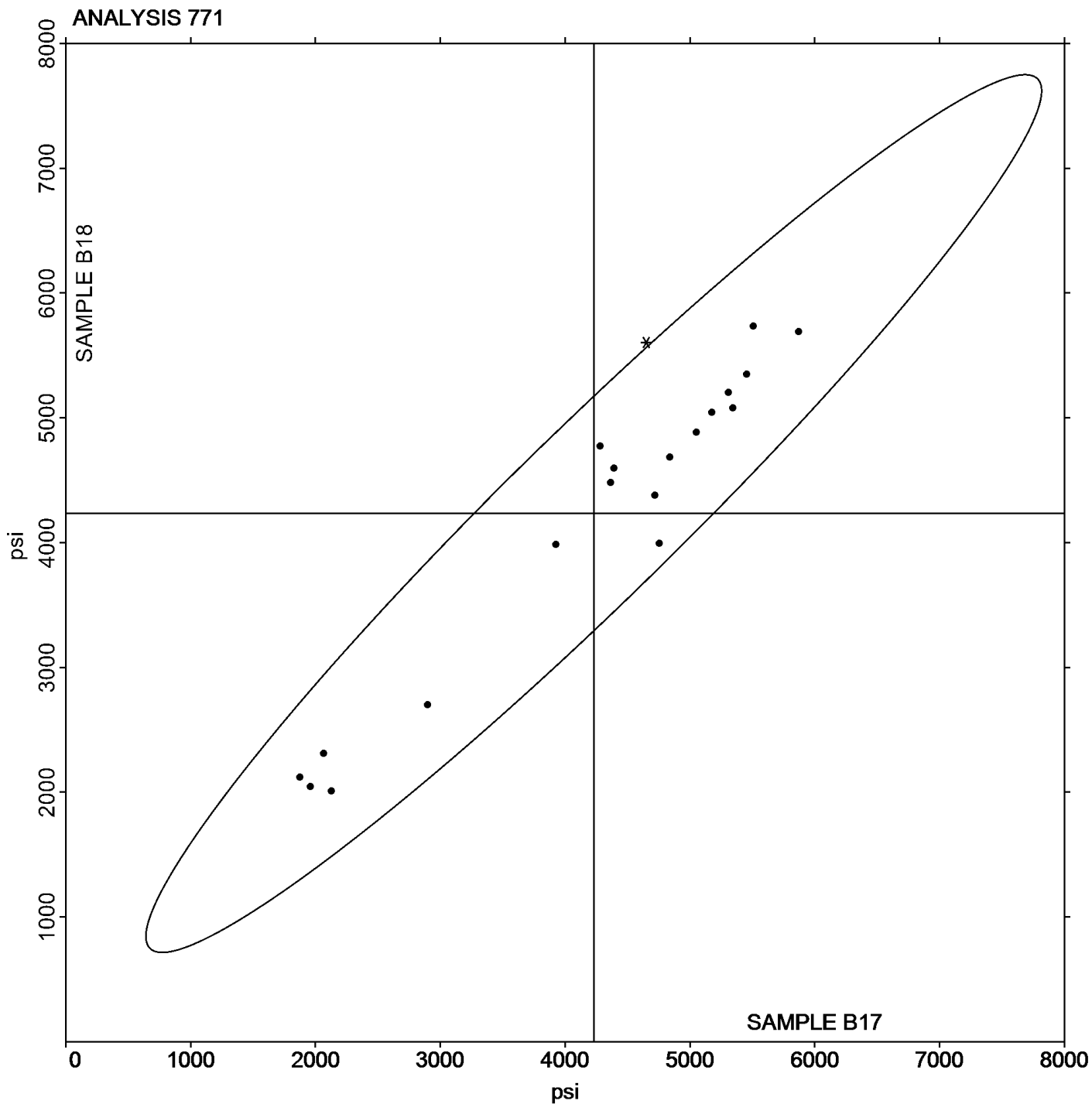
Report #138

Analysis 771

2nd Qtr 2026

Tensile Stress at Break, Film Samples - psi

Grand Mean Sample B17: 4,228.87 psi Grand Mean Sample B18: 4,233.09 psi





Plastics Interlaboratory Testing Program

Report #138

Analysis 772

2nd Qtr 2026

Percent Elongation at Yield, Films

WebCode	Data Flag	Sample B17			Sample B18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
339QX4		67.41	10.78	0.52	58.69	5.76	0.29	IN
3RTC3B		75.59	18.96	0.91	67.96	15.03	0.77	IN
3WKJKJ	X	752.20	695.57	33.34	754.00	701.07	35.83	OA
7JBAM6		66.91	10.28	0.49	64.02	11.09	0.57	MT
8EP63Z		56.05	-0.58	-0.03	41.38	-11.55	-0.59	IN
9GC4WP		67.43	10.80	0.52	63.40	10.47	0.54	IN
EXYCH2		35.50	-21.13	-1.01	34.00	-18.93	-0.97	IN
MAZ94V		63.43	6.80	0.33	59.10	6.17	0.32	IN
NHTZRF		71.45	14.82	0.71	69.49	16.56	0.85	IM
PBRB2F		54.90	-1.73	-0.08	49.30	-3.63	-0.19	WZ
QHKH42		8.06	-48.57	-2.33	8.00	-44.93	-2.30	IN
RZGMNF		69.28	12.65	0.61	60.93	8.00	0.41	TH
TPHEVG	*	53.18	-3.45	-0.17	67.84	14.90	0.76	XX
UADAQV		66.91	10.28	0.49	63.15	10.22	0.52	SH
XR9AL7		16.31	-40.32	-1.93	16.35	-36.58	-1.87	IN
ZVEGLF		77.04	20.41	0.98	70.36	17.43	0.89	SH

Summary Statistics		
	Sample B17	Sample B18
Grand Means	56.630 Percent	52.931 Percent
Stnd Dev Btwn Labs	20.860 Percent	19.568 Percent
Statistics based on 15 of 16 reporting participants		

Sample B17: LDPE & Sample B18: LDPE

Comments on Assigned Data Flags for Test #772

3WKJKJ (X) - Extreme data.

Key to Instrument Codes Reported by Participants

IM Instru-Met Instruments	IN Instron
MT MTS/Sintech	OA Oakland Testing
SH Shimadzu	TH Thwing Albert
WZ Zwick	XX Instrument manufacturer not specified by lab



Plastics Interlaboratory Testing Program

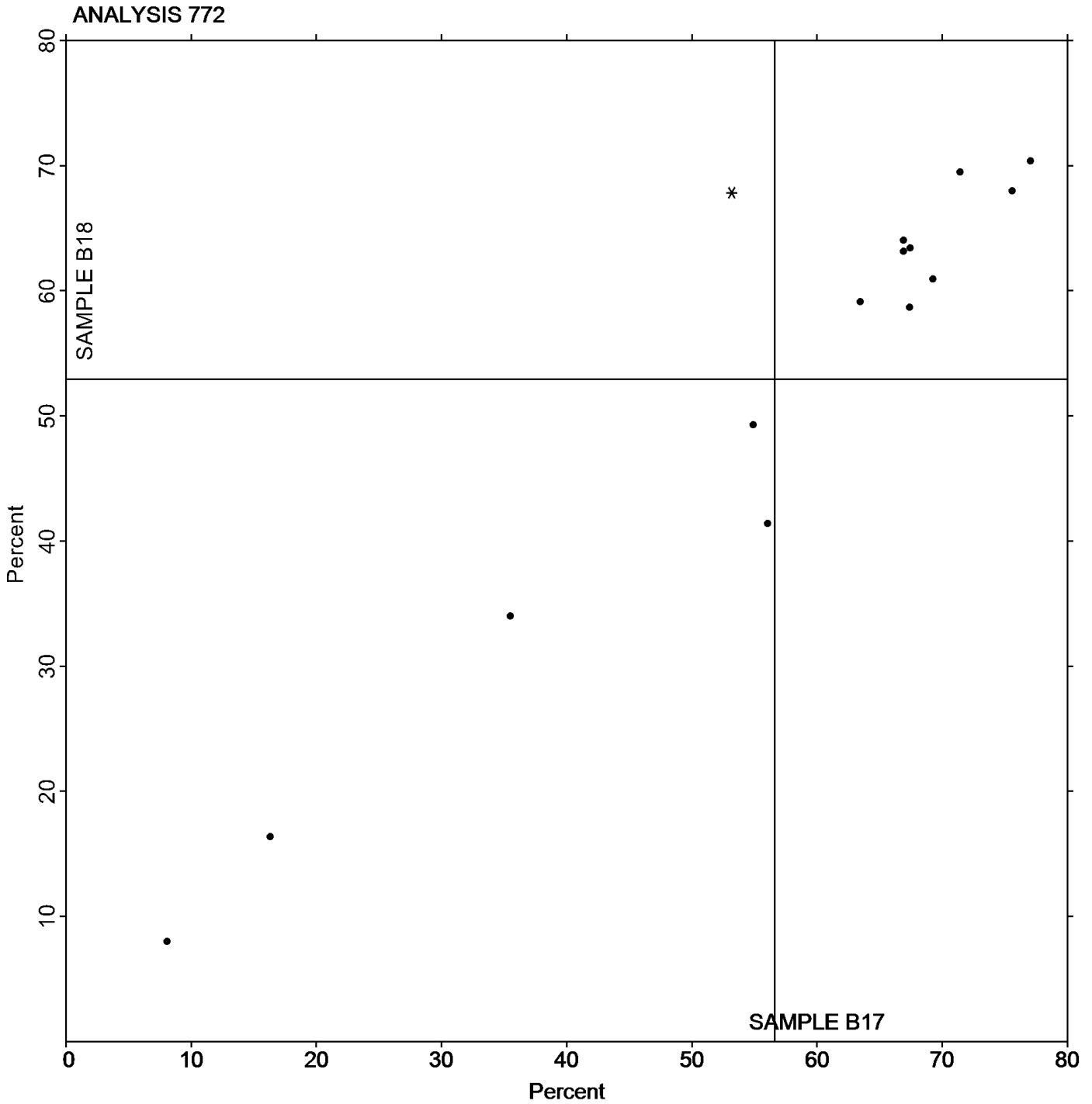
Analysis 772

Percent Elongation at Yield, Films

Report #138

2nd Qtr 2026

Grand Mean Sample B17: 56.630 Percent Grand Mean Sample B18: 52.931 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

Report #138

Analysis 773

2nd Qtr 2026

Percent Elongation at Break, Film Samples

WebCode	Data Flag	Sample B17			Sample B18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
339QX4		787.2	64.7	0.38	807.1	58.5	0.33	IN
3RTC3B		818.7	96.2	0.56	820.5	71.8	0.40	IN
7JBAM6		694.5	-28.0	-0.16	691.3	-57.4	-0.32	MT
8EP63Z		633.8	-88.7	-0.52	662.1	-86.6	-0.48	IN
9GC4WP		805.1	82.6	0.48	852.3	103.7	0.58	IN
EXYCH2		324.0	-398.5	-2.33	332.0	-416.7	-2.32	IN
MAZ94V		740.9	18.4	0.11	735.4	-13.3	-0.07	IN
NHTZRF		789.4	66.9	0.39	798.4	49.7	0.28	IM
PBRB2F		511.0	-211.5	-1.24	565.0	-183.7	-1.02	WZ
QHKH42		651.8	-70.7	-0.41	669.5	-79.2	-0.44	IN
RZGMNF		1,065.2	342.6	2.00	1,150.7	402.0	2.24	TH
TPHEVG		909.5	186.9	1.09	928.3	179.7	1.00	XX
UADAQV		717.3	-5.2	-0.03	753.8	5.1	0.03	SH
XR9AL7		613.9	-108.6	-0.64	664.2	-84.4	-0.47	IN
ZVEGLF		775.6	53.1	0.31	799.2	50.5	0.28	SH

Summary Statistics		
	Sample B17	Sample B18
Grand Means	722.52 Percent	748.65 Percent
Std Dev Btwn Labs	170.98 Percent	179.28 Percent
Statistics based on 15 of 15 reporting participants		

Sample B17: LDPE & Sample B18: LDPE

Key to Instrument Codes Reported by Participants

- IM Instru-Met Instruments
- MT MTS/Sintech
- TH Thwing Albert
- XX Instrument manufacturer not specified by lab
- IN Instron
- SH Shimadzu
- WZ Zwick



Plastics Interlaboratory Testing Program

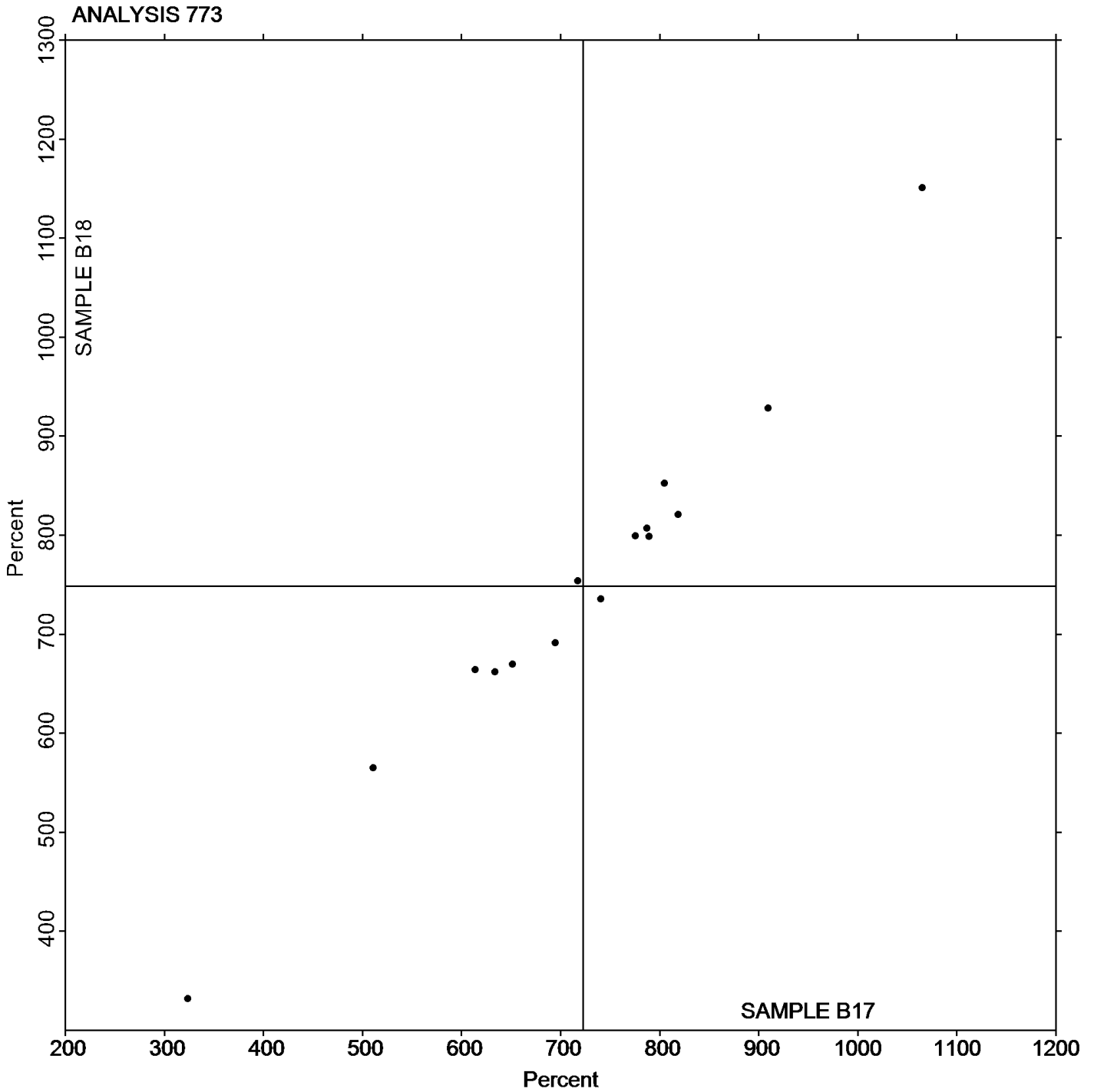
Report #138

Analysis 773

2nd Qtr 2026

Percent Elongation at Break, Film Samples

Grand Mean Sample B17: 722.52 Percent Grand Mean Sample B18: 748.65 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

Report #138

Analysis 774

2nd Qtr 2026

Thickness of Film Tensile Samples - mils

WebCode	Data Flag	<u>Sample B17</u>			<u>Sample B18</u>		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
339QX4		2.7430	0.0236	0.13	2.7960	-0.1440	-0.83
3RTC3B		2.8010	0.0816	0.46	2.9780	0.0380	0.22
3WKJKJ		2.8710	0.1516	0.86	2.8110	-0.1290	-0.75
7JBAM6		3.1500	0.4306	2.43	2.9500	0.0100	0.06
8EP63Z		2.6378	-0.0816	-0.46	2.9134	-0.0266	-0.15
9GC4WP		2.8308	0.1113	0.63	3.2205	0.2806	1.62
AGRP47		2.4080	-0.3114	-1.76	2.9600	0.0200	0.12
EXYCH2		2.6600	-0.0594	-0.34	2.6600	-0.2800	-1.62
MAZ94V		2.6100	-0.1094	-0.62	2.9500	0.0100	0.06
NHTZRF		2.5100	-0.2094	-1.18	3.1800	0.2400	1.39
PBRB2F		2.6496	-0.0698	-0.39	2.7520	-0.1880	-1.09
QHKH42		2.6580	-0.0614	-0.35	2.7620	-0.1780	-1.03
RMWDCN		2.5930	-0.1264	-0.71	2.8990	-0.0410	-0.24
RZGMNF		2.9900	0.2706	1.53	3.3160	0.3760	2.18
TPHEVG		2.5290	-0.1904	-1.07	3.0070	0.0670	0.39
UADAQV		2.7520	0.0326	0.18	3.0787	0.1388	0.80
XR9AL7		2.7993	0.0798	0.45	2.8426	-0.0974	-0.56
ZVEGLF		2.7571	0.0377	0.21	2.8430	-0.0970	-0.56

Summary Statistics		
	<u>Sample B17</u>	<u>Sample B18</u>
Grand Means	2.71942 mils	2.93995 mils
Stnd Dev Btwn Labs	0.17722 mils	0.17279 mils
Statistics based on 18 of 18 reporting participants		

Sample B17: LDPE & Sample B18: LDPE



Plastics Interlaboratory Testing Program

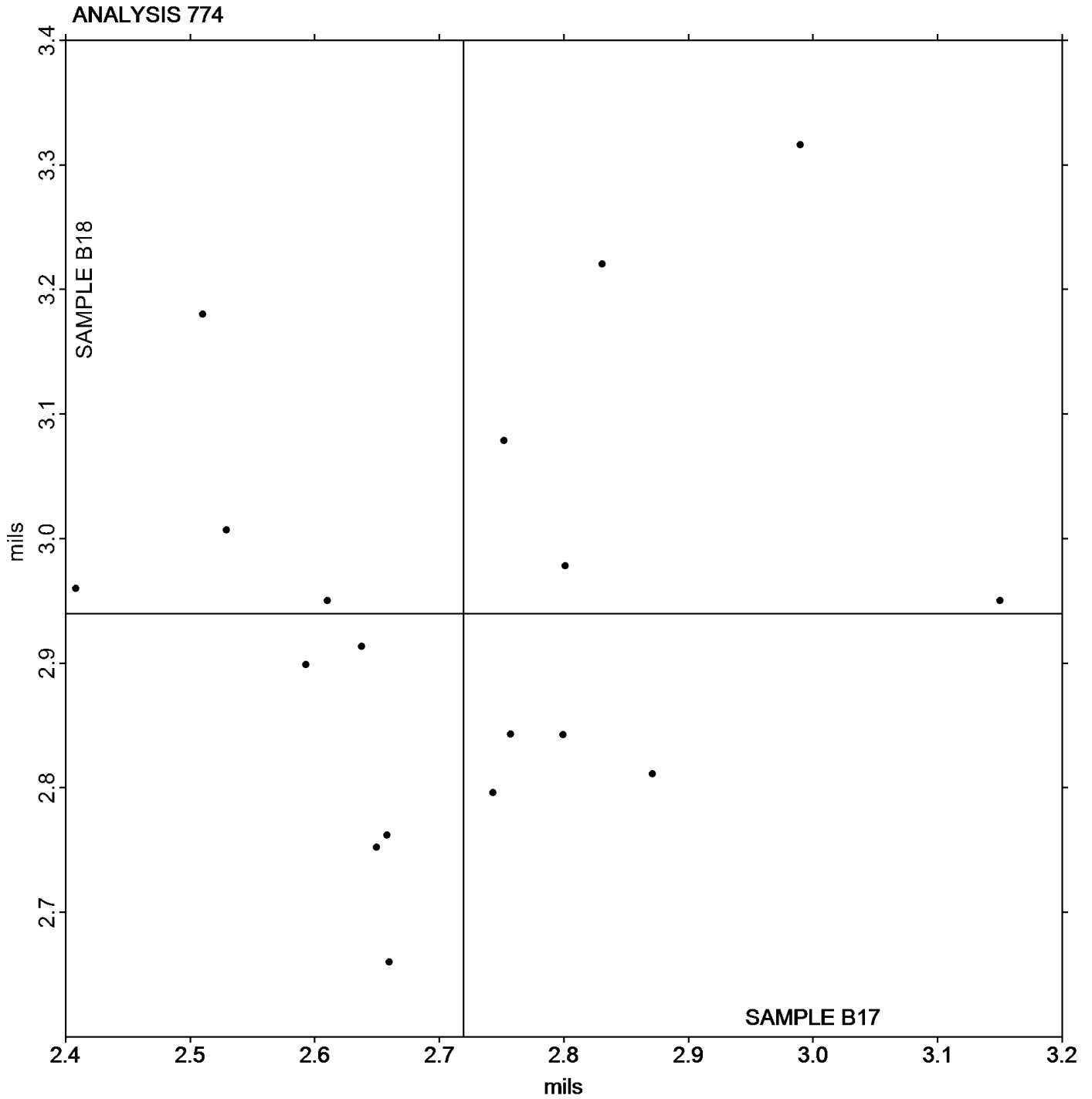
Report #138

Analysis 774

2nd Qtr 2026

Thickness of Film Tensile Samples - mils

Grand Mean Sample B17: 2.7194 mils Grand Mean Sample B18: 2.9400 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

Report #138

Analysis 775

2nd Qtr 2026

Secant Modulus at 1% Strain - psi

WebCode	Data Flag	Sample B17			Sample B18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
339QX4		40,008	-592	-0.15	38,685	-1,319	-0.40	IN
3RTC3B		36,744	-3,856	-0.99	36,500	-3,504	-1.06	IN
3WKJKJ		38,290	-2,310	-0.59	38,586	-1,418	-0.43	TH
8EP63Z		40,950	350	0.09	40,800	796	0.24	IN
9GC4WP		49,907	9,306	2.39	46,809	6,805	2.06	IN
EXYCH2	X	18,575	-22,025	-5.66	18,862	-21,142	-6.40	IN
NHTZRF		40,358	-242	-0.06	41,117	1,112	0.34	IM
QHKH42		39,395	-1,205	-0.31	38,621	-1,383	-0.42	IN
TPHEVG		37,498	-3,102	-0.80	36,259	-3,745	-1.13	XX
UADAQV	X	22,665	-17,935	-4.61	20,533	-19,471	-5.90	SH
ZVEGLF		42,252	1,652	0.42	42,661	2,657	0.80	SH

Summary Statistics		
	Sample B17	Sample B18
Grand Means	40,600.1 psi	40,004.3 psi
Std Dev Btwn Labs	3,891.5 psi	3,301.6 psi
Statistics based on 9 of 11 reporting participants		

Sample B17: LDPE & Sample B18: LDPE

Comments on Assigned Data Flags for Test #775

EXYCH2 (X) - Data for both samples are low.

UADAQV (X) - Data for both samples are low. Inconsistent within the determinations of sample B18.

Key to Instrument Codes Reported by Participants

IM	Instru-Met Instruments	IN	Instron
SH	Shimadzu	TH	Thwing Albert
XX	Instrument manufacturer not specified by lab		



Plastics Interlaboratory Testing Program

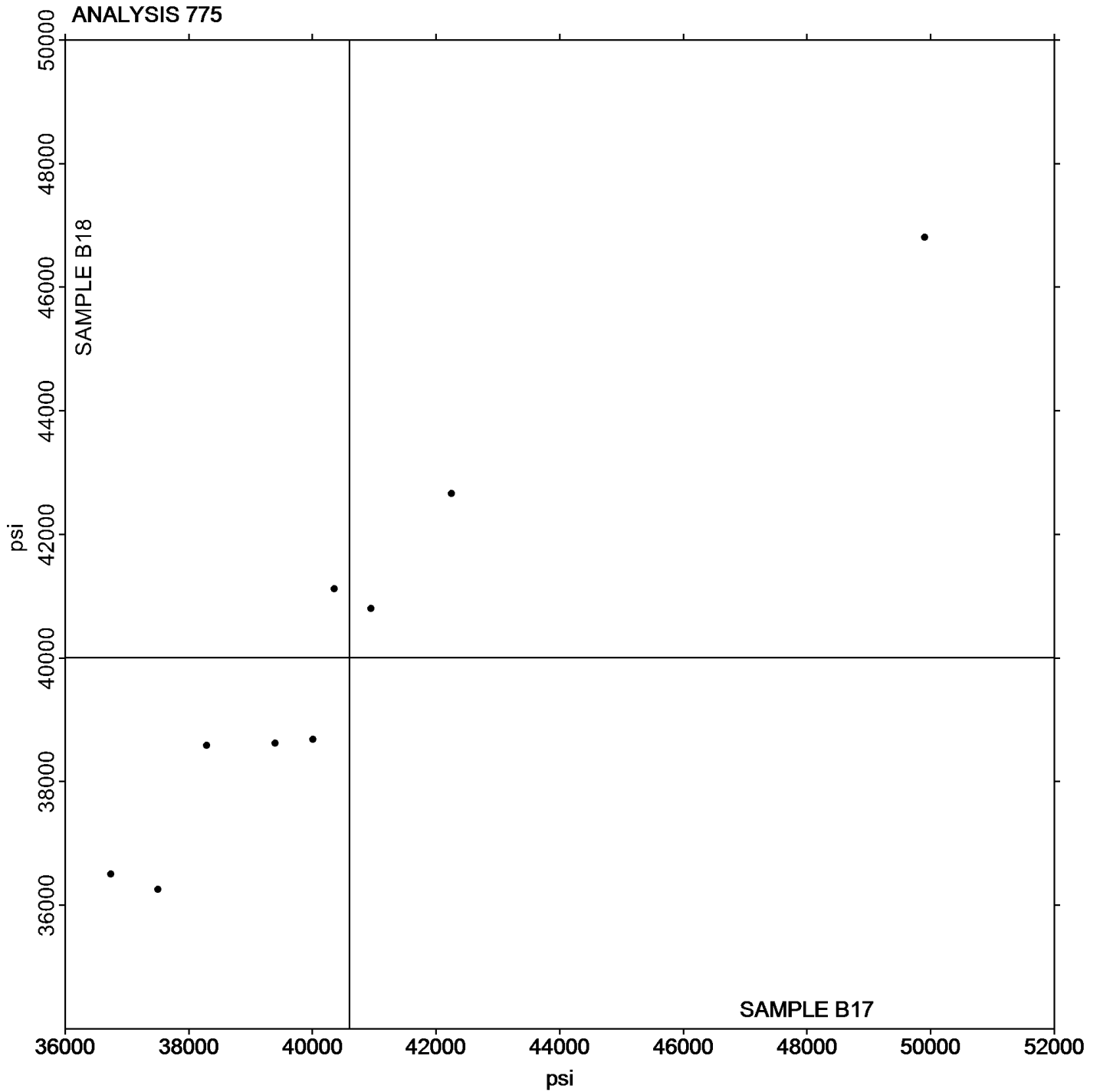
Report #138

Analysis 775

2nd Qtr 2026

Secant Modulus at 1% Strain - psi

Grand Mean Sample B17: 40,600.13 psi Grand Mean Sample B18: 40,004.27 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

Report #138

Analysis 776

2nd Qtr 2026

Secant Modulus at 2% Strain - psi

WebCode	Data Flag	Sample B17			Sample B18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
339QX4		33,796	546	0.17	32,806	640	0.21	IN
3RTC3B		30,840	-2,411	-0.76	30,385	-1,781	-0.58	IN
8EP63Z		34,350	1,100	0.35	34,120	1,954	0.64	IN
9GC4WP		40,368	7,118	2.25	37,922	5,756	1.88	IN
EXYCH2	X	16,481	-16,769	-5.31	16,620	-15,546	-5.07	IN
NHTZRF		32,604	-646	-0.20	31,959	-207	-0.07	IM
QHKH42		33,305	55	0.02	33,018	852	0.28	IN
TPHEVG		33,687	436	0.14	31,856	-310	-0.10	XX
UADAQV		29,139	-4,111	-1.30	26,490	-5,676	-1.85	SH
ZVEGLF		31,164	-2,086	-0.66	30,941	-1,225	-0.40	SH

Summary Statistics

	Sample B17	Sample B18
Grand Means	33,250.3 psi	32,166.2 psi
Std Dev Btwn Labs	3,159.3 psi	3,064.2 psi
Statistics based on 9 of 10 reporting participants		

Sample B17: LDPE & Sample B18: LDPE

Comments on Assigned Data Flags for Test #776

EXYCH2 (X) - Data for both samples are low.

Key to Instrument Codes Reported by Participants

IM	Instru-Met Instruments	IN	Instron
SH	Shimadzu	XX	Instrument manufacturer not specified by lab



Plastics Interlaboratory Testing Program

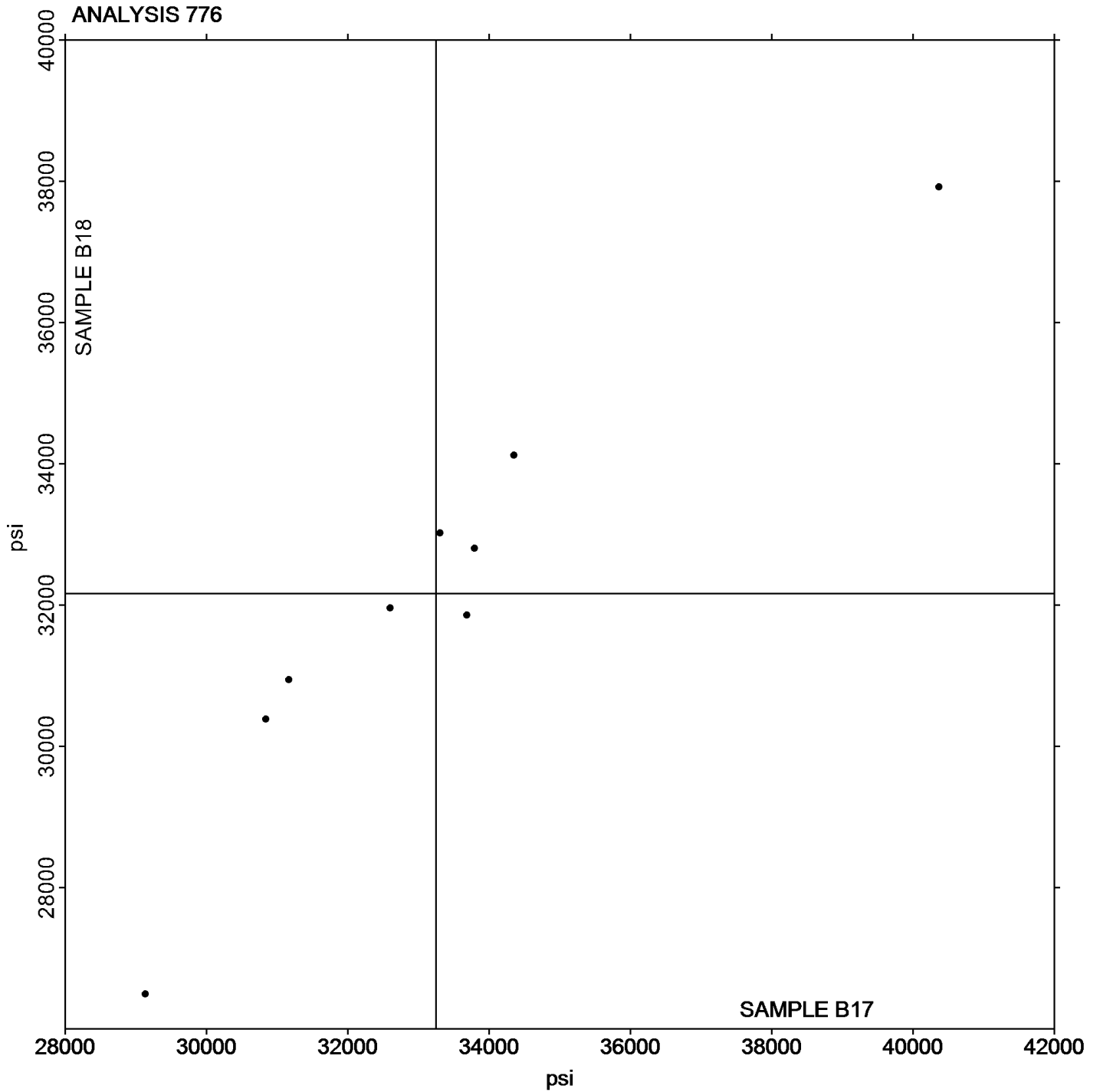
Report #138

Analysis 776

2nd Qtr 2026

Secant Modulus at 2% Strain - psi

Grand Mean Sample B17: 33,250.26 psi Grand Mean Sample B18: 32,166.19 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

Report #138

Analysis 780

2nd Qtr 2026

Coefficient of Static Friction

WebCode	Data Flag	Sample P17			Sample P18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
339QX4		0.1636	0.0080	0.17	0.1758	-0.0108	-0.23	TM
3FVZK9		0.1306	-0.0250	-0.53	0.1658	-0.0208	-0.44	IS
3WKJKJ		0.1838	0.0282	0.60	0.2260	0.0394	0.83	TH
7JBAM6		0.0954	-0.0602	-1.27	0.1208	-0.0658	-1.39	TO
8EP63Z		0.1590	0.0034	0.07	0.2122	0.0256	0.54	TH
99YLA6		0.0804	-0.0752	-1.59	0.0978	-0.0888	-1.88	XX
9CH9W3		0.1130	-0.0426	-0.90	0.1680	-0.0186	-0.39	XX
CBRRG7		0.1890	0.0334	0.71	0.1950	0.0084	0.18	LI
M8X87J		0.2437	0.0881	1.86	0.2471	0.0605	1.28	IG
NHTZRF		0.1332	-0.0224	-0.47	0.1592	-0.0274	-0.58	TH
PBRB2F		0.1720	0.0164	0.35	0.2320	0.0454	0.96	SA
QHKH42		0.2038	0.0482	1.02	0.2394	0.0528	1.12	MI

Summary Statistics		
	Sample P17	Sample P18
Grand Means	0.15563 COF	0.18660 COF
Stnd Dev Btwn Labs	0.04726 COF	0.04734 COF
Statistics based on 12 of 12 reporting participants		

Sample P17: LDPE & Sample P18: LDPE

Key to Instrument Codes Reported by Participants

- | | |
|--|--|
| IG Instron | IS Instron 5000 Series |
| LI Lloyd Instruments | MI MTS Insight |
| SA Shimadzu Autograph | TH Thwing Albert Friction/Peel Tester Model 225-1 |
| TM TMI Slip and Friction Tester | TO Tinius Olsen |
| XX Instrument make/model not specified by lab | |



Plastics Interlaboratory Testing Program

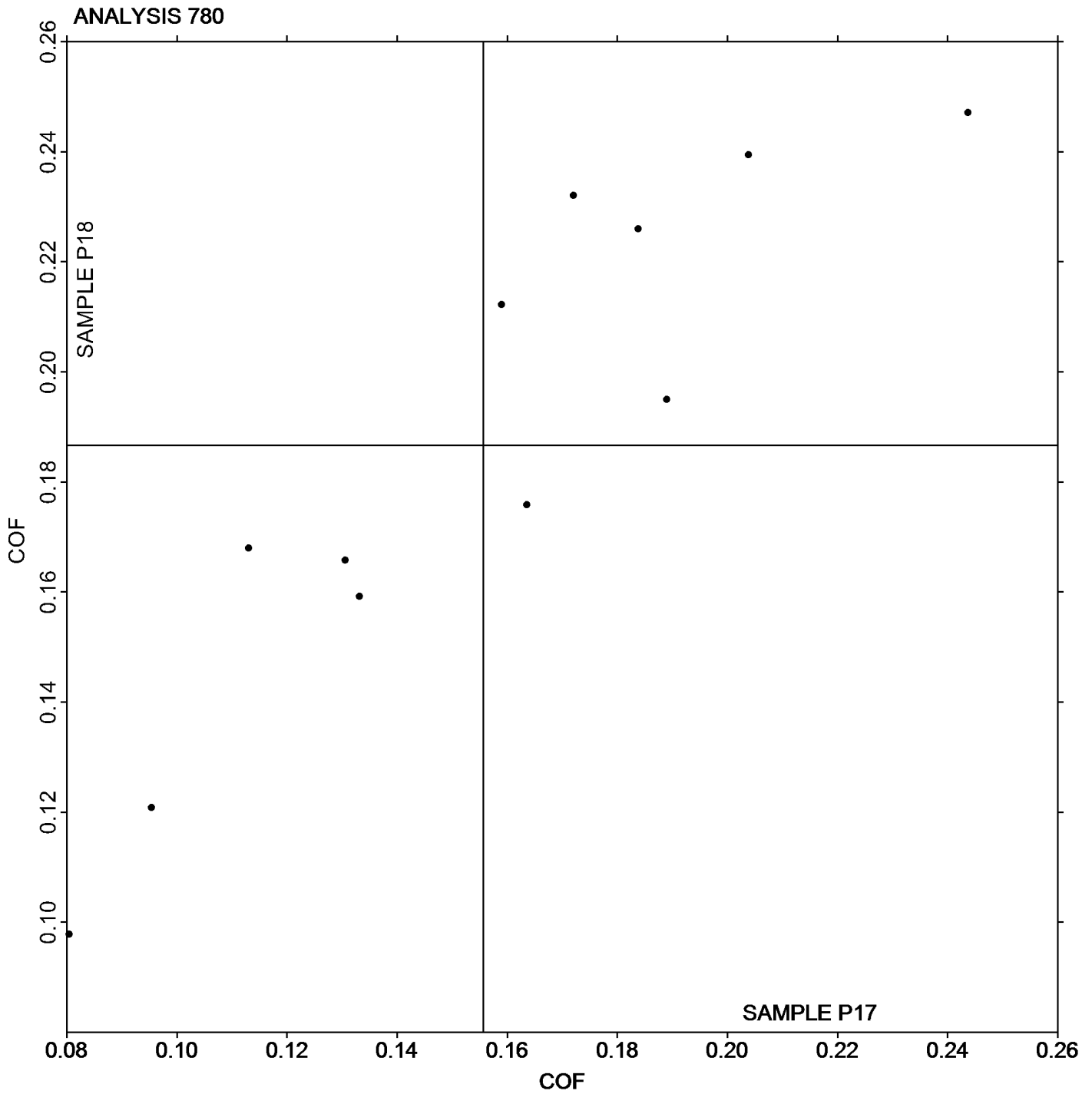
Analysis 780

Coefficient of Static Friction

Report #138

2nd Qtr 2026

Grand Mean Sample P17: 0.15563 COF Grand Mean Sample P18: 0.18660 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

Report #138

Analysis 781

2nd Qtr 2026

Coefficient of Kinetic Friction

WebCode	Data Flag	Sample P17			Sample P18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
339QX4		0.0856	-0.0117	-0.44	0.1344	0.0063	0.17	TM
3FVZK9		0.1076	0.0103	0.39	0.1278	-0.0003	-0.01	IS
3WKJKJ		0.1258	0.0285	1.07	0.1632	0.0351	0.92	TH
7JBAM6		0.0716	-0.0257	-0.97	0.0840	-0.0441	-1.16	TO
8EP63Z		0.1132	0.0159	0.60	0.1392	0.0111	0.29	TH
99YLA6		0.0388	-0.0586	-2.21	0.0273	-0.1009	-2.65	XX
9CH9W3		0.0888	-0.0085	-0.32	0.1362	0.0081	0.21	XX
CBRRG7		0.1346	0.0373	1.40	0.1416	0.0135	0.35	XX
M8X87J		0.1248	0.0275	1.03	0.1685	0.0404	1.06	IG
NHTZRF		0.0900	-0.0073	-0.28	0.1298	0.0017	0.04	TH
PBRB2F		0.0880	-0.0093	-0.35	0.1360	0.0079	0.21	SA
QHKH42		0.0990	0.0017	0.06	0.1494	0.0213	0.56	MI

Summary Statistics		Sample P17	Sample P18
Grand Means		0.09731 COF	0.12811 COF
Std Dev Btwn Labs		0.02656 COF	0.03803 COF
Statistics based on 12 of 12 reporting participants			

Sample P17: LDPE & Sample P18: LDPE

Key to Instrument Codes Reported by Participants

IG Instron	IS Instron 5000 Series
MI MTS Insight	SA Shimadzu Autograph
TH Thwing Albert Friction/Peel Tester Model 225-1	TM TMI Slip and Friction Tester
TO Tinius Olsen	XX Instrument make/model not specified by lab



Plastics Interlaboratory Testing Program

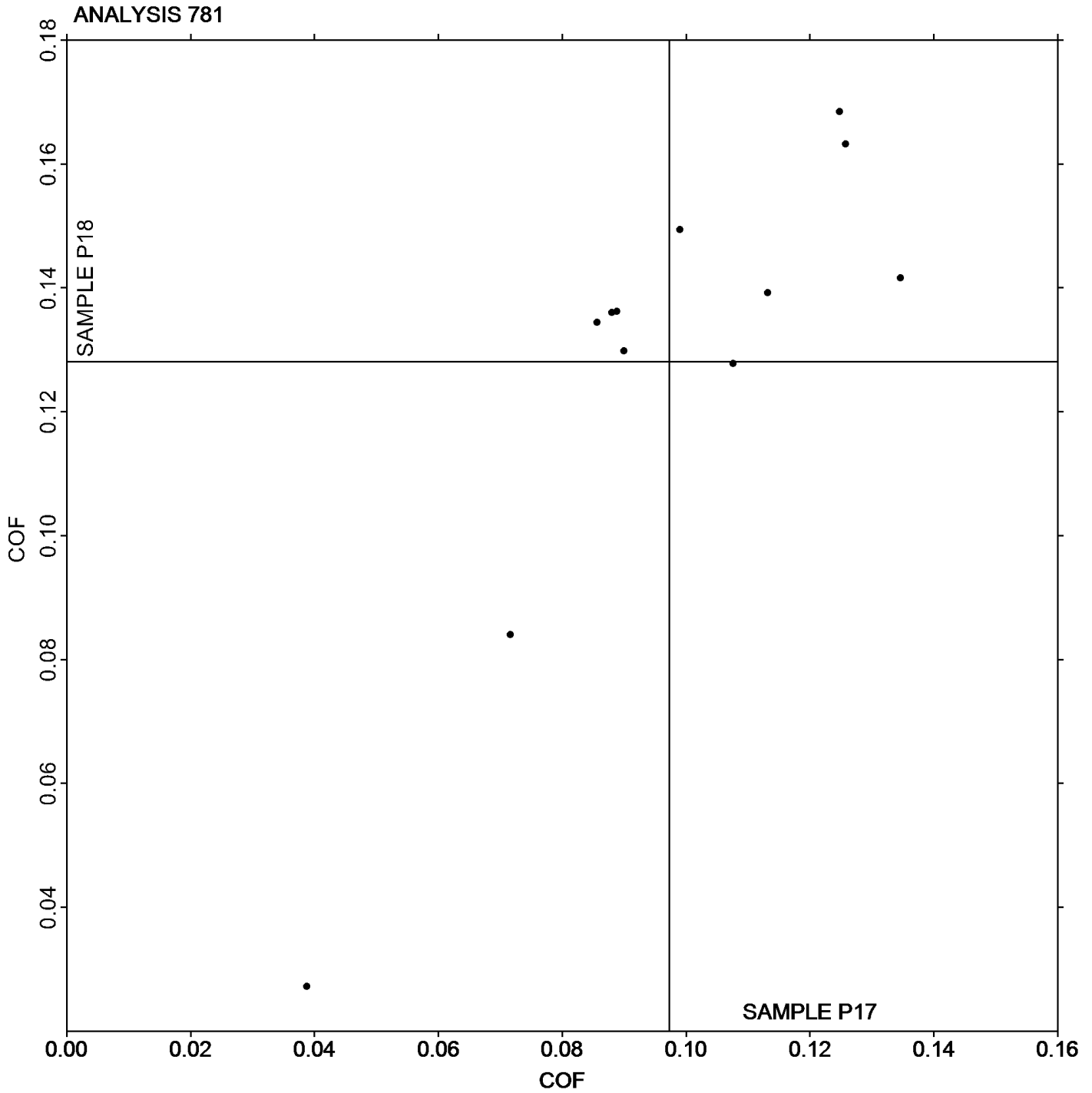
Analysis 781

Coefficient of Kinetic Friction

Report #138

2nd Qtr 2026

Grand Mean Sample P17: 0.09731 COF Grand Mean Sample P18: 0.12811 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

Report #138

Analysis 782

2nd Qtr 2026

Tear Resistance of Films

WebCode	Data Flag	Sample Q17			Sample Q18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
339QX4		611.6	-32.2	-0.31	664.5	-29.5	-0.30	TM
3WKJKJ		824.7	180.8	1.74	728.2	34.2	0.35	TA
8EP63Z		593.0	-50.9	-0.49	596.4	-97.5	-1.00	TE
NHTZRF		536.0	-107.9	-1.04	802.1	108.1	1.11	EM
QDCEVE		633.2	-10.6	-0.10	827.8	133.9	1.37	TE
QHKH42		647.4	3.5	0.03	625.0	-69.0	-0.71	TE
TPHEVG		769.9	126.1	1.21	747.8	53.8	0.55	TE
WNCXXF	X	2,312.2	1,668.3	16.03	2,425.0	1,731.1	17.72	TE
XR9AL7		535.0	-108.8	-1.05	559.9	-134.1	-1.37	SZ

Summary Statistics		
	Sample Q17	Sample Q18
Grand Means	643.84 grams-force	693.96 grams-force
Stnd Dev Btwn Labs	104.08 grams-force	97.69 grams-force
Statistics based on 8 of 9 reporting participants		

Sample Q17: LDPE & Sample Q18: LDPE

Comments on Assigned Data Flags for Test #782

WNCXXF (X) - Extreme data.

Key to Instrument Codes Reported by Participants

EM	Elmendorf Tear Tester	SZ	Textest FX 3700
TA	Thwing-Albert	TE	Thwing-Albert Pro Tear
TM	TMI No. 83-1100		



Plastics Interlaboratory Testing Program

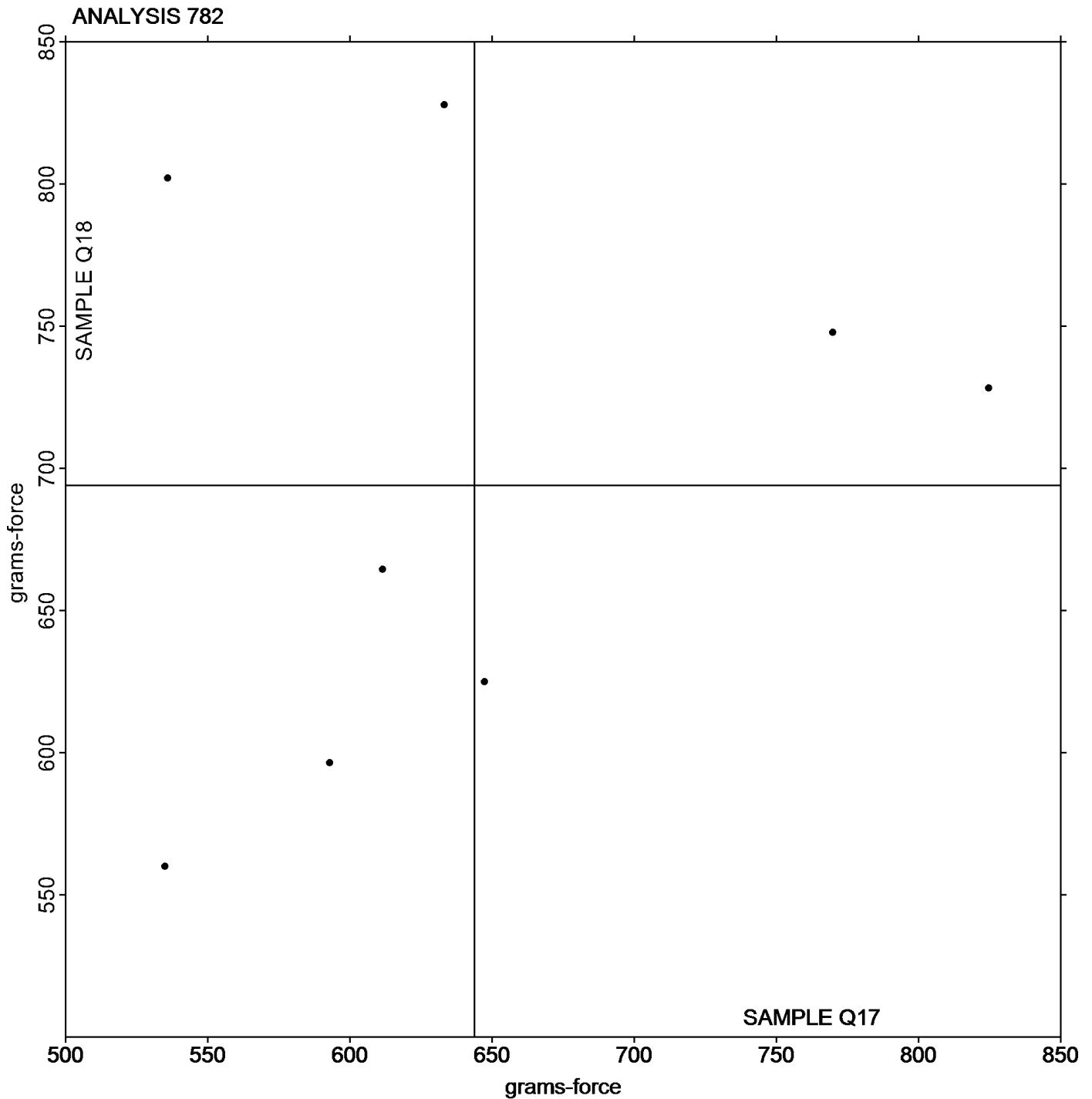
Report #138

Analysis 782

2nd Qtr 2026

Tear Resistance of Films

Grand Mean Sample Q17: 643.84 grams-force Grand Mean Sample Q18: 693.96 grams-force



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



Plastics Interlaboratory Testing Program

Report #138

Analysis 785

2nd Qtr 2026

Percent Haze of Film

WebCode	Data Flag	Sample D17			Sample D18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2C4AZ8		20.813	0.101	0.08	21.038	0.052	0.04	BJ
2MLUJ4		21.450	0.739	0.60	21.525	0.539	0.37	BJ
339QX4		20.913	0.201	0.16	21.025	0.039	0.03	BJ
3NCCZV		20.638	-0.074	-0.06	20.988	0.002	0.00	BJ
3WKJKJ		22.268	1.556	1.26	22.491	1.505	1.04	XR
64VGAF		20.888	0.176	0.14	20.980	-0.006	0.00	BJ
8EP63Z		20.763	0.051	0.04	21.075	0.089	0.06	BJ
ANNT6G		21.750	1.039	0.84	21.738	0.752	0.52	BJ
BLUMYB		18.366	-2.345	-1.89	18.444	-2.542	-1.76	XR
D4RL3V		19.450	-1.261	-1.02	20.875	-0.111	-0.08	BJ
EYCG4Z		20.375	-0.336	-0.27	19.750	-1.236	-0.86	BJ
HQ69PU		21.050	0.339	0.27	21.650	0.664	0.46	BJ
JEBKKZ		20.460	-0.251	-0.20	21.074	0.088	0.06	XR
KMYRKG		20.911	0.200	0.16	21.165	0.179	0.12	XX
KUG29D		21.463	0.751	0.61	21.250	0.264	0.18	BJ
NHTZRF		20.303	-0.409	-0.33	20.760	-0.226	-0.16	BJ
QDCEVE	*	16.686	-4.025	-3.25	16.205	-4.781	-3.31	KM
QFCPPT		20.775	0.064	0.05	20.913	-0.073	-0.05	BJ
QHKH42	*	21.013	0.301	0.24	23.150	2.164	1.50	BJ
RMWDCN		20.875	0.164	0.13	21.313	0.327	0.23	BJ
TRLAEK		22.910	2.199	1.77	23.304	2.318	1.61	XR
XR9AL7		21.200	0.489	0.39	21.688	0.702	0.49	BJ
ZXPMD4		21.038	0.326	0.26	20.275	-0.711	-0.49	BJ

Summary Statistics		
	Sample D17	Sample D18
Grand Means	20.7110 Percent	20.9858 Percent
Stnd Dev Btwn Labs	1.2393 Percent	1.4422 Percent
Statistics based on 23 of 23 reporting participants		

Sample D17: LDPE & Sample D18: LDPE

Key to Instrument Codes Reported by Participants

- BJ BYK-Gardner Haze-Gard Plus/i
- XR X-Rite Spectrocolorimeter (any model)
- KM Konica Minolta
- XX Instrument make/model not specified by lab



Plastics Interlaboratory Testing Program

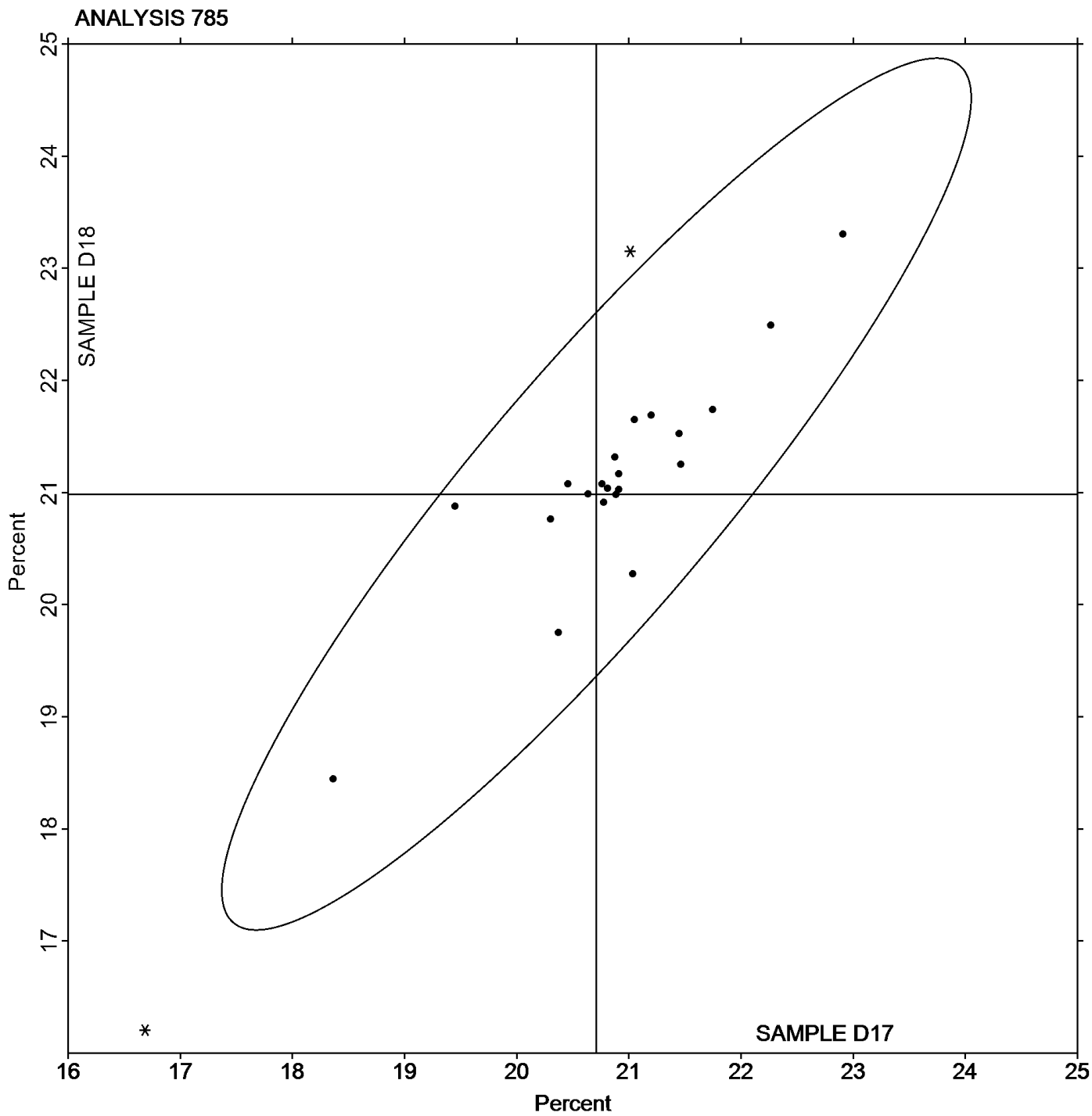
Analysis 785

Percent Haze of Film

Report #138

2nd Qtr 2026

Grand Mean Sample D17: 20.711 Percent Grand Mean Sample D18: 20.986 Percent





Plastics Interlaboratory Testing Program

Report #138

Analysis 786

2nd Qtr 2026

Total Luminous Transmittance of Film

WebCode	Data Flag	Sample D17			Sample D18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2C4AZ8		94.11	1.27	1.20	94.39	1.37	1.24	BJ
2MLUJ4		90.16	-2.68	-2.53	90.28	-2.75	-2.49	BJ
339QX4		93.66	0.82	0.77	93.84	0.82	0.74	BJ
3NCCZV	X	92.68	-0.17	-0.16	93.59	0.57	0.51	BJ
64VGAF		93.03	0.19	0.18	93.29	0.27	0.24	BJ
8EP63Z		92.81	-0.03	-0.03	93.05	0.03	0.03	BJ
ANNT6G		93.68	0.83	0.78	93.75	0.73	0.66	BJ
BLUMYB		91.03	-1.81	-1.71	91.18	-1.85	-1.67	XR
D4RL3V		93.66	0.82	0.77	93.89	0.87	0.78	BJ
EYCG4Z		94.23	1.38	1.30	94.46	1.44	1.31	BJ
HQ69PU		93.31	0.47	0.44	93.58	0.55	0.50	BJ
JEBKKZ		91.18	-1.66	-1.57	91.20	-1.82	-1.65	XR
KMYRKG		92.85	0.01	0.01	92.94	-0.08	-0.08	XX
KUG29D		93.39	0.55	0.51	93.54	0.52	0.47	BJ
NHTZRF		93.16	0.32	0.30	93.59	0.57	0.51	BJ
QFCPPT		92.81	-0.03	-0.03	92.99	-0.03	-0.03	BJ
QHKH42		92.98	0.13	0.13	93.03	0.00	0.00	BJ
RMWDCN		93.54	0.70	0.66	93.66	0.64	0.58	BJ
TRLAEK		91.95	-0.89	-0.84	92.14	-0.89	-0.80	XR
XR9AL7		92.11	-0.73	-0.69	92.24	-0.78	-0.71	BJ
ZXPMD4		93.19	0.35	0.33	93.44	0.42	0.38	BJ

Summary Statistics		
	Sample D17	Sample D18
Grand Means	92.842 Percent	93.022 Percent
Std Dev Btwn Labs	1.061 Percent	1.103 Percent
Statistics based on 20 of 21 reporting participants		

Sample D17: LDPE & Sample D18: LDPE

Comments on Assigned Data Flags for Test #786

3NCCZV (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.

Key to Instrument Codes Reported by Participants

- BJ BYK-Gardner Haze-Gard Plus/i
- XR X-Rite Spectrocolorimeter (any model)
- XX Instrument make/model not specified by lab



Plastics Interlaboratory Testing Program

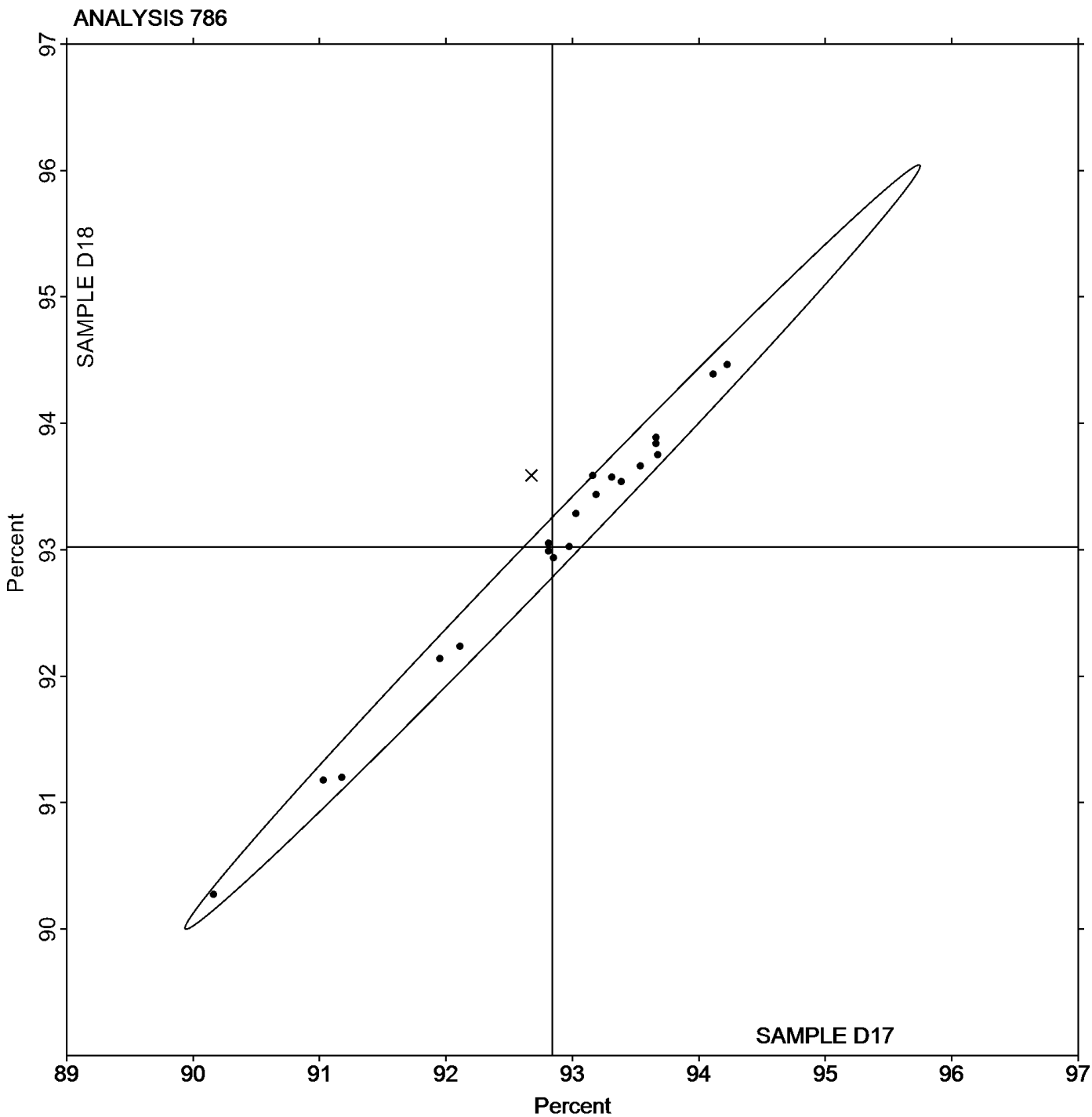
Analysis 786

Total Luminous Transmittance of Film

Report #138

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Grand Mean Sample D17: 92.842 Percent Grand Mean Sample D18: 93.022 Percent





Plastics Interlaboratory Testing Program

Report #138

Analysis 790

2nd Qtr 2026

Notched Izod Impact - ft.lbf/in

WebCode	Data Flag	Sample S17			Sample S18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
292CQY		1.85	-0.10	-0.50	1.84	-0.11	-0.49	TO
2MLQUY		1.88	-0.07	-0.34	1.86	-0.08	-0.36	CE
2MLUJ4		1.80	-0.15	-0.71	1.83	-0.11	-0.50	WZ
2RY79C		1.89	-0.06	-0.30	1.88	-0.06	-0.27	TO
4EJVUK		1.90	-0.05	-0.25	1.88	-0.06	-0.27	TO
64VGAF		2.25	0.30	1.40	2.20	0.25	1.15	TY
6KNJZC		1.97	0.02	0.08	1.98	0.03	0.15	TM
7JBAM6		2.10	0.14	0.69	2.02	0.08	0.34	WZ
8EP63Z		1.90	-0.05	-0.22	1.96	0.02	0.09	CE
8X4WFX		2.36	0.41	1.97	2.40	0.46	2.08	XX
9LRDAT		1.93	-0.02	-0.10	1.90	-0.04	-0.20	CS
ABLQV2		1.74	-0.21	-0.98	1.74	-0.21	-0.93	TO
AG7BFT		1.85	-0.11	-0.50	1.85	-0.10	-0.44	IN
BPFZTR		2.03	0.08	0.38	2.02	0.07	0.33	BA
CLVWB8		1.94	-0.01	-0.05	1.86	-0.08	-0.37	DS
D4BZJX		1.88	-0.07	-0.32	1.93	-0.01	-0.05	TO
J92XJ3		2.18	0.23	1.11	2.24	0.30	1.34	TM
KMYVAL		1.69	-0.26	-1.25	1.69	-0.25	-1.14	TM
L2DUP7		2.01	0.06	0.29	2.07	0.13	0.59	IN
LBH37Q		1.85	-0.10	-0.46	1.81	-0.13	-0.58	TO
LDNTNK		1.84	-0.11	-0.54	1.84	-0.10	-0.45	TO
M8X87J		1.85	-0.10	-0.46	1.86	-0.08	-0.38	CE
P3GLAH		1.55	-0.41	-1.93	1.51	-0.44	-1.98	TO
PNXQKQ	X	3.88	1.92	9.16	3.92	1.98	8.95	TO
Q787GB		1.95	0.00	0.02	1.96	0.02	0.09	WZ
QDCEVE	X	53.32	51.37	244.48	52.78	50.84	229.96	XX
QFCPPT		1.93	-0.02	-0.09	1.96	0.02	0.07	CE
QHKH42		1.76	-0.19	-0.89	1.73	-0.22	-0.98	TO
TG7VJR		2.29	0.34	1.60	2.27	0.33	1.49	BA
TJME4L		2.33	0.38	1.82	2.34	0.40	1.80	TO
UKXACC		1.80	-0.15	-0.72	1.75	-0.20	-0.89	TO
WNAWZ2	*	1.96	0.01	0.05	1.85	-0.10	-0.44	XX
X2RF3P		1.64	-0.31	-1.46	1.64	-0.31	-1.38	RR
X43NJG		1.99	0.04	0.19	2.01	0.07	0.31	XX
XMWYDQ		1.90	-0.05	-0.23	1.84	-0.10	-0.47	TM



Plastics Interlaboratory Testing Program

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Analysis 790

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Notched Izod Impact - ft.lbf/in

WebCode	Data Flag	Sample S17			Sample S18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
XR98W2	*	2.52	0.57	2.72	2.54	0.60	2.72	TO
ZWYVGK	X	2.17	0.22	1.03	2.00	0.05	0.24	TY

Summary Statistics		Sample S17	Sample S18
Grand Means		1.951 ft.lbf/in	1.943 ft.lbf/in
Std Dev Btwn Labs		0.210 ft.lbf/in	0.221 ft.lbf/in
Statistics based on 34 of 37 reporting participants			

Sample S17: HIPS & Sample S18: HIPS

Comments on Assigned Data Flags for Test #790

- PNXQKQ (X) - Data for both samples are high. Possible Systematic Error.
- ZWYVGK (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.
- QDCEVE (X) - Extreme data.

Key to Instrument Codes Reported by Participants

BA Baldwin	CE Ceast
CS CSI	DS Dynisco
IN Instron	RR Ray-Ran Polymer Testing Equipment
TM TMI	TO Tinius Olsen
TY Toyoseiki	WZ Zwick
XX Instrument manufacturer not specified by lab	



Plastics Interlaboratory Testing Program

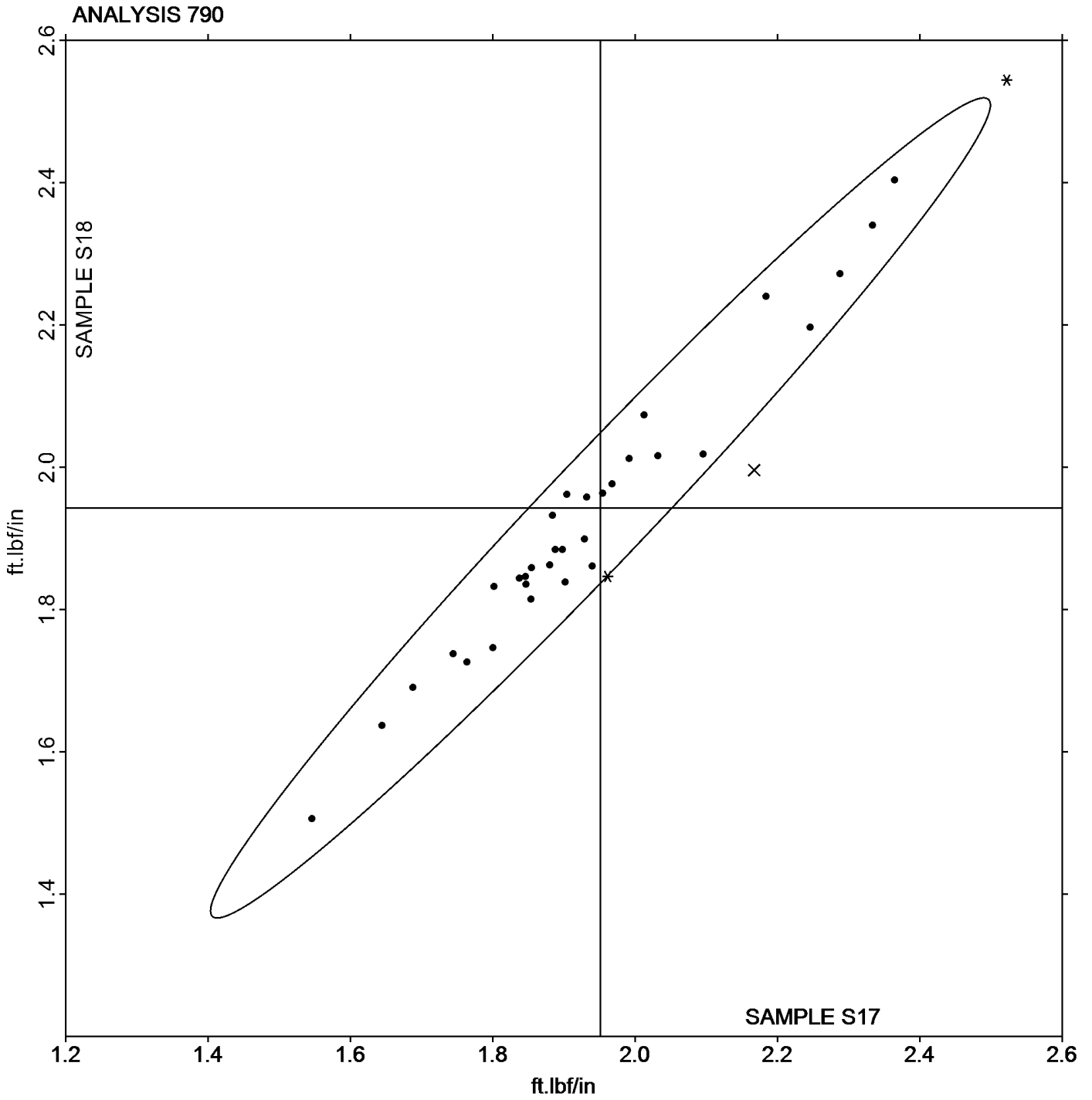
Analysis 790

Notched Izod Impact - ft.lbf/in

Report #138

2nd Qtr 2026

Grand Mean Sample S17: 1.9512 ft.lbf/in Grand Mean Sample S18: 1.9428 ft.lbf/in





Plastics Interlaboratory Testing Program

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Analysis 791

2nd Qtr 2026

Notched Izod Impact - kJ/m²

WebCode	Data Flag	Sample Z17			Sample Z18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2B9QX7		20.51	0.27	0.33	20.15	-0.15	-0.18	TO
2J2YHW	X	20.34	0.09	0.11	21.82	1.53	1.88	CE
2XJUW8		18.36	-1.89	-2.28	18.64	-1.66	-2.05	CE
38PWY	X	21.74	1.50	1.81	19.00	-1.30	-1.60	WZ
4EJVUK		20.48	0.24	0.29	20.59	0.29	0.36	TO
4PKHLH		20.30	0.06	0.07	20.30	0.00	0.00	TO
64VGAF		21.49	1.25	1.51	21.57	1.27	1.57	XX
6KNJZC		20.52	0.27	0.33	20.80	0.50	0.62	XX
6PFLQC		20.09	-0.15	-0.18	20.13	-0.16	-0.20	IN
8EP63Z		21.28	1.04	1.26	21.30	1.00	1.24	CE
8X3Y63		20.13	-0.11	-0.14	19.93	-0.37	-0.45	IN
9CGBL8		21.14	0.89	1.08	20.90	0.60	0.75	CE
CYDRKC		20.42	0.18	0.21	20.30	0.00	0.00	XX
E9XHLV		21.37	1.13	1.37	21.58	1.28	1.58	CE
HMLJJG		19.33	-0.91	-1.10	19.55	-0.74	-0.92	XX
JPAPNT		19.87	-0.37	-0.45	19.65	-0.65	-0.80	WZ
KUG29D		19.47	-0.77	-0.94	19.98	-0.32	-0.39	WZ
M6RCDL		21.48	1.23	1.49	21.26	0.96	1.19	CE
MG3EKJ		19.70	-0.54	-0.65	19.67	-0.62	-0.77	WZ
N9LT3K		20.80	0.56	0.68	21.23	0.94	1.15	WZ
NY3RUK		20.51	0.27	0.33	20.30	0.01	0.01	TO
Q787GB		20.94	0.69	0.84	20.92	0.62	0.77	WZ
QHKH42		19.76	-0.48	-0.58	20.22	-0.08	-0.09	TO
RQEV8E		20.40	0.16	0.19	20.13	-0.16	-0.20	CE
VZ98V4		20.62	0.38	0.46	20.90	0.60	0.74	TO
WKT4W9		18.45	-1.80	-2.17	18.42	-1.87	-2.31	TY
WNAWZ2		18.47	-1.78	-2.15	18.50	-1.80	-2.22	XX
WVR3X9		20.18	-0.06	-0.08	20.18	-0.12	-0.14	TO
X43NJG		20.04	-0.20	-0.25	20.30	0.00	0.00	XX
XR6EQL		20.12	-0.12	-0.15	20.14	-0.16	-0.19	WZ
Y4EGLH		20.49	0.25	0.30	20.56	0.26	0.33	TO
ZWYVGK		20.56	0.32	0.39	20.79	0.50	0.61	TY



Plastics Interlaboratory Testing Program

Report #138

Analysis 791

2nd Qtr 2026

Notched Izod Impact - kJ/m²

Summary Statistics	Sample Z17	Sample Z18
Grand Means	20.243 kJ/m ²	20.296 kJ/m ²
Stnd Dev Btwn Labs	0.827 kJ/m ²	0.811 kJ/m ²
Statistics based on 30 of 32 reporting participants		

Sample Z17: ABS & Sample Z18: ABS

Comments on Assigned Data Flags for Test #791

38PWWY (X) - Inconsistent in testing between samples.

2J2YHW (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample Z18.

Key to Instrument Codes Reported by Participants

CE Ceast

IN Instron

TO Tinius Olsen

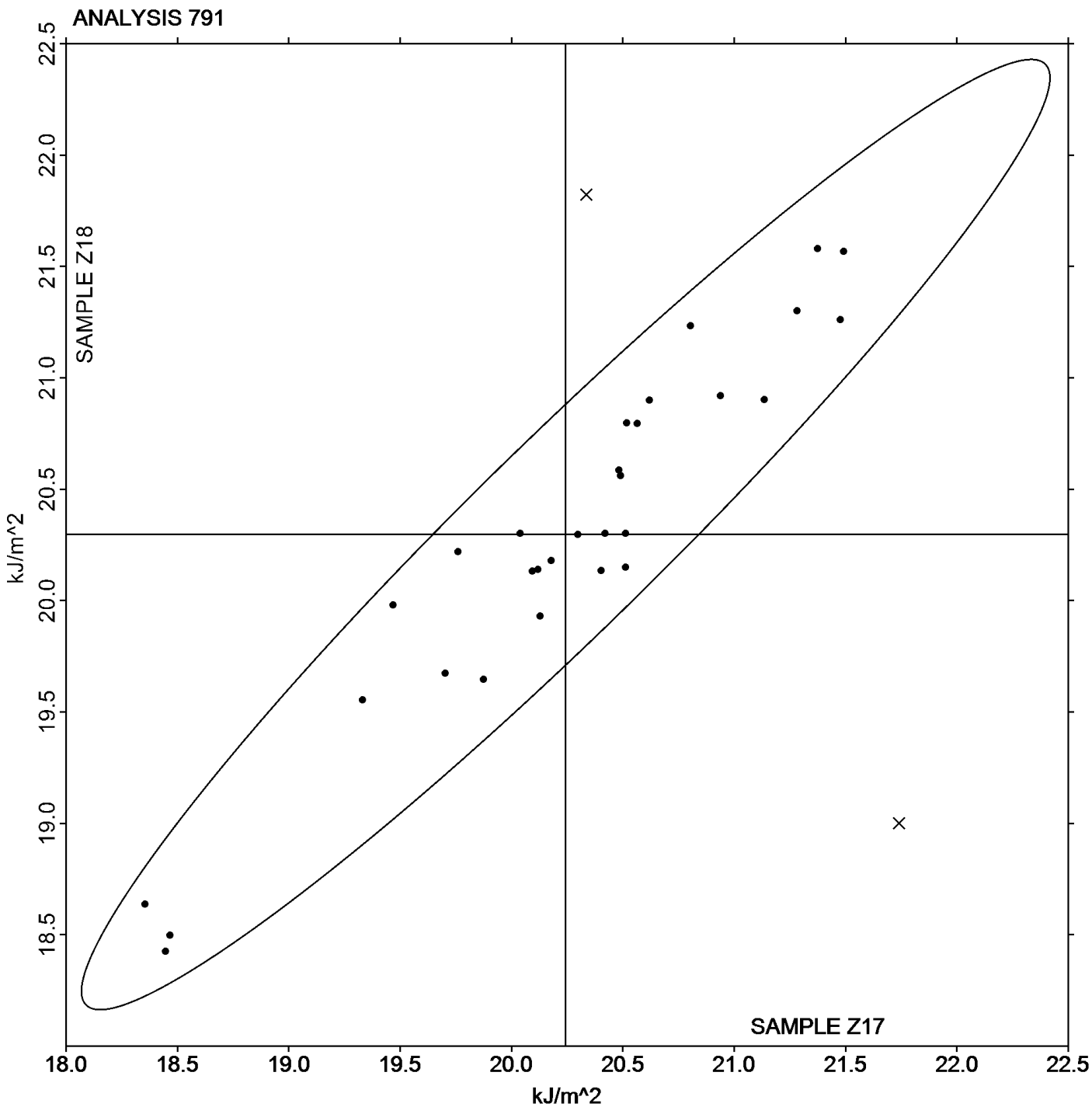
TY Toyoseiki

WZ Zwick

XX Instrument manufacturer not specified by lab



Grand Mean Sample Z17: 20.243 kJ/m^2 Grand Mean Sample Z18: 20.296 kJ/m^2





Plastics Interlaboratory Testing Program

Report #138

Analysis 792

2nd Qtr 2026

Notched Charpy Impact - kJ/m²

WebCode	Data Flag	Sample M17			Sample M18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2B9QX7		21.09	-0.42	-0.48	20.88	-0.49	-0.65	TO
2MLQUY		22.30	0.79	0.90	22.20	0.83	1.10	CE
2MLUJ4		22.01	0.50	0.57	22.01	0.64	0.85	WZ
2RY79C		22.92	1.41	1.61	22.60	1.23	1.63	TO
2XJUW8		20.81	-0.70	-0.79	21.26	-0.11	-0.14	CE
38PWWY		21.36	-0.15	-0.17	21.16	-0.21	-0.27	WZ
3Z6VEZ		22.04	0.53	0.61	21.97	0.60	0.79	XX
4PKHLH		21.35	-0.16	-0.18	21.29	-0.08	-0.10	TO
64VGAF		21.27	-0.24	-0.27	20.72	-0.65	-0.85	TY
6KNJZC	X	25.45	3.94	4.49	24.62	3.26	4.30	XX
8EP63Z		22.78	1.27	1.45	22.65	1.28	1.69	CE
8X3Y63		22.09	0.58	0.66	21.48	0.12	0.16	IN
9CGBL8		20.45	-1.06	-1.21	20.29	-1.08	-1.42	CE
ABLQV2	X	25.25	3.74	4.27	25.41	4.05	5.34	TO
B32C62		22.06	0.55	0.63	21.14	-0.23	-0.30	TO
CYDRKC		20.94	-0.57	-0.64	21.13	-0.24	-0.32	WZ
D8CG32	X	21.50	-0.01	-0.01	18.93	-2.43	-3.21	TM
E9XHLV		20.67	-0.84	-0.96	20.40	-0.97	-1.27	CE
FQQZNV		22.54	1.03	1.17	21.81	0.44	0.59	XX
GYNKGV		22.30	0.79	0.90	22.14	0.77	1.02	TO
HMLJJG		21.32	-0.19	-0.22	21.39	0.03	0.04	WZ
JL9A4P		21.73	0.22	0.25	21.86	0.49	0.65	TO
JPAPNT	X	21.95	0.44	0.50	20.32	-1.04	-1.37	WZ
KUG29D		21.42	-0.09	-0.11	21.23	-0.14	-0.18	WZ
LDNTNK		20.45	-1.06	-1.21	21.28	-0.09	-0.11	TO
M6RCDL		22.13	0.62	0.71	22.38	1.02	1.34	CE
N9LT3K		22.38	0.87	1.00	22.04	0.68	0.89	WZ
NY3RUK		20.63	-0.88	-1.00	20.55	-0.81	-1.07	TO
P3GLAH		21.66	0.15	0.17	21.06	-0.31	-0.40	TO
Q787GB		21.33	-0.18	-0.20	21.24	-0.12	-0.16	WZ
QBMBF7		22.16	0.65	0.74	21.60	0.23	0.30	CE
QHKH42		20.94	-0.57	-0.65	21.52	0.15	0.20	TO
RQEV8E		22.51	1.00	1.14	21.50	0.13	0.17	CE
RZHQQJ		21.21	-0.30	-0.34	21.00	-0.37	-0.48	WZ
TA646A		23.57	2.06	2.35	23.31	1.95	2.57	WZ



Plastics Interlaboratory Testing Program

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Analysis 792

2nd Qtr 2026

Notched Charpy Impact - kJ/m²

WebCode	Data Flag	Sample M17			Sample M18			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
TG7VJR	X	25.19	3.68	4.19	25.06	3.70	4.88	XX
TJME4L		22.08	0.57	0.65	22.04	0.67	0.88	TO
ULTPNA	X	19.38	-2.13	-2.42	21.12	-0.25	-0.33	PO
V9JAFJ		20.39	-1.12	-1.28	20.44	-0.93	-1.22	XX
VENM9U		20.70	-0.81	-0.93	20.50	-0.86	-1.14	WZ
VF38UD		21.45	-0.06	-0.07	21.78	0.42	0.55	WZ
WK93ED	X	3.02	-18.49	-21.07	3.98	-17.38	-22.93	CE
WKT4W9		20.41	-1.10	-1.25	20.64	-0.73	-0.96	TY
WNAWZ2		19.34	-2.17	-2.47	19.64	-1.73	-2.28	XX
WVR3X9		20.70	-0.81	-0.92	20.70	-0.67	-0.88	TO
X43NJG		21.04	-0.47	-0.53	21.18	-0.19	-0.24	XX
XR6EQL		22.44	0.93	1.06	21.64	0.27	0.36	WZ
XR98W2		22.26	0.75	0.86	21.82	0.45	0.60	TO
Z7JUVA		20.16	-1.35	-1.54	19.90	-1.47	-1.93	TY

Summary Statistics		
	Sample M17	Sample M18
Grand Means	21.509 kJ/m ²	21.365 kJ/m ²
Stnd Dev Btwn Labs	0.878 kJ/m ²	0.758 kJ/m ²
Statistics based on 42 of 49 reporting participants		

Sample M17: ABS & Sample M18: ABS

Comments on Assigned Data Flags for Test #792

- 6KNJZC (X) - Data for both samples are high. Possible Systematic Error.
- ABLQV2 (X) - Data for both samples are high. Possible Systematic Error.
- ULTPNA (X) - Inconsistent in testing between samples.
- TG7VJR (X) - Data for both samples are high. Possible Systematic Error.
- D8CG32 (X) - Data for sample M18 are low.
- JPAPNT (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample M17.
- WK93ED (X) - Extreme data.

Key to Instrument Codes Reported by Participants

CE	Ceast	IN	Instron
PO	POE	TM	TMI
TO	Tinius Olsen	TY	Toyoseiki
WZ	Zwick	XX	Instrument manufacturer not specified by lab



Plastics Interlaboratory Testing Program

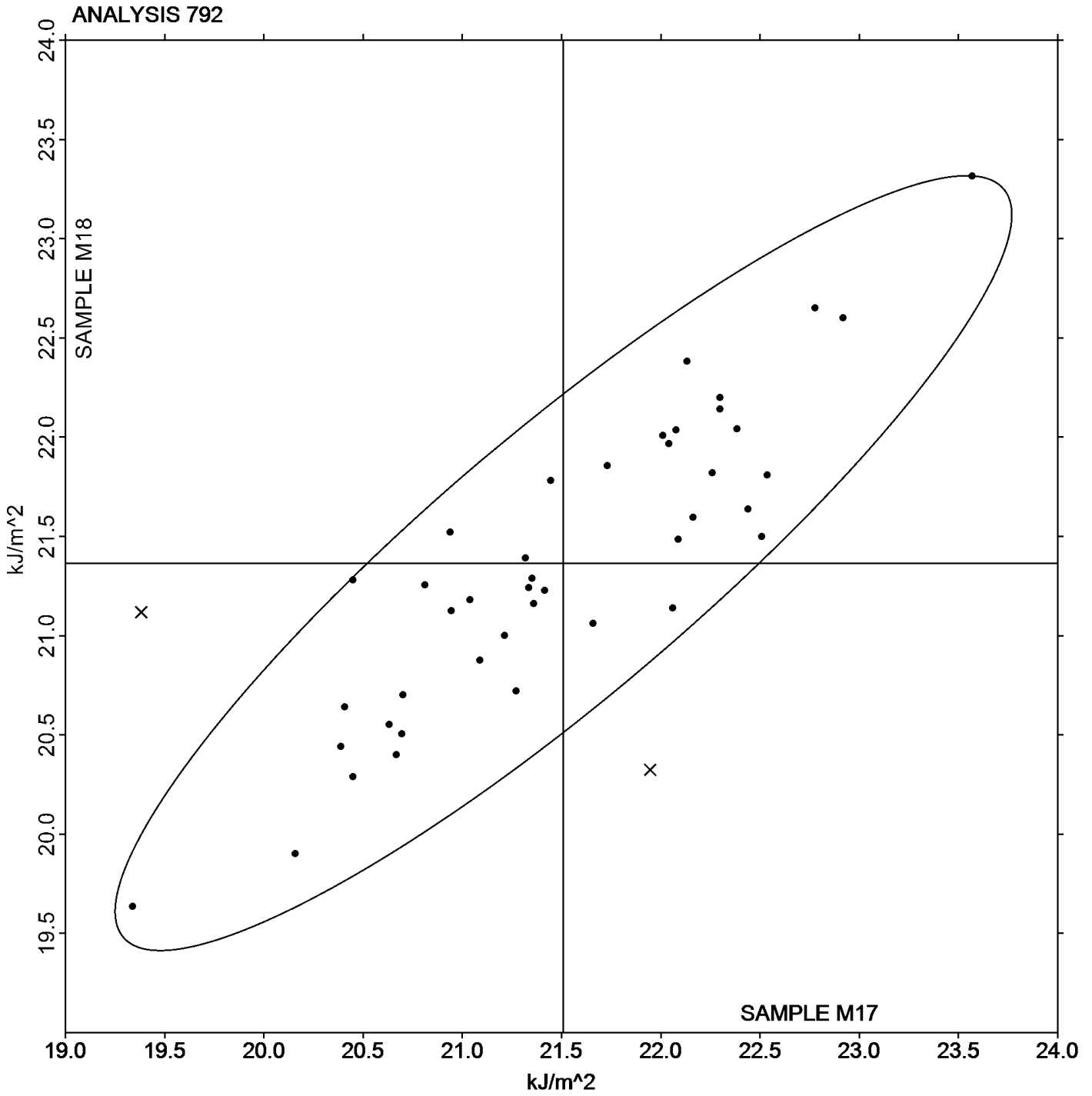
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Analysis 792

2nd Qtr 2026

Notched Charpy Impact - kJ/m^2

Grand Mean Sample M17: 21.509 kJ/m^2 Grand Mean Sample M18: 21.365 kJ/m^2



-End of Report-