

Rubber Interlaboratory Testing Program

Summary Report #225- 3rd Qtr 2025

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Analysis	Analysis Name	Analysis	Analysis Name
605	Tensile Strength: Precured Rubber Samples	689	MDR Vulcanization Charac.: Maximum Torque
606	Ultimate Elongation: Precured Rubber Samples	690	RPA Rheological Properties: Part A - G' at 20Hz
607	Stress at 300% Elongation: Precured Samples	691	RPA Rheological Properties: Part A - G'' at 20Hz
608	Stress at 100% Elongation: Precured Samples	695	RPA Rheological Properties: Part B - G' at 1.0Hz
620	Hardness (Type A): Precured Rubber Samples	696	RPA Rheological Properties: Part B - G'' at 1.0Hz
621	Density: Precured Rubber Samples @ 25C		
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ABOUT THE PROGRAM

The Collaborative Reference Program for RUBBER, which was initiated in 1969, is operated and maintained by Collaborative Testing Services, Inc. (CTS), with technical guidance provided by the Rubber Division of the American Chemical Society. 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 rubber testing proficiency.

For each test there are summary statistics 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. Please refer to the section KEY TO TABLES AND GRAPHS for an explanation of terms and guidelines to interpreting the results.

ABOUT CTS

Founded in 1971, CTS is a privately-owned company that specializes in interlaboratory tests for a wide variety of industries including rubber, plastics, fasteners and metals, containerboard, paper, color, and wine, as well as proficiency tests for forensic laboratories. All of the tests are designed to assist organizations in achieving and maintaining quality control objectives. Labs from the U.S., as well as more than 100 countries, currently participate in CTS programs.

If there are any questions on the report or testing program, please contact:

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WebCode	Assigned laboratory identification number (temporary) used to ensure lab confidentiality while permitting a lab to locate its data in the Rubber 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	Tensile & Hardness: the average of the median values obtained for each sample. All other tests: 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	If instruments are tracked in a test, a code indicating the manufacturer of the instrument used to perform the test (see separate INSTRUMENT CODE LIST for each test section).
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. However, a lab receiving two of more M flags for a test may need to stop and review its testing procedures.

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 data usually vary by more than three standard deviations from the grand mean.) 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.
 5. ***Data appeared to be off by a factor of # and was corrected by CTS*** - In tests that involve computations, the results reported to CTS may be off by a factor. If this factor can easily be determined, CTS may correct the data and flag the participant. Occasionally CTS will correct a laboratory's results even though the data are still high or low when compared to the other participants. This is done so that the laboratory may be alerted to other possible errors in its testing procedure.
 6. ***Data for two samples (or two tests) appeared to be switched by the lab, and the error was corrected by CTS.***
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Labs flagged with an * are not typically included in the footnotes of a data table. These labs may locate their position in the control ellipse and use the definitions above to help identify the type of testing error. An * should serve as a caution flag, a "yellow light", to a lab. If this error is repeated in future rounds, a lab may need to stop and review its testing procedures. The initial data flag is not cause for alarm. Interlaboratory tests conducted at regular intervals permit a lab to recognize trends in testing.



Rubber Interlaboratory Testing Program

Analysis 605

Tensile Strength (psi)

Report #225

3rd Qtr 2025

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23G76W		3,274.5	-31.9	-0.16	3,239.0	59.5	0.34
23YC6M		3,295.3	-11.1	-0.05	3,208.3	28.8	0.16
2RW4EP		3,224.9	-81.4	-0.40	3,062.5	-117.0	-0.66
2U3JWT		3,276.5	-29.9	-0.15	3,162.0	-17.5	-0.10
2VXZ9Q		3,423.5	117.1	0.58	3,167.0	-12.5	-0.07
2X2VRT		2,845.0	-461.4	-2.29	2,830.0	-349.5	-1.98
2YGUAW		3,216.2	-90.1	-0.45	3,021.9	-157.6	-0.89
2YWDUU		3,118.3	-188.0	-0.93	3,118.3	-61.1	-0.35
324VRQ		3,500.9	194.5	0.96	3,190.1	10.6	0.06
3CKPXR		3,217.7	-88.7	-0.44	3,074.1	-105.4	-0.60
4MFHJM		2,997.2	-309.1	-1.53	2,803.6	-375.9	-2.13
62RDCP		3,398.1	91.7	0.45	3,277.7	98.2	0.56
6J9AZV		3,241.6	-64.7	-0.32	3,048.7	-130.8	-0.74
6UBV3M		3,317.0	10.6	0.05	3,124.9	-54.6	-0.31
7FPFYN		3,386.0	79.6	0.39	3,233.5	54.0	0.31
7JTD8V		3,669.0	362.6	1.80	3,390.5	211.0	1.20
7PHQ9J		3,419.0	112.6	0.56	3,246.5	67.0	0.38
7QQ3QK		3,182.7	-123.6	-0.61	3,117.4	-62.0	-0.35
88UYMP		3,341.5	35.1	0.17	3,288.0	108.5	0.62
8AWU7R		3,268.5	-37.9	-0.19	3,089.3	-90.2	-0.51
8FN6FQ		3,288.5	-17.9	-0.09	3,146.0	-33.5	-0.19
8HBTRQ		3,378.0	71.6	0.35	3,386.0	206.5	1.17
8REYQY		3,029.1	-277.2	-1.37	3,062.5	-117.0	-0.66
98N6GN		3,365.6	59.3	0.29	3,351.9	172.4	0.98
9H9D3W		3,318.4	12.0	0.06	3,273.4	93.9	0.53
9JK9KH		3,722.2	415.8	2.06	3,423.4	243.9	1.38
A2CPXQ		3,505.6	199.2	0.99	3,450.5	271.0	1.54
AYLGUG		3,198.1	-108.3	-0.54	3,206.8	27.3	0.15
B8HHRL		3,007.5	-298.9	-1.48	3,064.0	-115.5	-0.65
BC94ME	*	3,592.1	285.8	1.42	3,183.6	4.1	0.02
CALL6U		3,537.5	231.1	1.15	3,325.0	145.5	0.82
CLE9BP		3,238.5	-67.9	-0.34	2,979.0	-200.5	-1.14
CRK26K		3,447.6	141.2	0.70	3,306.9	127.4	0.72
EDVLEQ		3,278.0	-28.4	-0.14	3,013.0	-166.5	-0.94
ENUENG		3,438.5	132.1	0.65	3,269.5	90.0	0.51
F6CKNF		3,508.5	202.1	1.00	3,190.1	10.6	0.06
F6Y4DM		3,322.9	16.6	0.08	3,356.0	176.5	1.00
FBHDBJ		3,343.9	37.5	0.19	3,269.9	90.4	0.51



Rubber Interlaboratory Testing Program

Analysis 605

Tensile Strength (psi)

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3rd Qtr 2025

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
FTHJUQ		3,345.3	39.0	0.19	3,157.5	-22.0	-0.12
FW442F		3,186.0	-120.4	-0.60	3,122.5	-57.0	-0.32
G36PHH		3,384.0	77.6	0.38	3,346.5	167.0	0.95
G6RGF7		3,263.4	-43.0	-0.21	3,284.4	104.9	0.59
GQBLZA		3,306.5	0.2	0.00	3,293.3	113.8	0.65
HJ9KBF		3,057.4	-248.9	-1.23	2,916.7	-262.7	-1.49
HXA6ZJ	*	2,744.4	-561.9	-2.78	2,708.1	-471.4	-2.67
J4B4NE		3,745.0	438.6	2.17	3,400.0	220.5	1.25
JVYUCE		3,170.0	-136.4	-0.68	3,045.0	-134.5	-0.76
JZAVJ4		3,354.0	47.6	0.24	3,298.5	119.0	0.67
KUXG6C		3,204.5	-101.9	-0.50	2,929.0	-250.5	-1.42
KWTVZH		2,939.9	-366.4	-1.82	2,941.4	-238.1	-1.35
L9VUYE		3,300.0	-6.4	-0.03	3,112.5	-67.0	-0.38
LCZ9UK		3,731.7	425.3	2.11	3,507.6	328.1	1.86
LKVCZ3		3,244.0	-62.4	-0.31	3,144.0	-35.5	-0.20
LNTVZF		3,193.5	-112.9	-0.56	3,086.0	-93.5	-0.53
M38HP4		3,438.9	132.6	0.66	3,298.8	119.3	0.68
ML3X49		3,224.6	-81.8	-0.41	3,057.8	-121.7	-0.69
NTWDCD		3,802.2	495.8	2.46	3,559.3	379.8	2.15
NX8QUC		3,385.2	78.9	0.39	3,419.1	239.6	1.36
P4PGTC		3,109.0	-197.4	-0.98	2,931.0	-248.5	-1.41
P7U493		3,549.0	242.6	1.20	3,463.4	283.9	1.61
PUMYHA		3,257.0	-49.4	-0.24	3,059.0	-120.5	-0.68
Q49J2D		3,295.0	-11.4	-0.06	3,145.0	-34.5	-0.20
QCVPP4		3,343.1	36.8	0.18	3,372.2	192.7	1.09
RG7383		3,490.0	183.7	0.91	3,509.6	330.1	1.87
RQCVK4		3,316.0	9.6	0.05	3,262.0	82.5	0.47
U4AV3W		3,118.0	-188.4	-0.93	2,840.5	-339.0	-1.92
U89AM2		3,702.0	395.6	1.96	3,393.5	214.0	1.21
UJ77UA		2,971.7	-334.7	-1.66	2,873.6	-305.9	-1.73
UJKJA7		3,218.5	-87.9	-0.44	2,919.5	-260.0	-1.47
UMRP2Y		3,509.5	203.1	1.01	3,321.5	142.0	0.81
UV24T3		3,332.5	26.1	0.13	3,242.5	63.0	0.36
VC2F24		3,100.0	-206.4	-1.02	2,990.0	-189.5	-1.07
VDVAPZ		3,579.0	272.6	1.35	3,311.0	131.5	0.75
VFFBH2		3,274.3	-32.1	-0.16	3,233.6	54.2	0.31
VGY693		3,231.5	-74.9	-0.37	3,208.5	29.0	0.16



Rubber Interlaboratory Testing Program
Analysis 605
Tensile Strength (psi)

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WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
VKJWK6		3,435.0	128.6	0.64	3,290.0	110.5	0.63
WLAHQ2		3,216.5	-89.9	-0.45	3,107.5	-72.0	-0.41
WVDEQX		3,465.5	159.1	0.79	3,281.0	101.5	0.58
WX3YF3		3,226.5	-79.9	-0.40	3,052.0	-127.5	-0.72
XGCF2R		3,196.5	-109.9	-0.54	3,198.0	18.5	0.10
XGU8DX		3,217.5	-88.9	-0.44	3,139.0	-40.5	-0.23
XUWV6R		3,309.1	2.7	0.01	3,275.7	96.2	0.55
Y9U8DV		3,529.8	223.4	1.11	3,320.9	141.4	0.80
YAZYXW		2,985.0	-321.4	-1.59	2,895.0	-284.5	-1.61
YR67CX		3,086.1	-220.3	-1.09	3,102.2	-77.3	-0.44
YRLDJ2		3,132.5	-173.9	-0.86	3,068.0	-111.5	-0.63
YY3XKR		3,294.6	-11.8	-0.06	3,295.3	115.8	0.66
ZF6VGW		3,634.5	328.1	1.63	3,383.5	204.0	1.16
ZQ7H9T		2,985.6	-320.7	-1.59	2,910.9	-268.6	-1.52

Summary Statistics

Grand Means

3,306.35 psi

3,179.48 psi

Std Dev Btwn Labs

201.88 psi

176.41 psi

Statistics based on 89 of 89 reporting participants

Summary Statistics in SI Units

Grand Means

22.796 MPa

21.920 MPa

Std Dev Btwn Labs

1.392 MPa

1.220 MPa

Statistics based on 89 of 89 reporting participants

Samples C51-C52: Polyisoprene Compound & C53-C54: Polyisoprene Compound



Rubber Interlaboratory Testing Program

Analysis 605

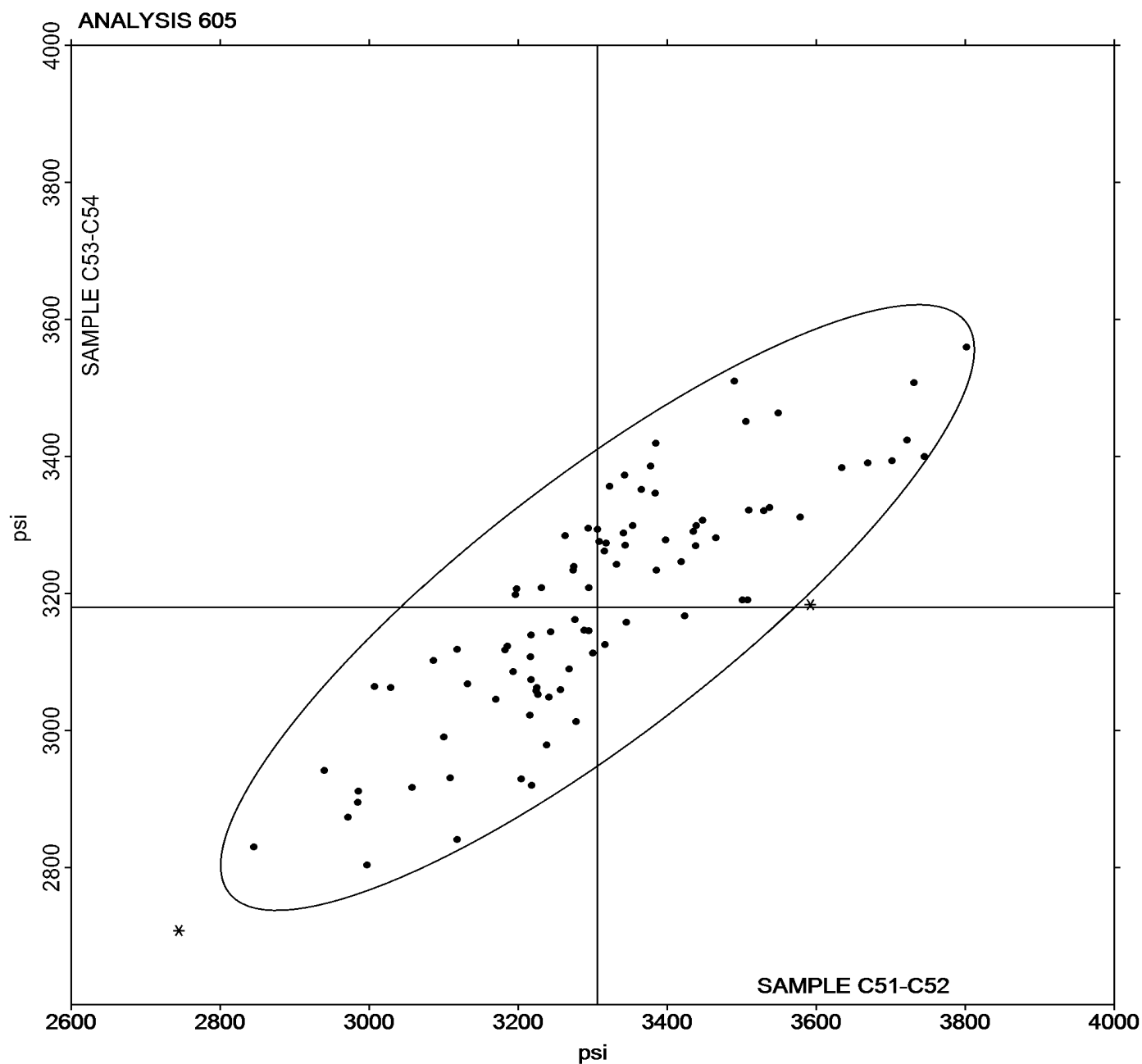
Tensile Strength (psi)

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Grand Mean Sample **C51-C52** = 3,306.35 psi

Grand Mean Sample **C53-C54** = 3,179.48 psi





Rubber Interlaboratory Testing Program

Analysis 606

Ultimate Elongation (percent)

Report #225

3rd Qtr 2025

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23G76W		542.5	-30.4	-0.94	523.0	-44.3	-1.35
23YC6M		606.5	33.6	1.04	589.0	21.7	0.66
2RW4EP		599.5	26.6	0.82	611.5	44.2	1.35
2U3JWT		555.5	-17.4	-0.54	551.0	-16.3	-0.50
2VXZ9Q		587.0	14.1	0.44	606.5	39.2	1.20
2X2VRT		542.5	-30.4	-0.94	545.5	-21.8	-0.67
2YGUAW		538.0	-34.9	-1.08	543.5	-23.8	-0.73
2YWDUU		566.2	-6.7	-0.21	574.9	7.6	0.23
324VRQ		639.5	66.6	2.06	639.5	72.2	2.20
4MFHJM		534.1	-38.8	-1.20	526.3	-41.0	-1.25
62RDCP		582.6	9.7	0.30	565.2	-2.1	-0.06
6J9AZV		543.5	-29.4	-0.91	536.0	-31.3	-0.96
6UBV3M		600.0	27.1	0.84	584.5	17.2	0.53
7FPFYN	X	321.5	-251.4	-7.79	302.5	-264.8	-8.08
7JTD8V		609.0	36.1	1.12	585.5	18.2	0.56
7PHQ9J		573.5	0.6	0.02	567.0	-0.3	-0.01
7QQ3QK		554.5	-18.4	-0.57	548.1	-19.2	-0.59
88UYMP		585.0	12.1	0.37	583.0	15.7	0.48
8AWU7R		606.0	33.1	1.02	574.5	7.2	0.22
8FN6FQ		539.5	-33.4	-1.04	533.5	-33.8	-1.03
8HBTRQ		572.5	-0.4	-0.01	564.5	-2.8	-0.09
8REYQY		528.0	-44.9	-1.39	530.5	-36.8	-1.12
98N6GN		561.5	-11.4	-0.35	573.5	6.2	0.19
9H9D3W		603.4	30.4	0.94	618.4	51.1	1.56
9JK9KH	*	495.7	-77.3	-2.39	476.8	-90.5	-2.76
A2CPXQ	*	623.0	50.1	1.55	640.5	73.2	2.23
AYLGUG		619.1	46.1	1.43	619.2	51.9	1.59
B8HHRL		580.0	7.1	0.22	577.0	9.7	0.30
BC94ME	*	605.2	32.2	1.00	559.9	-7.4	-0.23
CALL6U		579.0	6.1	0.19	587.5	20.2	0.62
CLE9BP		515.0	-57.9	-1.80	516.0	-51.3	-1.57
CRK26K		574.5	1.6	0.05	564.5	-2.8	-0.09
EDVLEQ		593.5	20.6	0.64	584.0	16.7	0.51
ENUENG		572.0	-0.9	-0.03	567.5	0.2	0.01
F6CKNF		619.1	46.1	1.43	602.5	35.2	1.08
F6Y4DM		598.3	25.4	0.79	594.5	27.2	0.83
FBHDJB		565.8	-7.1	-0.22	555.4	-11.9	-0.36
FTHJUQ		570.5	-2.4	-0.08	579.5	12.2	0.37



Rubber Interlaboratory Testing Program

Analysis 606

Ultimate Elongation (percent)

Report #225

3rd Qtr 2025

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
FW442F		569.5	-3.4	-0.11	561.0	-6.3	-0.19
G36PHH		554.0	-18.9	-0.59	555.0	-12.3	-0.38
G6RGF7		582.0	9.1	0.28	569.5	2.2	0.07
GQBLZA		591.2	18.3	0.57	583.4	16.1	0.49
HJ9KBF		516.1	-56.9	-1.76	507.8	-59.5	-1.82
HXA6ZJ		529.3	-43.6	-1.35	514.3	-53.0	-1.62
J4B4NE	X	691.5	118.6	3.67	651.5	84.2	2.57
JVYUCE		512.0	-60.9	-1.89	504.0	-63.3	-1.93
JZAVJ4		598.5	25.6	0.79	576.0	8.7	0.27
KG9GDA		554.7	-18.3	-0.57	562.6	-4.7	-0.15
KUXG6C		580.5	7.6	0.23	573.0	5.7	0.17
KWTVZH		555.5	-17.4	-0.54	550.5	-16.8	-0.51
L9VUYE		600.1	27.1	0.84	592.3	25.0	0.76
LCZ9UK		609.8	36.8	1.14	582.6	15.3	0.47
LKVCZ3		536.5	-36.4	-1.13	548.5	-18.8	-0.57
LNTVZF		560.0	-12.9	-0.40	561.5	-5.8	-0.18
M38HP4		605.7	32.7	1.01	588.0	20.7	0.63
ML3X49		584.0	11.1	0.34	579.8	12.5	0.38
NTWDCD		617.4	44.4	1.38	596.9	29.6	0.90
NX8QUC		585.5	12.6	0.39	588.0	20.7	0.63
P4PGTC		569.5	-3.4	-0.11	561.5	-5.8	-0.18
P7U493		598.5	25.6	0.79	595.0	27.7	0.85
PUMYHA	*	641.5	68.6	2.12	649.0	81.7	2.49
Q49J2D		560.0	-12.9	-0.40	540.0	-27.3	-0.83
QCVPP4		556.5	-16.4	-0.51	567.5	0.2	0.01
RG7383		575.1	2.2	0.07	591.2	23.9	0.73
RQCVK4		585.0	12.1	0.37	585.0	17.7	0.54
U4AV3W		573.0	0.1	0.00	565.5	-1.8	-0.05
U89AM2		595.5	22.6	0.70	581.0	13.7	0.42
UJ77UA		525.6	-47.4	-1.47	531.8	-35.5	-1.08
UJKJA7		527.5	-45.4	-1.41	504.5	-62.8	-1.92
UMRP2Y		581.5	8.6	0.27	580.0	12.7	0.39
UV24T3		517.5	-55.4	-1.72	519.5	-47.8	-1.46
VC2F24	X	1,260.0	687.1	21.29	1,255.0	687.7	21.00
VDVAPZ		549.0	-23.9	-0.74	528.5	-38.8	-1.18
VFFBH2		606.8	33.8	1.05	589.0	21.7	0.66
VGY693		593.5	20.6	0.64	578.0	10.7	0.33



Rubber Interlaboratory Testing Program

Analysis 606

Ultimate Elongation (percent)

Report #225

3rd Qtr 2025

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
VKJWK6		600.0	27.1	0.84	581.5	14.2	0.43
WLAHQ2	*	550.0	-22.9	-0.71	580.5	13.2	0.40
WVDEQX		555.0	-17.9	-0.56	565.5	-1.8	-0.05
WX3YF3		536.0	-36.9	-1.14	522.0	-45.3	-1.38
XGCF2R		585.5	12.6	0.39	557.5	-9.8	-0.30
XGU8DX		580.0	7.1	0.22	565.0	-2.3	-0.07
XUWV6R		548.5	-24.4	-0.76	553.5	-13.8	-0.42
Y9U8DV		637.1	64.2	1.99	630.2	62.9	1.92
YAZYXW		592.5	19.6	0.61	557.5	-9.8	-0.30
YR67CX		601.4	28.5	0.88	618.8	51.5	1.57
YRLDJ2		566.0	-6.9	-0.22	564.5	-2.8	-0.09
YY3XKR		560.5	-12.4	-0.39	564.5	-2.8	-0.09
ZF6VGW		589.5	16.6	0.51	567.0	-0.3	-0.01
ZQ7H9T	*	492.0	-80.9	-2.51	498.5	-68.8	-2.10

Grand Means		Summary Statistics	
	572.94 percent		567.30 percent
Std Dev Btwn Labs	32.28 percent		32.75 percent
Statistics based on 86 of 89 reporting participants			

Samples C51-C52: Polyisoprene Compound & C53-C54: Polyisoprene Compound

Comments on Assigned Data Flags for Test #606

7FPFYN (X) - Data for all samples are low. Possible Systematic Error. Inconsistent within the determinations of both sample groups.

J4B4NE (X) - Data for sample group C51-C52 are high.

VC2F24 (X) - Extreme Data.



Rubber Interlaboratory Testing Program

Analysis 606

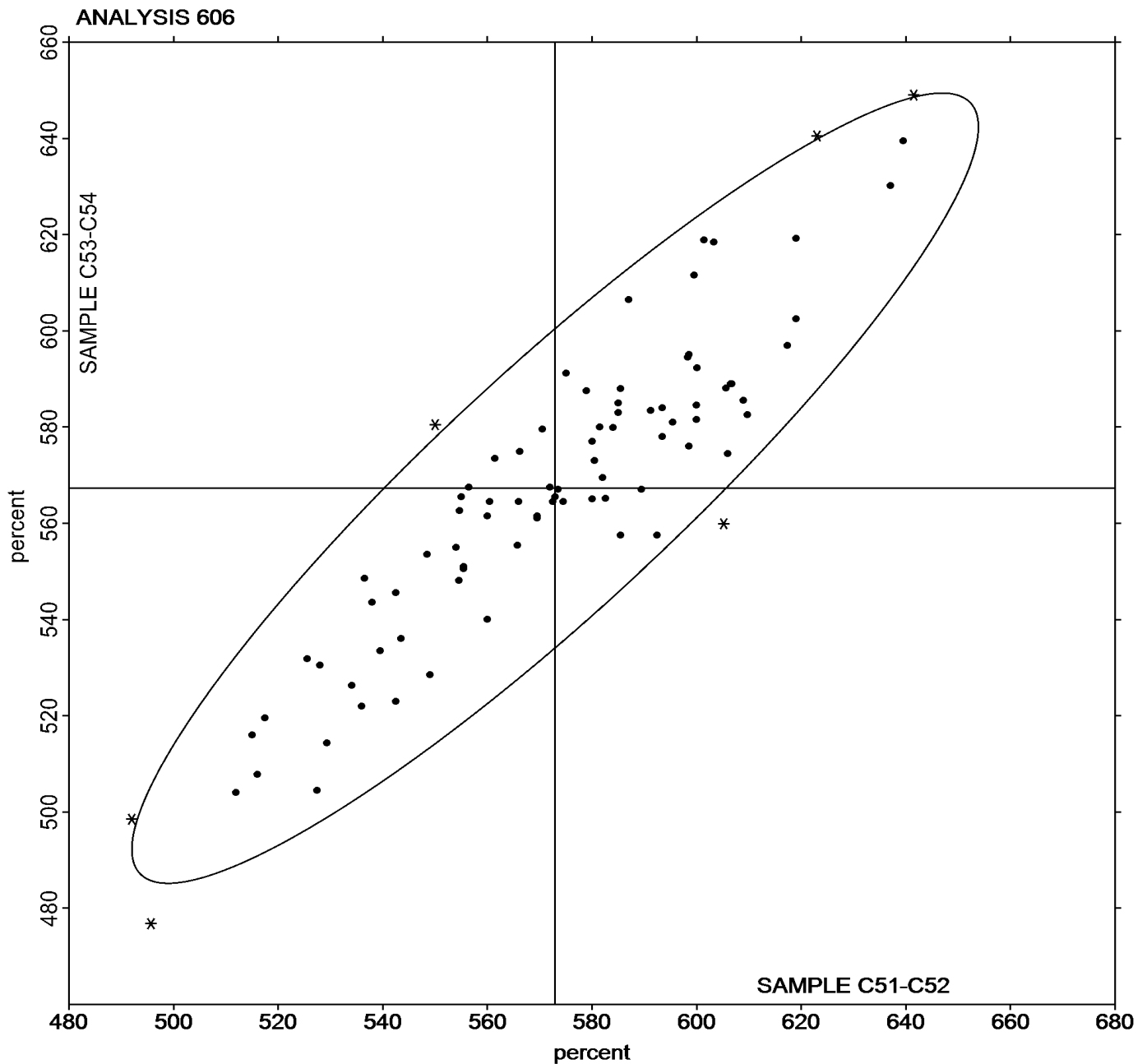
Ultimate Elongation (percent)

Report #225

3rd Qtr 2025

Grand Mean Sample C51-C52 = 572.94 percent

Grand Mean Sample C53-C54 = 567.30 percent





Rubber Interlaboratory Testing Program

Analysis 607

Report #225

3rd Qtr 2025

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23G76W		1,223.5	32.0	0.35	1,188.0	35.7	0.38
23YC6M		1,065.3	-126.1	-1.36	1,090.7	-61.6	-0.66
2U3JWT		1,316.5	125.0	1.35	1,202.5	50.2	0.54
2VXZ9Q		1,149.5	-42.0	-0.45	1,006.0	-146.3	-1.56
2X2VRT		1,070.5	-121.0	-1.30	1,072.5	-79.8	-0.85
2YGUAUW		1,283.6	92.1	0.99	1,170.5	18.2	0.19
2YWDUU		1,203.1	11.6	0.13	1,144.4	-7.9	-0.08
324VRQ	*	1,073.9	-117.6	-1.27	931.6	-220.7	-2.36
4MFHJM		1,171.9	-19.5	-0.21	1,106.6	-45.6	-0.49
62RDCP		1,156.8	-34.7	-0.37	1,206.3	54.1	0.58
6J9AZV		1,258.2	66.8	0.72	1,143.6	-8.6	-0.09
6UBV3M		1,116.6	-74.9	-0.81	1,082.7	-69.6	-0.74
7FPFYN	*	1,340.5	149.0	1.60	1,388.5	236.2	2.53
7JTD8V		1,155.5	-36.0	-0.39	1,164.0	11.7	0.13
7PHQ9J		1,271.0	79.5	0.86	1,190.5	38.2	0.41
7QQ3QK		1,277.2	85.8	0.92	1,237.5	85.2	0.91
88UYMP		1,230.5	39.0	0.42	1,187.5	35.2	0.38
8AWU7R		1,082.0	-109.5	-1.18	1,124.8	-27.5	-0.29
8FN6FQ		1,327.5	136.0	1.46	1,306.5	154.2	1.65
8HBTRQ		1,165.5	-26.0	-0.28	1,153.0	0.7	0.01
8REYQY		1,206.7	15.3	0.16	1,253.1	100.9	1.08
98N6GN		1,155.2	-36.2	-0.39	1,099.4	-52.9	-0.57
9H9D3W		1,190.7	-0.7	-0.01	1,103.7	-48.6	-0.52
9JK9KH	X	1,739.8	548.4	5.90	1,674.9	522.7	5.59
A2CPXQ		1,126.2	-65.2	-0.70	1,031.2	-121.1	-1.29
AYLGUG	*	961.6	-229.9	-2.47	907.9	-244.3	-2.61
B8HHRL		1,150.0	-41.5	-0.45	1,105.0	-47.3	-0.51
BC94ME		1,159.2	-32.2	-0.35	1,195.0	42.8	0.46
CALL6U		1,152.3	-39.1	-0.42	1,029.1	-123.2	-1.32
CLE9BP		1,322.5	131.0	1.41	1,262.0	109.7	1.17
CRK26K		1,265.5	74.0	0.80	1,218.3	66.0	0.71
EDVLEQ		1,083.5	-108.0	-1.16	1,022.5	-129.8	-1.39
F6CKNF		1,142.2	-49.3	-0.53	1,104.5	-47.8	-0.51
F6Y4DM		1,128.4	-63.0	-0.68	1,116.3	-36.0	-0.38
FBHDJB		1,274.9	83.4	0.90	1,218.3	66.0	0.71
FTHJUQ		1,137.8	-53.6	-0.58	1,085.6	-66.7	-0.71
G36PHH		1,136.0	-55.5	-0.60	1,149.5	-2.8	-0.03
G6RGF7		1,119.7	-71.8	-0.77	1,185.7	33.4	0.36



Rubber Interlaboratory Testing Program

Analysis 607

Report #225

3rd Qtr 2025

Stress at 300% Elongation (psi)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
GQBLZA		1,113.2	-78.3	-0.84	1,116.8	-35.5	-0.38
HJ9KBF		1,298.1	106.6	1.15	1,219.8	67.5	0.72
HXA6ZJ		1,117.7	-73.8	-0.79	1,113.7	-38.6	-0.41
J4B4NE		997.5	-194.0	-2.09	981.9	-170.3	-1.82
JVYUCE	X	262.0	-929.5	-10.01	257.5	-894.8	-9.57
JZAVJ4		1,132.0	-59.5	-0.64	1,171.0	18.7	0.20
KUXG6C		1,090.0	-101.5	-1.09	1,025.5	-126.8	-1.36
KWTVZH		1,124.8	-66.7	-0.72	1,098.7	-53.6	-0.57
L9VUYE		1,116.0	-75.5	-0.81	1,026.5	-125.8	-1.34
LCZ9UK		1,188.1	-3.4	-0.04	1,235.0	82.7	0.88
LKVCZ3		1,369.0	177.5	1.91	1,294.5	142.2	1.52
LNTVZF		1,215.0	23.5	0.25	1,142.0	-10.3	-0.11
M38HP4		1,105.9	-85.5	-0.92	1,107.3	-45.0	-0.48
ML3X49		1,115.3	-76.1	-0.82	1,050.4	-101.8	-1.09
NTWDCD		1,257.5	66.0	0.71	1,235.7	83.5	0.89
NX8QUC		1,200.4	8.9	0.10	1,198.2	46.0	0.49
P4PGTC		1,129.5	-62.0	-0.67	1,078.0	-74.3	-0.79
P7U493		1,210.7	19.2	0.21	1,169.3	17.0	0.18
Q49J2D		1,230.0	38.5	0.42	1,245.0	92.7	0.99
QCVPP4	X	638.9	-552.6	-5.95	633.1	-519.2	-5.55
RG7383		1,283.9	92.4	1.00	1,195.7	43.4	0.46
RQCVK4		1,147.0	-44.5	-0.48	1,123.0	-29.3	-0.31
U4AV3W		1,164.0	-27.5	-0.30	1,066.5	-85.8	-0.92
U89AM2		1,298.0	106.5	1.15	1,227.5	75.2	0.80
UJ77UA		1,235.2	43.7	0.47	1,109.4	-42.9	-0.46
UJKJA7		1,223.0	31.5	0.34	1,209.5	57.2	0.61
UV24T3		1,380.5	189.0	2.04	1,302.0	149.7	1.60
VC2F24	X	331.5	-860.0	-9.26	311.0	-841.3	-8.99
VDVAPZ		1,411.5	220.0	2.37	1,364.5	212.2	2.27
VGY693		1,175.0	-16.5	-0.18	1,210.0	57.7	0.62
VKJWK6		1,169.0	-22.5	-0.24	1,171.0	18.7	0.20
WLAHQ2		1,242.0	50.5	0.54	1,119.5	-32.8	-0.35
WVDEQX		1,258.0	66.5	0.72	1,196.0	43.7	0.47
WX3YF3		1,225.5	34.0	0.37	1,199.0	46.7	0.50
XGCF2R		1,059.5	-132.0	-1.42	1,013.0	-139.3	-1.49
XGU8DX		1,197.5	6.0	0.07	1,231.0	78.7	0.84
XUWV6R		1,324.2	132.8	1.43	1,264.7	112.5	1.20



Rubber Interlaboratory Testing Program

Analysis 607

Stress at 300% Elongation (psi)

Report #225

3rd Qtr 2025

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
Y9U8DV		1,085.0	-106.4	-1.15	1,031.6	-120.7	-1.29
YR67CX		1,143.5	-47.9	-0.52	1,127.9	-24.4	-0.26
YRLDJ2		1,125.0	-66.5	-0.72	1,103.0	-49.3	-0.53
YY3XKR		1,232.8	41.4	0.45	1,227.8	75.5	0.81
ZF6VGW		1,255.5	64.0	0.69	1,224.5	72.2	0.77
ZQ7H9T	*	1,443.9	252.4	2.72	1,314.1	161.8	1.73

Summary Statistics

Grand Means

1,191.45 psi

1,152.28 psi

Std Dev Btwn Labs

92.89 psi

93.55 psi

Statistics based on 77 of 81 reporting participants

Summary Statistics in SI Units

Grand Means

8.2147 MPa

7.9400 MPa

Std Dev Btwn Labs

0.6404 MPa

0.6400 MPa

Statistics based on 77 of 81 reporting participants

Samples C51-C52: Polyisoprene Compound & C53-C54: Polyisoprene Compound

Comments on Assigned Data Flags for Test #607

9JK9KH (X) - Data for all samples are high. Possible Systematic Error.

JVYUCE (X) - Extreme Data.

QCVPP4 (X) - Data for all samples are low. Possible Systematic Error.

VC2F24 (X) - Extreme Data.



Rubber Interlaboratory Testing Program

Analysis 607

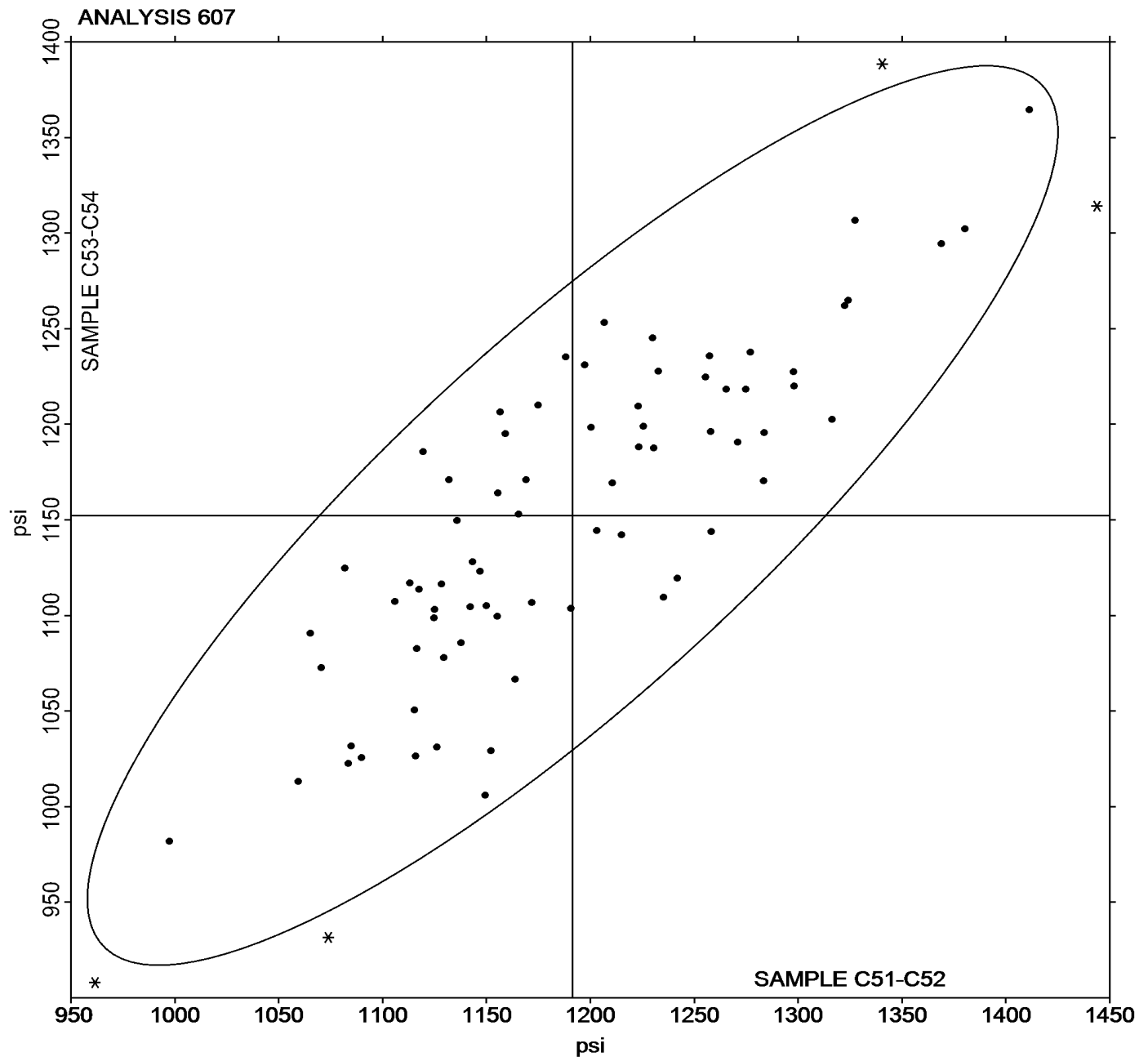
Stress at 300% Elongation (psi)

Report #225

3rd Qtr 2025

Grand Mean Sample **C51-C52** = 1,191.45 psi

Grand Mean Sample **C53-C54** = 1,152.28 psi





Rubber Interlaboratory Testing Program

Analysis 608

Report #225

3rd Qtr 2025

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23G76W		225.0	-4.2	-0.27	213.5	-10.0	-0.70
23YC6M		203.8	-25.4	-1.64	213.9	-9.6	-0.67
2U3JWT		245.5	16.3	1.05	226.0	2.5	0.17
2VXZ9Q	*	225.5	-3.7	-0.24	198.5	-25.0	-1.75
2X2VRT		215.5	-13.7	-0.88	212.5	-11.0	-0.77
2YGUAUW		230.6	1.4	0.09	220.5	-3.1	-0.21
2YWDUU		220.5	-8.7	-0.56	215.4	-8.2	-0.57
324VRQ	*	225.4	-3.8	-0.24	199.2	-24.3	-1.70
4MFHJM		213.2	-16.0	-1.03	208.9	-14.7	-1.03
62RDCP		222.7	-6.5	-0.42	239.9	16.3	1.14
6J9AZV		232.8	3.6	0.23	213.2	-10.3	-0.72
6UBV3M		209.5	-19.8	-1.27	211.1	-12.4	-0.87
7FPFYN		237.0	7.8	0.50	241.0	17.5	1.22
7JTD8V		224.5	-4.7	-0.30	226.5	3.0	0.21
7PHQ9J		238.0	8.8	0.57	221.5	-2.0	-0.14
7QQ3QK		245.3	16.1	1.04	230.5	7.0	0.49
88UYMP		234.0	4.8	0.31	225.0	1.5	0.10
8AWU7R		219.0	-10.2	-0.66	223.4	-0.2	-0.01
8FN6FQ		255.0	25.8	1.66	243.0	19.5	1.36
8HBTRQ		211.5	-17.7	-1.14	223.5	0.0	0.00
8REYQY		228.4	-0.8	-0.05	226.3	2.7	0.19
98N6GN		219.7	-9.5	-0.61	209.6	-14.0	-0.97
9H9D3W		211.3	-17.9	-1.15	205.7	-17.8	-1.25
9JK9KH	X	314.9	85.7	5.51	301.4	77.9	5.44
A2CPXQ	X	284.3	55.1	3.54	262.5	39.0	2.72
AYLGUG		198.7	-30.5	-1.96	190.0	-33.5	-2.34
B8HHRL	*	275.0	45.8	2.94	262.0	38.5	2.69
BC94ME		215.9	-13.3	-0.86	226.1	2.6	0.18
CALL6U		211.0	-18.2	-1.17	192.2	-31.4	-2.19
CLE9BP		254.0	24.8	1.59	244.0	20.5	1.43
CRK26K		237.9	8.7	0.56	229.9	6.3	0.44
EDVLEQ		209.5	-19.7	-1.27	209.0	-14.5	-1.02
ENUENG		238.0	8.8	0.57	226.5	3.0	0.21
F6CKNF		219.0	-10.2	-0.66	219.0	-4.5	-0.32
F6Y4DM		219.0	-10.2	-0.66	216.2	-7.3	-0.51
FBHDJB		240.8	11.6	0.74	235.7	12.2	0.85
FTHJUQ		216.1	-13.1	-0.84	206.0	-17.6	-1.23
G36PHH		220.5	-8.7	-0.56	219.0	-4.5	-0.32

**Rubber Interlaboratory Testing Program****Analysis 608****Report #225****3rd Qtr 2025****Stress at 100% Elongation (psi)**

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
G6RGF7		219.0	-10.2	-0.66	222.6	-0.9	-0.06
GQBLZA		213.2	-16.0	-1.03	211.8	-11.8	-0.82
HJ9KBF		229.2	0.0	0.00	211.8	-11.8	-0.82
HXA6ZJ		211.1	-18.1	-1.16	206.0	-17.5	-1.22
J4B4NE		210.3	-19.0	-1.22	206.9	-16.6	-1.16
JVYUCE	X	100.5	-128.7	-8.28	102.0	-121.5	-8.49
JZAVJ4		218.0	-11.2	-0.72	224.0	0.5	0.03
KUXG6C		241.5	12.3	0.79	233.5	10.0	0.70
KWTVZH		225.5	-3.7	-0.24	220.5	-3.1	-0.21
L9VUYE		235.5	6.3	0.40	213.5	-10.0	-0.70
LCZ9UK		230.1	0.8	0.05	235.6	12.1	0.84
LKVCZ3	*	269.5	40.3	2.59	259.5	36.0	2.51
LNTVZF		226.0	-3.2	-0.21	222.0	-1.5	-0.11
M38HP4		211.6	-17.7	-1.14	211.8	-11.7	-0.82
ML3X49		222.3	-6.9	-0.45	210.3	-13.2	-0.92
NTWDCD		238.1	8.9	0.57	237.1	13.5	0.95
NX8QUC		231.5	2.2	0.14	233.2	9.7	0.67
P4PGTC		226.5	-2.7	-0.17	222.0	-1.5	-0.11
P7U493		234.7	5.4	0.35	229.4	5.8	0.41
Q49J2D		234.5	5.3	0.34	238.0	14.5	1.01
QCVPP4		240.0	10.8	0.70	245.1	21.6	1.51
RG7383		251.8	22.6	1.46	227.5	4.0	0.28
RQCVK4		230.0	0.8	0.05	230.0	6.5	0.45
U4AV3W		224.0	-5.2	-0.33	204.5	-19.0	-1.33
U89AM2		247.0	17.8	1.14	235.5	12.0	0.84
UJ77UA		244.2	14.9	0.96	218.0	-5.6	-0.39
UJKJA7		225.0	-4.2	-0.27	232.5	9.0	0.63
UV24T3		259.5	30.3	1.95	249.5	26.0	1.81
VC2F24	X	122.5	-106.7	-6.86	120.5	-103.0	-7.20
VDVAPZ		249.5	20.3	1.30	248.0	24.5	1.71
VFFBH2		206.7	-22.5	-1.45	216.1	-7.4	-0.52
VGY693	X	272.0	42.8	2.75	282.0	58.5	4.08
VKJWK6		231.0	1.8	0.12	232.0	8.5	0.59
WLAHQ2		228.5	-0.7	-0.05	219.5	-4.0	-0.28
WVDEQX		222.5	-6.7	-0.43	222.0	-1.5	-0.11
WX3YF3		222.5	-6.7	-0.43	216.0	-7.5	-0.53
XGCF2R		221.0	-8.2	-0.53	216.5	-7.0	-0.49



Rubber Interlaboratory Testing Program

Analysis 608

Report #225

3rd Qtr 2025

Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
XGU8DX		235.5	6.3	0.40	238.0	14.5	1.01
XUWV6R		259.6	30.4	1.96	242.9	19.4	1.36
Y9U8DV		224.8	-4.4	-0.28	222.0	-1.5	-0.11
YR67CX		223.3	-5.9	-0.38	221.9	-1.7	-0.12
YRLDJ2		214.5	-14.7	-0.95	213.0	-10.5	-0.74
YY3XKR		232.1	2.9	0.18	232.8	9.3	0.65
ZF6VGW		243.0	13.8	0.89	237.0	13.5	0.94
ZQ7H9T		265.4	36.2	2.33	242.2	18.7	1.30

Grand Means		Summary Statistics	
	229.21 psi		223.54 psi
Std Dev Btwn Labs	15.55 psi		14.32 psi
		Statistics based on 78 of 83 reporting participants	

Grand Means		Summary Statistics in SI Units	
	1.5803 MPa		1.5400 MPa
Std Dev Btwn Labs	0.1072 MPa		0.1000 MPa
		Statistics based on 78 of 83 reporting participants	

Samples C51-C52: Polyisoprene Compound & C53-C54: Polyisoprene Compound

Comments on Assigned Data Flags for Test #608

9JK9KH (X) - Data for all samples are high. Possible Systematic Error.

A2CPXQ (X) - Data for sample group C51-C52 are high.

JVYUCE (X) - Data for all samples are low. Possible Systematic Error.

VC2F24 (X) - Data for all samples are low. Possible Systematic Error.

VGY693 (X) - Data for all samples are high. Possible Systematic Error. Inconsistent within the determinations of sample group C53-C54.



Rubber Interlaboratory Testing Program

Analysis 608

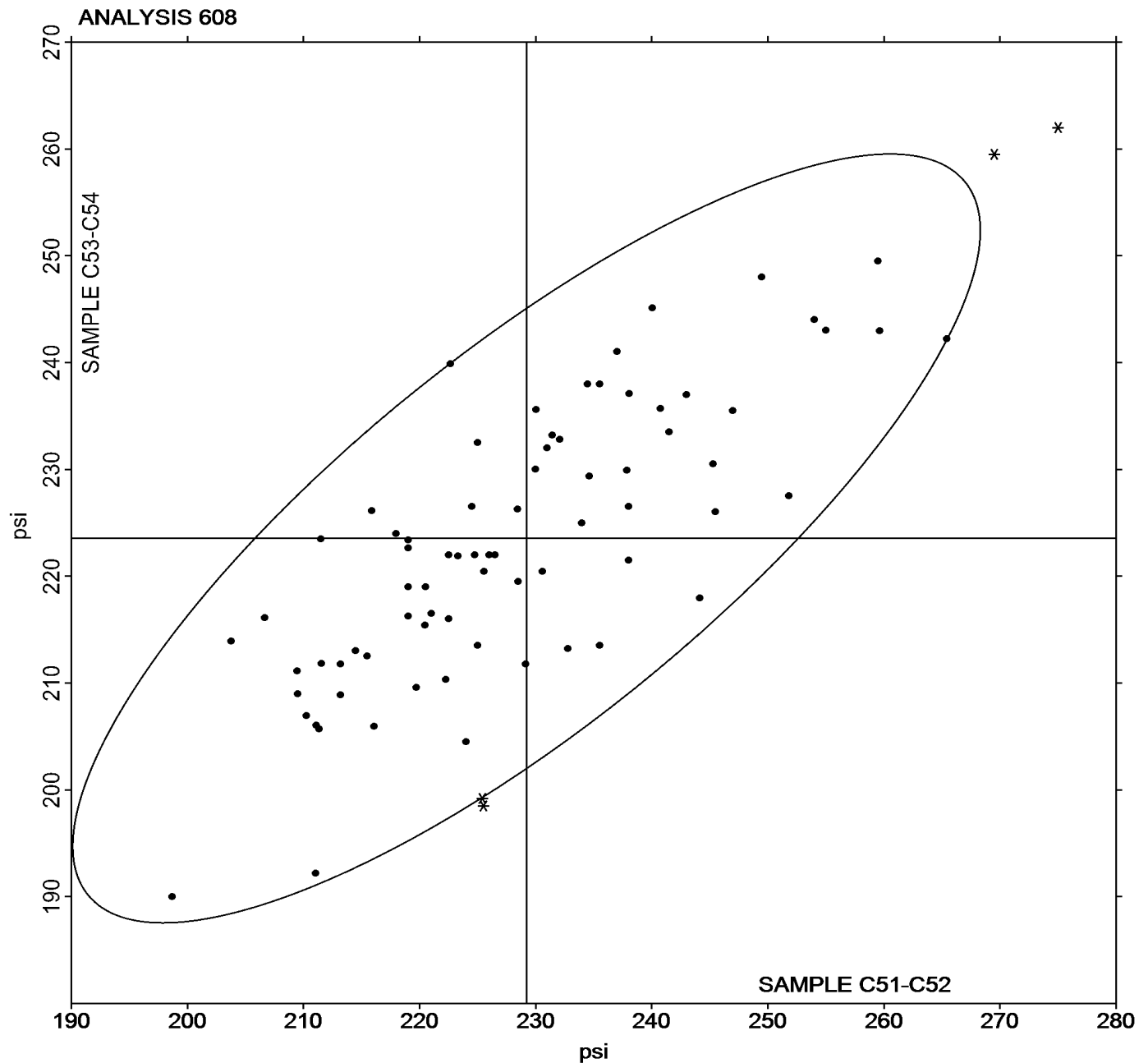
Stress at 100% Elongation (psi)

Report #225

3rd Qtr 2025

Grand Mean Sample **C51-C52** = 229.21 psi

Grand Mean Sample **C53-C54** = 223.54 psi





Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

Report #225

3rd Qtr 2025

WebCode	Data Flag	Sample C51-C52			Sample C53-C54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
23G76W		50.00	-0.40	-0.24	48.50	-1.66	-1.03	HH
23YC6M		51.00	0.60	0.37	51.00	0.84	0.52	BT
2RW4EP		48.00	-2.40	-1.48	48.50	-1.66	-1.03	BT
2U3JWT		50.50	0.10	0.06	48.50	-1.66	-1.03	BT
2VXZ9Q		51.75	1.35	0.83	50.25	0.09	0.06	BT
2X2VRT		52.00	1.60	0.99	52.00	1.84	1.14	BT
2YGUAUW		48.75	-1.65	-1.01	47.85	-2.31	-1.44	BT
2YWDUU		51.15	0.75	0.46	51.40	1.24	0.77	BT
324VRQ		51.35	0.95	0.59	48.95	-1.21	-0.75	BT
3CKPXR		48.65	-1.75	-1.08	48.60	-1.56	-0.97	BT
4MFHJM		50.05	-0.35	-0.21	50.30	0.14	0.09	BT
62RDCP		51.00	0.60	0.37	52.70	2.54	1.58	XX
6J9AZV		48.45	-1.95	-1.20	48.80	-1.36	-0.85	BT
6UBV3M		49.75	-0.65	-0.40	50.10	-0.06	-0.04	BT
7FPFYN		50.00	-0.40	-0.24	49.00	-1.16	-0.72	BT
7JTD8V	*	46.00	-4.40	-2.71	47.50	-2.66	-1.65	BT
7PHQ9J		49.50	-0.90	-0.55	50.00	-0.16	-0.10	BT
7QQ3QK		48.40	-2.00	-1.23	47.90	-2.26	-1.41	BT
88UYMP		49.00	-1.40	-0.86	48.50	-1.66	-1.03	BT
8AWU7R		50.15	-0.25	-0.15	50.40	0.24	0.15	BT
8HBTRQ		50.55	0.15	0.10	50.45	0.29	0.18	HH
8REYQY	*	52.65	2.25	1.39	50.10	-0.06	-0.04	BT
98N6GN		52.10	1.70	1.05	51.95	1.79	1.11	BT
9H9D3W		50.75	0.35	0.22	51.25	1.09	0.68	HH
9JK9KH		50.25	-0.15	-0.09	48.50	-1.66	-1.03	BT
A2CPXQ		52.00	1.60	0.99	52.00	1.84	1.14	BT
AYLGUG		49.00	-1.40	-0.86	48.00	-2.16	-1.34	BT
B8HHRL		51.50	1.10	0.68	51.50	1.34	0.83	BT
BC94ME		52.50	2.10	1.30	51.00	0.84	0.52	HH
BD4MPF		47.40	-3.00	-1.85	47.20	-2.96	-1.84	BT
CALL6U		51.90	1.50	0.93	50.55	0.39	0.24	XX
CLE9BP		50.00	-0.40	-0.24	51.00	0.84	0.52	HH
CRK26K		51.00	0.60	0.37	51.25	1.09	0.68	BT
EDVLEQ		48.65	-1.75	-1.08	49.70	-0.46	-0.29	BT
ENUENG		50.65	0.25	0.16	50.80	0.64	0.40	BT
F6CKNF		49.30	-1.10	-0.67	50.10	-0.06	-0.04	XX
F6VLFN		50.00	-0.40	-0.24	50.50	0.34	0.21	BT
F6Y4DM		50.50	0.10	0.06	50.00	-0.16	-0.10	HH



Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

Report #225

3rd Qtr 2025

WebCode	Data Flag	Sample C51-C52			Sample C53-C54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
FBH DJB		50.50	0.10	0.06	51.00	0.84	0.52	BT
FTHJUQ		51.75	1.35	0.83	50.30	0.14	0.09	BT
FW442F		52.00	1.60	0.99	51.00	0.84	0.52	BT
G36PHH		50.50	0.10	0.06	49.75	-0.41	-0.25	HH
G6RGF7		49.50	-0.90	-0.55	49.50	-0.66	-0.41	BT
GQBLZA		47.90	-2.50	-1.54	47.90	-2.26	-1.41	BT
HJ9KBF		52.00	1.60	0.99	50.50	0.34	0.21	BT
HXA6ZJ		50.75	0.35	0.22	50.95	0.79	0.49	BT
J4B4NE		50.00	-0.40	-0.24	51.00	0.84	0.52	HH
JVYUCE		48.20	-2.20	-1.35	48.80	-1.36	-0.85	BT
JZAVJ4		53.50	3.10	1.91	52.00	1.84	1.14	HH
KLNRQE		50.00	-0.40	-0.24	50.00	-0.16	-0.10	BT
KUXG6C		49.00	-1.40	-0.86	49.00	-1.16	-0.72	BT
KWTVZH		47.75	-2.65	-1.63	47.40	-2.76	-1.72	BT
L9VUYE		51.00	0.60	0.37	50.50	0.34	0.21	BT
LCZ9UK		53.45	3.05	1.88	53.80	3.64	2.26	BT
LKVCZ3		53.05	2.65	1.64	53.40	3.24	2.01	BT
LNTVZF		52.50	2.10	1.30	53.00	2.84	1.77	BT
M38HP4	X	45.50	-4.90	-3.02	47.50	-2.66	-1.65	BT
ML3X49		49.50	-0.90	-0.55	50.00	-0.16	-0.10	BT
NTWDCD		49.05	-1.35	-0.83	47.20	-2.96	-1.84	BT
NX8QUC		49.65	-0.75	-0.46	48.80	-1.36	-0.85	BT
P4PGTC		48.55	-1.85	-1.14	48.25	-1.91	-1.19	BT
P7U493		50.30	-0.10	-0.06	49.95	-0.21	-0.13	BT
PUMYHA	*	54.00	3.60	2.22	55.00	4.84	3.01	HH
Q49J2D		52.50	2.10	1.30	52.50	2.34	1.46	BT
QCVPP4		51.30	0.90	0.56	51.65	1.49	0.93	BT
RG7383		50.55	0.15	0.10	49.10	-1.06	-0.66	BT
RQCVK4		51.50	1.10	0.68	49.50	-0.66	-0.41	BT
U4AV3W		51.85	1.45	0.90	49.50	-0.66	-0.41	BT
U89AM2		50.00	-0.40	-0.24	50.00	-0.16	-0.10	BT
UEXK8X		50.50	0.10	0.06	50.50	0.34	0.21	BT
UJ77UA		53.00	2.60	1.60	53.50	3.34	2.08	BT
UJKJA7		49.50	-0.90	-0.55	51.00	0.84	0.52	BT
UMRP2Y	X	53.70	3.30	2.04	67.55	17.39	10.81	BT
UV24T3		51.00	0.60	0.37	51.00	0.84	0.52	HH
VC2F24		51.70	1.30	0.80	51.10	0.94	0.58	BT



Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

Report #225

3rd Qtr 2025

WebCode	Data Flag	Sample C51-C52			Sample C53-C54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
VDVAPZ		51.00	0.60	0.37	50.30	0.14	0.09	BT
VFFBH2		46.70	-3.70	-2.28	47.25	-2.91	-1.81	BT
VGY693		49.50	-0.90	-0.55	49.50	-0.66	-0.41	BT
VKJWK6		50.00	-0.40	-0.24	50.00	-0.16	-0.10	HH
WBAPHB		51.00	0.60	0.37	51.00	0.84	0.52	HH
WLAHQ2		48.74	-1.66	-1.02	48.42	-1.74	-1.08	BT
WVDEQX		47.50	-2.90	-1.78	48.00	-2.16	-1.34	BT
WX3YF3		50.00	-0.40	-0.24	49.00	-1.16	-0.72	BT
XGCF2R		51.10	0.70	0.43	50.95	0.79	0.49	HH
XUWV6R		49.50	-0.90	-0.55	50.00	-0.16	-0.10	BT
Y9U8DV		53.00	2.60	1.60	52.80	2.64	1.64	BT
YAZYXW	*	54.50	4.10	2.53	53.00	2.84	1.77	HH
YR67CX		49.50	-0.90	-0.55	50.50	0.34	0.21	BT
YRLDJ2		49.30	-1.10	-0.67	48.70	-1.46	-0.91	BT
YY3XKR		50.00	-0.40	-0.24	50.50	0.34	0.21	HH
ZF6VGW		49.80	-0.60	-0.37	50.00	-0.16	-0.10	BT
ZQ7H9T		50.50	0.10	0.06	49.50	-0.66	-0.41	XX

Grand Means		Summary Statistics	
	50.395 Type A		50.160 Type A
Std Dev Btwn Labs	1.623 Type A		1.608 Type A
Statistics based on 90 of 92 reporting participants			

Samples C51-C52: Polyisoprene Compound & C53-C54: Polyisoprene Compound

Comments on Assigned Data Flags for Test #620

M38HP4 (X) - Data for sample group C51-C52 are low.

UMRP2Y (X) - Data for sample group C53-C54 are high.

Key to Instrument Codes Reported by Participants

BT Benchtop
HH Handheld
XX Specify Benchtop or Handheld Instrument



Rubber Interlaboratory Testing Program
Analysis 620
Hardness (Shore A/Type A)

Report #225
3rd Qtr 2025

Results by Reading Time (as reported by laboratory)

Reading Time	Sample C51-C52 <i>Polyisoprene Compound</i>			Sample C53-C54 <i>Polyisoprene Compound</i>			Labs Incl / Rpt	
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM		
Readings taken within 0 - 5 seconds	50.44	1.36	0.04	50.19	1.47	0.03	61	64
Readings taken at 5 seconds	49.39	1.25	-1.01	49.38	1.21	-0.78	8	9
Readings taken after 5+ seconds	48.92	1.84	-1.48	48.64	1.43	-1.52	6	7
Maximum hardness indicator used	51.19	1.15	0.80	50.92	1.30	0.76	11	12

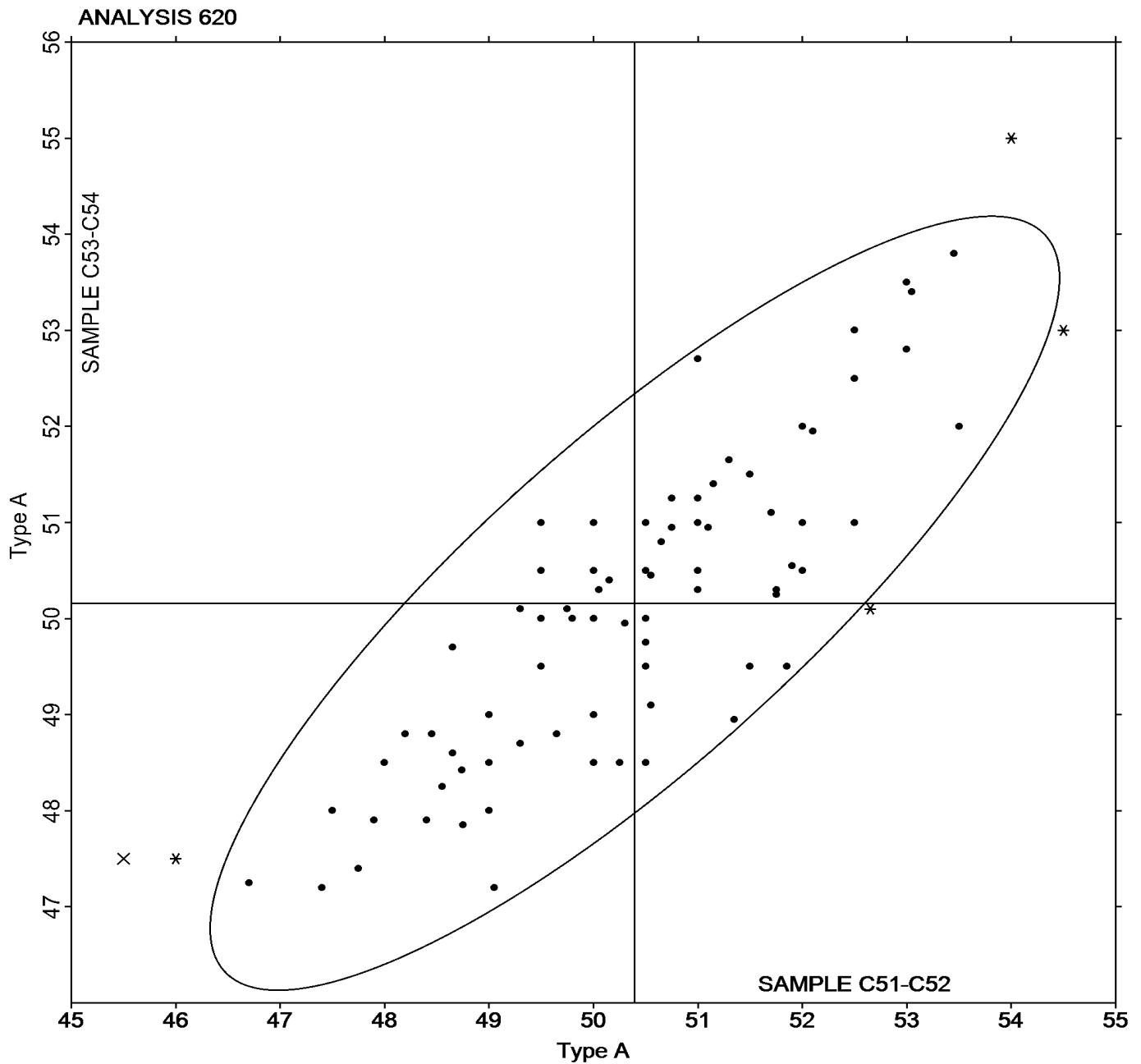


Rubber Interlaboratory Testing Program
Analysis 620
Hardness (Shore A/Type A)

Report #225
3rd Qtr 2025

Grand Mean Sample **C51-C52** = 50.395 Type A

Grand Mean Sample **C53-C54** = 50.160 Type A





Rubber Interlaboratory Testing Program

Analysis 621

Density

Report #225

3rd Qtr 2025

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23G76W		1.130	-0.003	-1.08	1.130	-0.003	-1.28
23YC6M		1.131	-0.002	-0.70	1.133	0.000	-0.09
2RW4EP		1.135	0.002	0.90	1.138	0.004	1.71
2U3JWT		1.131	-0.002	-0.70	1.134	0.000	0.11
2VXZ9Q		1.133	0.000	0.02	1.135	0.002	0.65
2X2VRT		1.134	0.001	0.32	1.133	-0.001	-0.21
2YWDUU		1.136	0.003	1.25	1.136	0.003	1.10
324VRQ		1.132	-0.001	-0.27	1.133	-0.001	-0.27
4MFHJM		1.134	0.001	0.45	1.134	0.000	0.13
6UBV3M		1.138	0.005	2.03	1.137	0.003	1.30
7FPFYN		1.133	0.000	-0.11	1.134	0.001	0.31
7JTD8V		1.134	0.001	0.47	1.135	0.002	0.71
7QQ3QK		1.134	0.001	0.32	1.133	0.000	0.05
88UYMP		1.135	0.002	0.86	1.136	0.002	0.90
8HBTRQ		1.128	-0.005	-1.82	1.128	-0.006	-2.21
8REYQY		1.137	0.004	1.64	1.137	0.004	1.50
9JK9KH		1.133	0.000	0.10	1.134	0.000	0.13
A2CPXQ		1.131	-0.002	-0.89	1.131	-0.002	-0.88
AYLGUG		1.133	0.000	0.12	1.133	0.000	-0.07
B8HHRL		1.130	-0.003	-1.08	1.130	-0.004	-1.47
BC94ME	*	1.127	-0.006	-2.35	1.131	-0.003	-1.02
CALL6U	*	1.130	-0.003	-1.14	1.127	-0.006	-2.31
CLE9BP		1.135	0.002	0.72	1.135	0.001	0.57
CRK26K		1.134	0.001	0.28	1.133	0.000	-0.09
EDVLEQ		1.137	0.004	1.64	1.135	0.002	0.71
ENUENG		1.138	0.005	1.83	1.137	0.003	1.30
F6CKNF	X	1.102	-0.031	-11.97	1.103	-0.030	-11.97
F6Y4DM		1.130	-0.003	-1.28	1.130	-0.004	-1.47
FBHDJB		1.132	-0.001	-0.42	1.132	-0.001	-0.48
FTHJUQ		1.133	0.000	-0.11	1.133	0.000	-0.09
FW442F		1.128	-0.005	-1.86	1.130	-0.004	-1.47
G36PHH		1.129	-0.003	-1.32	1.130	-0.004	-1.43
G6RGF7		1.133	0.001	0.22	1.133	0.000	-0.11
HJ9KBF		1.134	0.001	0.28	1.134	0.001	0.31
HXA6ZJ		1.137	0.004	1.44	1.139	0.006	2.29
J4B4NE		1.128	-0.004	-1.71	1.130	-0.003	-1.30
JVYUCE		1.134	0.001	0.47	1.131	-0.002	-0.88
JZAVJ4	X	1.126	-0.007	-2.64	1.124	-0.009	-3.69



Rubber Interlaboratory Testing Program

Analysis 621

Density

Report #225
3rd Qtr 2025

WebCode	Data Flag	Sample C51-C52			Sample C53-C54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
KG9GDA		1.130	-0.003	-1.08	1.132	-0.001	-0.48
KUXG6C		1.133	0.000	0.02	1.133	0.000	0.01
L9VUYE		1.131	-0.002	-0.66	1.130	-0.003	-1.26
LCZ9UK		1.132	-0.001	-0.31	1.134	0.000	0.11
LNTVZF		1.132	-0.001	-0.50	1.135	0.002	0.71
M38HP4	*	1.140	0.007	2.65	1.139	0.005	2.11
ML3X49		1.134	0.001	0.28	1.132	-0.002	-0.68
NTWDCD	X	1.135	0.002	0.74	1.140	0.007	2.71
P4PGTC		1.131	-0.002	-0.89	1.131	-0.003	-1.08
P7U493		1.135	0.002	0.86	1.134	0.001	0.31
PUMYHA		1.131	-0.002	-0.73	1.131	-0.002	-0.90
Q49J2D		1.134	0.001	0.47	1.135	0.002	0.71
RG7383		1.132	-0.001	-0.50	1.131	-0.003	-1.08
RQCVK4		1.135	0.002	0.84	1.134	0.001	0.45
U4AV3W		1.133	0.000	0.08	1.134	0.001	0.31
U89AM2		1.135	0.002	0.68	1.134	0.001	0.35
UJ77UA		1.131	-0.002	-0.89	1.131	-0.003	-1.08
UMRP2Y		1.136	0.003	1.25	1.137	0.003	1.30
UV24T3		1.134	0.001	0.53	1.137	0.004	1.58
VC2F24	X	1.140	0.007	2.80	1.135	0.002	0.71
VDVAPZ		1.130	-0.003	-1.28	1.134	0.000	0.11
VKJWK6		1.136	0.003	1.05	1.136	0.003	1.10
WBAPHB		1.135	0.002	0.84	1.135	0.002	0.82
WVDEQX	X	1.116	-0.017	-6.72	1.112	-0.021	-8.40
WX3YF3		1.130	-0.003	-1.03	1.130	-0.003	-1.18
XGCF2R		1.131	-0.002	-0.79	1.131	-0.002	-0.70
XGU8DX		1.133	0.000	-0.11	1.133	0.000	-0.09
XUWV6R		1.133	0.000	0.10	1.134	0.000	0.16
Y9U8DV		1.133	0.001	0.24	1.133	-0.001	-0.27
YAZYXW		1.132	-0.001	-0.31	1.132	-0.001	-0.48
YRLDJ2	*	1.132	-0.001	-0.29	1.137	0.003	1.32
YY3XKR		1.136	0.003	1.05	1.135	0.002	0.71
ZF6VGW		1.132	-0.001	-0.36	1.134	0.001	0.33
ZQ7H9T		1.134	0.001	0.28	1.134	0.000	0.11



Rubber Interlaboratory Testing Program
Analysis 621
Density

Report #225
3rd Qtr 2025

Grand Means		Summary Statistics	
	1.1328 g/cm ³ (Mg/m ³)		1.1332 g/cm ³ (Mg/m ³)
Std Dev Btwn Labs	0.0026 g/cm ³ (Mg/m ³)		0.0025 g/cm ³ (Mg/m ³)
Statistics based on 67 of 72 reporting participants			

Samples C51-C52: Polyisoprene Compound & C53-C54: Polyisoprene Compound

Comments on Assigned Data Flags for Test #621

F6CKNF (X) - Data for all Samples are low.

JZAVJ4 (X) - Data for sample group C53-C54 are low.

NTWDCD (X) - Inconsistent in testing between samples.

VC2F24 (X) - Data for sample group C51-C52 are high. Inconsistent within the determinations of sample group C53-C54.

WVDEQX (X) - Data for all samples are low. Possible Systematic Error.



Rubber Interlaboratory Testing Program

Analysis 621

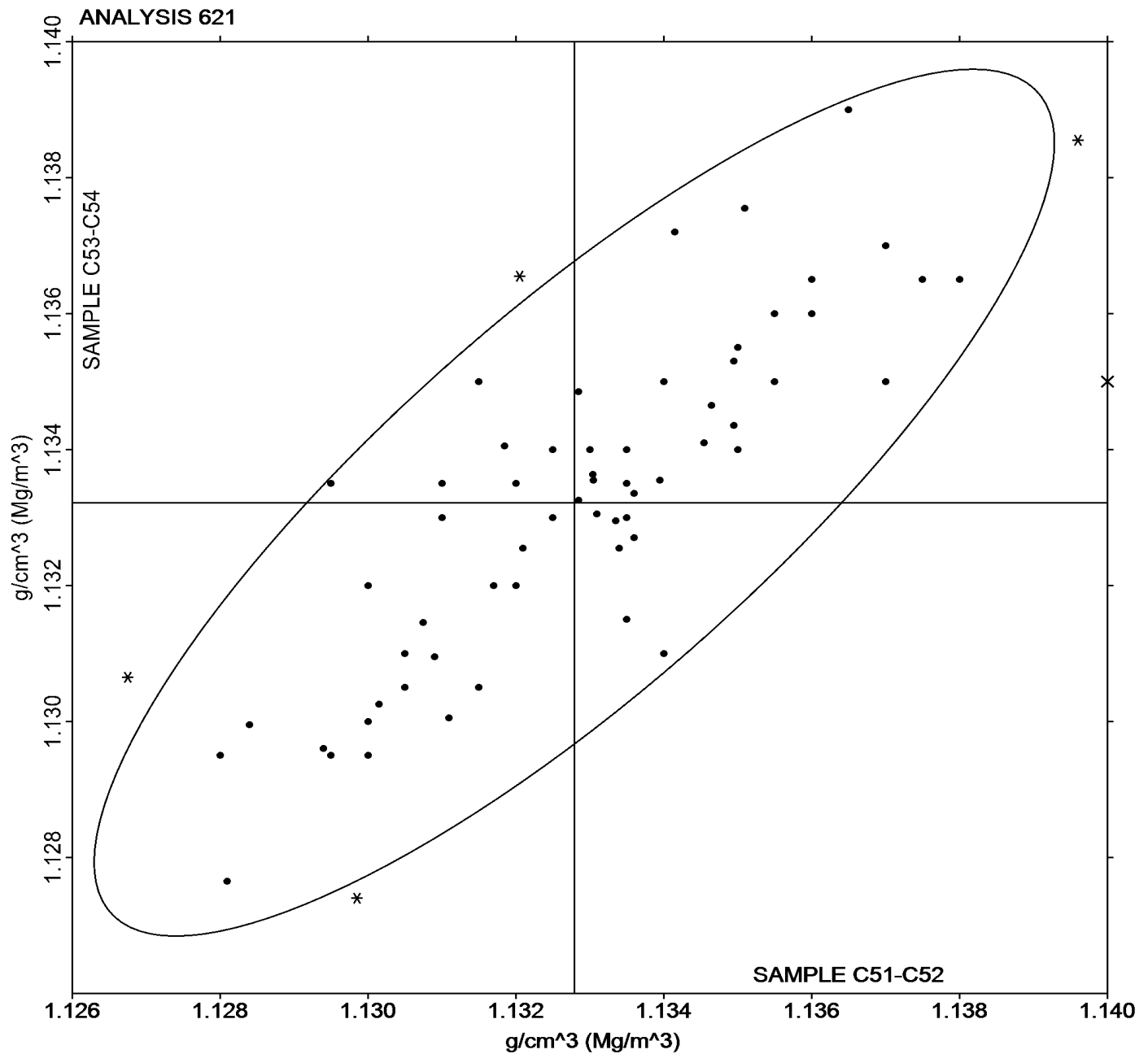
Density

Report #225

3rd Qtr 2025

Grand Mean Sample **C51-C52** = 1.1328 g/cm³
(Mg/m³)

Grand Mean Sample **C53-C54** = 1.1332 g/cm³
(Mg/m³)





Rubber Interlaboratory Testing Program

Analysis 625

Hardness (Shore D/Type D)

Report #225

3rd Qtr 2025

WebCode	Data Flag	Sample HC51-HC52			Sample HC53-HC54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2YWDUU		52.70	-1.18	-0.41	67.50	-0.26	-0.12	BT
4MFHJM		58.70	4.82	1.67	71.35	3.59	1.73	BT
4WHQ9L		51.35	-2.53	-0.88	65.85	-1.91	-0.92	BT
6UAXRR		57.25	3.37	1.17	69.15	1.39	0.67	BT
6UBV3M		53.05	-0.83	-0.29	67.55	-0.21	-0.10	BT
7QQ3QK		52.35	-1.53	-0.53	66.40	-1.36	-0.65	BT
7ZRMQR		52.25	-1.63	-0.57	67.00	-0.76	-0.36	BT
8FN6FQ		53.50	-0.38	-0.13	68.00	0.24	0.12	BT
8QJFNX		56.75	2.87	0.99	69.25	1.49	0.72	HH
9DUXBJ		51.20	-2.68	-0.93	65.05	-2.71	-1.30	BT
BD4MPF		51.15	-2.73	-0.95	66.35	-1.41	-0.68	BT
CLE9BP		51.05	-2.83	-0.98	65.70	-2.06	-0.99	HH
F42VAA		50.00	-3.88	-1.35	65.50	-2.26	-1.08	HH
F6VLFN		52.00	-1.88	-0.65	67.00	-0.76	-0.36	BT
HJ9KBF		51.00	-2.88	-1.00	67.00	-0.76	-0.36	BT
LNTVZF	X	94.15	40.27	13.97	93.40	25.64	12.34	BT
MM9F26	X	48.50	-5.38	-1.87	68.00	0.24	0.12	BT
P8QKKY		58.00	4.12	1.43	71.00	3.24	1.56	BT
P98GDY		56.00	2.12	0.73	70.00	2.24	1.08	BT
PZAZB8		51.55	-2.33	-0.81	67.65	-0.11	-0.05	XX
Q49J2D		54.00	0.12	0.04	67.00	-0.76	-0.36	BT
QCVPP4		52.35	-1.53	-0.53	66.50	-1.26	-0.60	BT
UJ77UA		53.50	-0.38	-0.13	67.50	-0.26	-0.12	BT
UMRP2Y	X	13.00	-40.88	-14.18	12.50	-55.26	-26.58	BT
VFFBH2		48.85	-5.03	-1.75	63.20	-4.56	-2.19	BT
WHPQEY		53.45	-0.43	-0.15	66.70	-1.06	-0.51	BT
WVDEQX		57.50	3.62	1.25	71.00	3.24	1.56	HH
X84L8Y		57.10	3.22	1.12	69.80	2.04	0.98	HH
XUV4A6		54.50	0.62	0.21	68.00	0.24	0.12	BT
YCW6NN		59.00	5.12	1.77	71.00	3.24	1.56	HH
YDQWU3		58.55	4.67	1.62	70.90	3.14	1.51	BT
YR67CX		54.00	0.12	0.04	66.00	-1.76	-0.84	XX



Rubber Interlaboratory Testing Program
Analysis 625
Hardness (Shore D/Type D)

Report #225
3rd Qtr 2025

Grand Means		Summary Statistics	
	53.884 Type D		67.755 Type D
Std Dev Btwn Labs	2.883 Type D		2.079 Type D
Statistics based on 29 of 32 reporting participants			

Samples HC51-HC52: Hardness Disc & HC53-HC54: Hardness Disc

Comments on Assigned Data Flags for Test #625

LNTVZF (X) - Extreme Data.

MM9F26 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both sample groups.

UMRP2Y (X) - Extreme Data.

Key to Instrument Codes Reported by Participants

BT Benchtop
XX Specify Benchtop or Handheld Instrument
HH Handheld

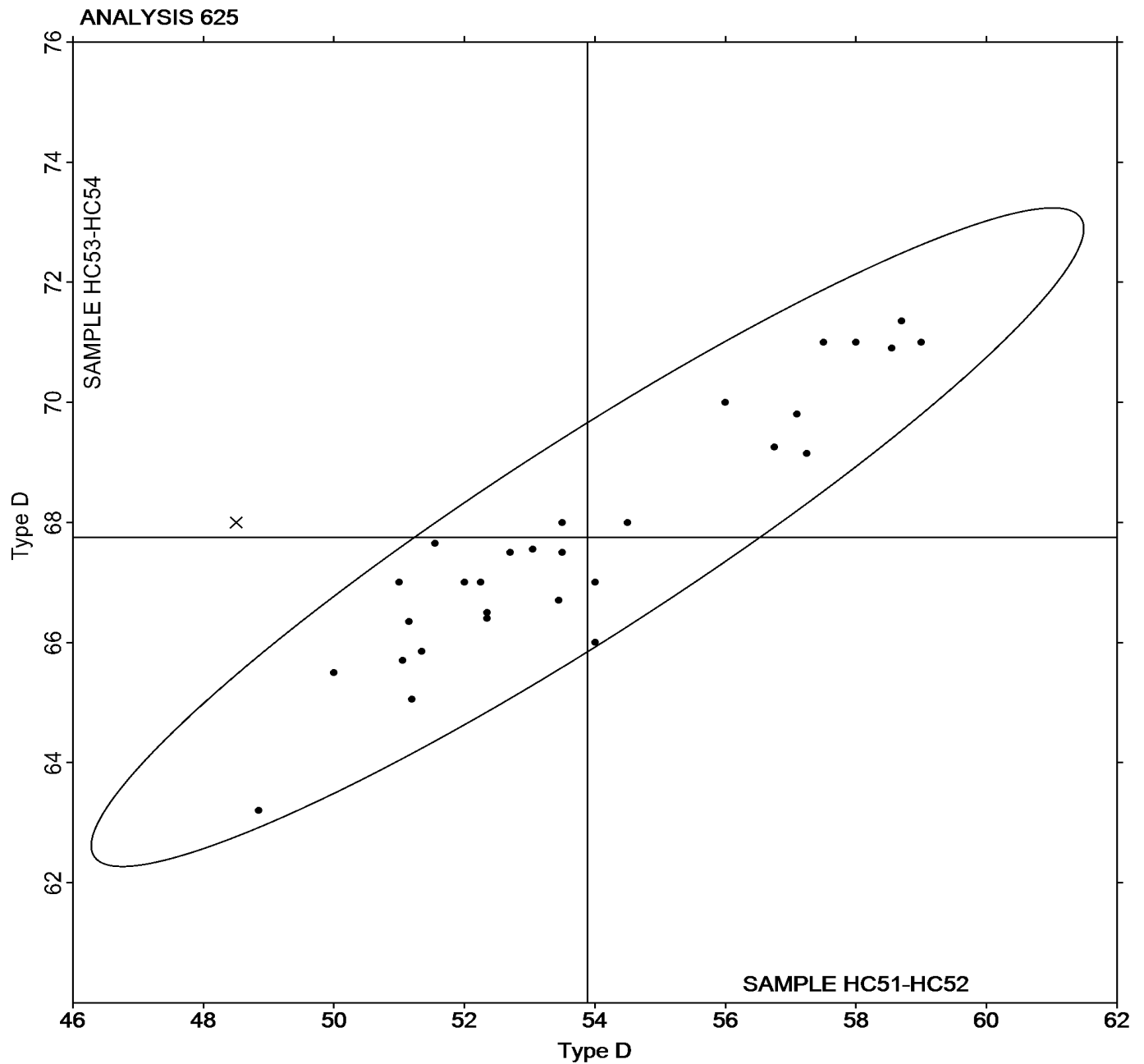


Rubber Interlaboratory Testing Program
Analysis 625
Hardness (Shore D/Type D)

Report #225
3rd Qtr 2025

Grand Mean Sample **HC51-HC52** = 53.884 Type D

Grand Mean Sample **HC53-HC54** = 67.755 Type D





Rubber Interlaboratory Testing Program

Analysis 630

Report #225

3rd Qtr 2025

Tensile Strength: Precured vs. Lab-Cured Samples (psi)

WebCode	Data Flag	Sample C51-C52			Sample L51-L52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23G76W		3,274.5	-90.1	-0.45	2,791.5	-77.5	-0.30
2YWDUU		3,118.3	-246.2	-1.23	2,987.8	118.8	0.45
324VRQ		3,500.9	136.3	0.68	2,595.5	-273.5	-1.05
4MFHJM		2,997.2	-367.4	-1.84	2,673.1	-195.9	-0.75
6UBV3M		3,317.0	-47.6	-0.24	3,124.8	255.8	0.98
7FPFYN		3,386.0	21.4	0.11	3,142.0	273.0	1.04
7PHQ9J		3,419.0	54.4	0.27	2,983.0	114.0	0.44
AL4MNH	M	No data reported for this sample			3,047.4	178.4	0.68
BC94ME		3,592.1	227.5	1.14	3,315.6	446.6	1.71
EDVLEQ		3,278.0	-86.6	-0.43	2,965.0	96.0	0.37
LCZ9UK		3,731.7	367.1	1.84	2,645.1	-224.0	-0.86
LKVCZ3		3,244.0	-120.6	-0.60	2,607.5	-261.5	-1.00
LNTVZF		3,193.5	-171.1	-0.86	3,081.5	212.5	0.81
M38HP4		3,438.9	74.3	0.37	2,589.9	-279.2	-1.07
NTWDCD		3,802.2	437.6	2.19	3,220.6	351.6	1.34
VKJWK6		3,435.0	70.4	0.35	2,890.0	21.0	0.08
WVDEQX		3,465.5	100.9	0.51	2,882.5	13.5	0.05
XGCF2R		3,196.5	-168.1	-0.84	2,855.0	-14.0	-0.05
XUWV6R		3,309.1	-55.5	-0.28	2,318.4	-550.6	-2.10
Y9U8DV		3,529.8	165.2	0.83	3,030.3	161.3	0.62
YRLDJ2		3,132.5	-232.1	-1.16	3,058.5	189.5	0.72
YY3XKR		3,294.6	-70.0	-0.35	2,491.8	-377.2	-1.44

Grand Means

3,364.59 psi

2,869.02 psi

Std Dev Btwn Labs

199.42 psi

261.57 psi

Statistics based on 21 of 22 reporting participants

Summary Statistics

Grand Means

23.198 MPa

19.780 MPa

Std Dev Btwn Labs

1.375 MPa

1.800 MPa

Statistics based on 21 of 22 reporting participants

Summary Statistics in SI Units

Samples C51-C52: Polyisoprene Compound & L51-L52: Polyisoprene Compound



Rubber Interlaboratory Testing Program

Analysis 630

Report #225

3rd Qtr 2025

Tensile Strength: Precured vs. Lab-Cured Samples (psi)

Comments on Assigned Data Flags for Test #630

AL4MNH (M) - Participant did not submit data for sample group C51-C52.



Rubber Interlaboratory Testing Program

Analysis 630

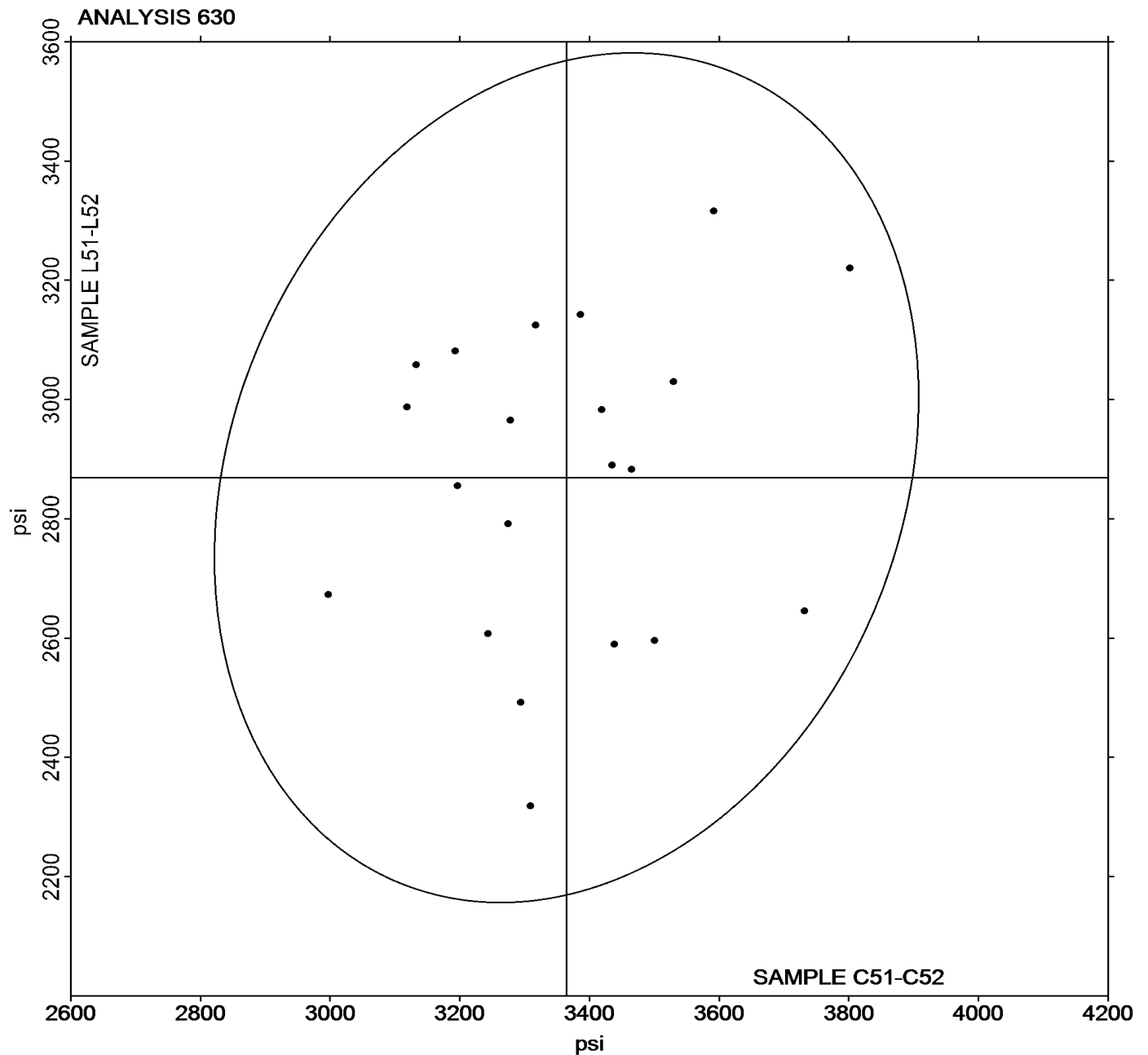
Report #225

3rd Qtr 2025

Tensile Strength: Precured vs. Lab-Cured Samples (psi)

Grand Mean Sample **C51-C52** = 3,364.59 psi

Grand Mean Sample **L51-L52** = 2,869.02 psi





Rubber Interlaboratory Testing Program

Analysis 631

Report #225

3rd Qtr 2025

Ultimate Elongation: Precured vs. Lab-Cured Samples (percent)

WebCode	Data Flag	Sample C51-C52			Sample L51-L52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23G76W		542.5	-39.3	-1.23	526.5	-22.2	-0.73
2YWDUU		566.2	-15.6	-0.49	553.7	5.0	0.16
324VRQ	*	639.5	57.7	1.80	536.0	-12.7	-0.42
4MFHJM		534.1	-47.7	-1.49	521.0	-27.7	-0.91
6UBV3M		600.0	18.2	0.57	576.5	27.8	0.92
7FPFYN	X	321.5	-260.3	-8.11	298.5	-250.2	-8.25
7PHQ9J		573.5	-8.3	-0.26	539.5	-9.2	-0.30
AL4MNH	M	No data reported for this sample			598.0	49.3	1.63
BC94ME		605.2	23.4	0.73	580.6	31.9	1.05
EDVLEQ		593.5	11.7	0.36	568.5	19.8	0.65
LCZ9UK		609.8	27.9	0.87	553.2	4.5	0.15
LKVCZ3		536.5	-45.3	-1.41	488.5	-60.2	-1.99
LNTVZF		560.0	-21.8	-0.68	566.5	17.8	0.59
M38HP4		605.7	23.8	0.74	558.4	9.7	0.32
NTWDCD		617.4	35.5	1.11	568.7	20.0	0.66
VKJWK6		600.0	18.2	0.57	563.0	14.3	0.47
WVDEQX		555.0	-26.8	-0.84	506.0	-42.7	-1.41
XGCF2R		585.5	3.7	0.11	566.0	17.3	0.57
XUWV6R		548.5	-33.3	-1.04	505.0	-43.7	-1.44
Y9U8DV		637.1	55.3	1.72	603.6	54.9	1.81
YRLDJ2		566.0	-15.8	-0.49	578.5	29.8	0.98
YY3XKR		560.5	-21.3	-0.66	514.5	-34.2	-1.13

Grand Means		Summary Statistics	
	581.82 percent		548.71 percent
Std Dev Btwn Labs	32.08 percent		30.33 percent
Statistics based on 20 of 22 reporting participants			

Samples C51-C52: Polyisoprene Compound & L51-L52: Polyisoprene Compound

Comments on Assigned Data Flags for Test #631

7FPFYN (X) - Data for all samples are low. Inconsistent within the determinations of sample group C51-C52.

AL4MNH (M) - Participant did not submit data for sample group C51-C52.



Rubber Interlaboratory Testing Program

Analysis 631

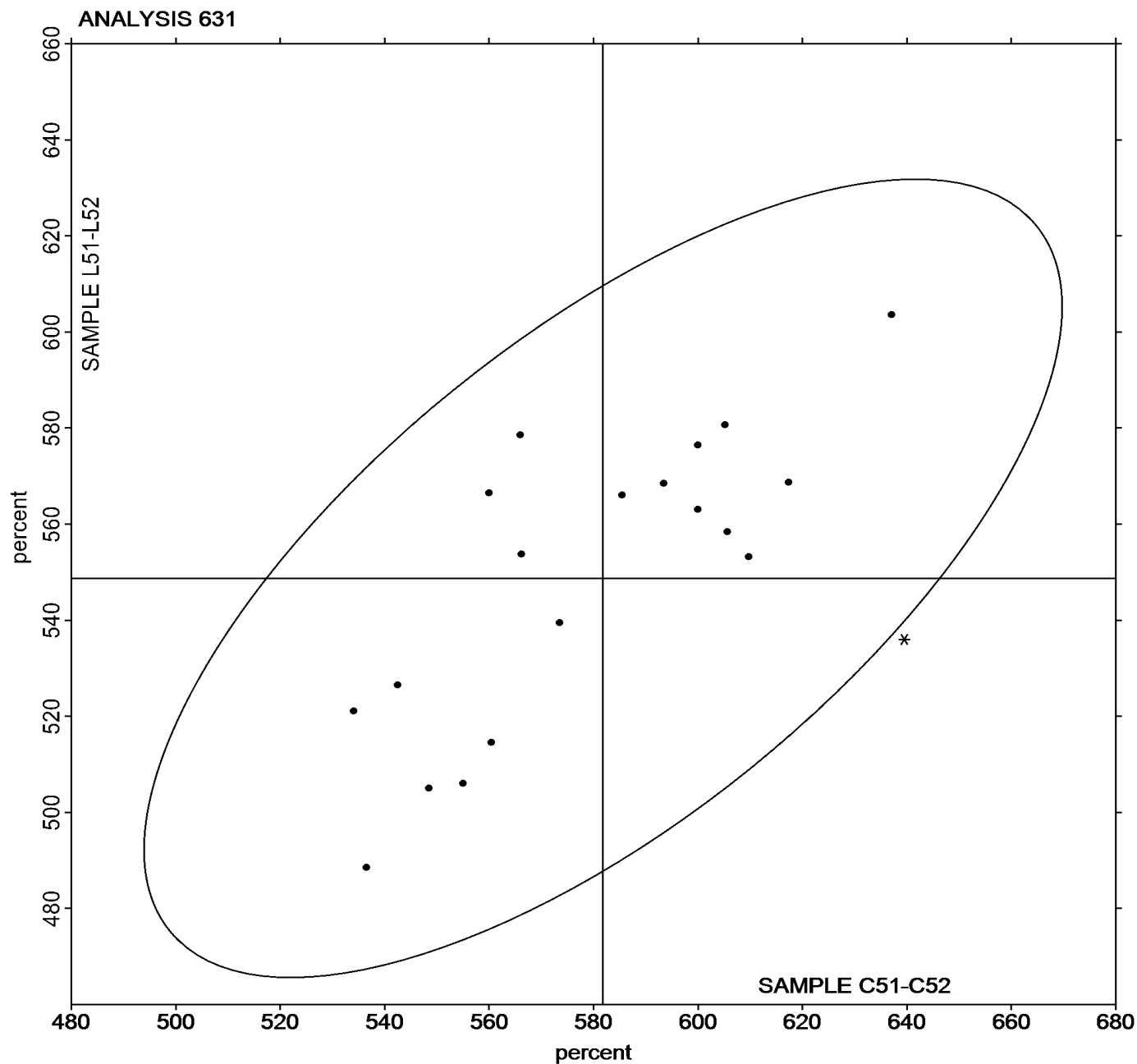
Report #225

3rd Qtr 2025

Ultimate Elongation: Precured vs. Lab-Cured Samples (percent)

Grand Mean Sample **C51-C52** = 581.82 percent

Grand Mean Sample **L51-L52** = 548.71 percent





Rubber Interlaboratory Testing Program

Analysis 632

Report #225

3rd Qtr 2025

Stress at 300% Elongation: Precured vs. Lab-Cured Samples (psi)

WebCode	Data Flag	Sample C51-C52			Sample L51-L52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23G76W		1,223.5	31.5	0.35	1,111.0	14.4	0.13
2YWDUU		1,203.1	11.1	0.12	1,161.0	64.5	0.59
324VRQ		1,073.9	-118.2	-1.31	1,018.5	-78.1	-0.72
4MFHJM		1,171.9	-20.1	-0.22	1,030.5	-66.1	-0.61
6UBV3M		1,116.6	-75.5	-0.83	1,161.8	65.2	0.60
7FPFYN		1,340.5	148.5	1.64	1,276.0	179.4	1.65
7PHQ9J		1,271.0	79.0	0.87	1,190.0	93.4	0.86
AL4MNH	M	No data reported for this sample			1,031.6	-65.0	-0.60
BC94ME		1,159.2	-32.8	-0.36	1,152.2	55.6	0.51
EDVLEQ		1,083.5	-108.5	-1.20	1,092.5	-4.1	-0.04
LCZ9UK		1,188.1	-3.9	-0.04	930.4	-166.2	-1.53
LKVCZ3		1,369.0	177.0	1.96	1,304.5	207.9	1.92
LNTVZF		1,215.0	23.0	0.25	1,108.0	11.4	0.11
M38HP4		1,105.9	-86.1	-0.95	909.6	-187.0	-1.72
NTWDCD		1,257.5	65.5	0.72	1,196.6	100.0	0.92
VKJWK6		1,169.0	-23.0	-0.25	1,117.5	20.9	0.19
WVDEQX		1,258.0	66.0	0.73	1,208.0	111.4	1.03
XGCF2R		1,059.5	-132.5	-1.47	1,067.0	-29.6	-0.27
XUWV6R		1,324.2	132.2	1.46	973.2	-123.4	-1.14
Y9U8DV		1,085.0	-107.0	-1.18	987.9	-108.7	-1.00
YRLDJ2		1,125.0	-67.0	-0.74	1,050.0	-46.6	-0.43
YY3XKR		1,232.8	40.8	0.45	981.9	-114.7	-1.06

Grand Means

1,192.01 psi

1,096.57 psi

Std Dev Btwn Labs

90.39 psi

108.42 psi

Statistics based on 21 of 22 reporting participants

Summary Statistics

Grand Means

8.2185 MPa

7.5600 MPa

Std Dev Btwn Labs

0.6232 MPa

0.7500 MPa

Statistics based on 21 of 22 reporting participants

Summary Statistics in SI Units

Samples C51-C52: Polyisoprene Compound & L51-L52: Polyisoprene Compound



Rubber Interlaboratory Testing Program

Report #225

Analysis 632

3rd Qtr 2025

Stress at 300% Elongation: Precured vs. Lab-Cured Samples (psi)

Comments on Assigned Data Flags for Test #632

AL4MNH (M) - Participant did not submit data for sample group C51-C52.



Rubber Interlaboratory Testing Program

Analysis 632

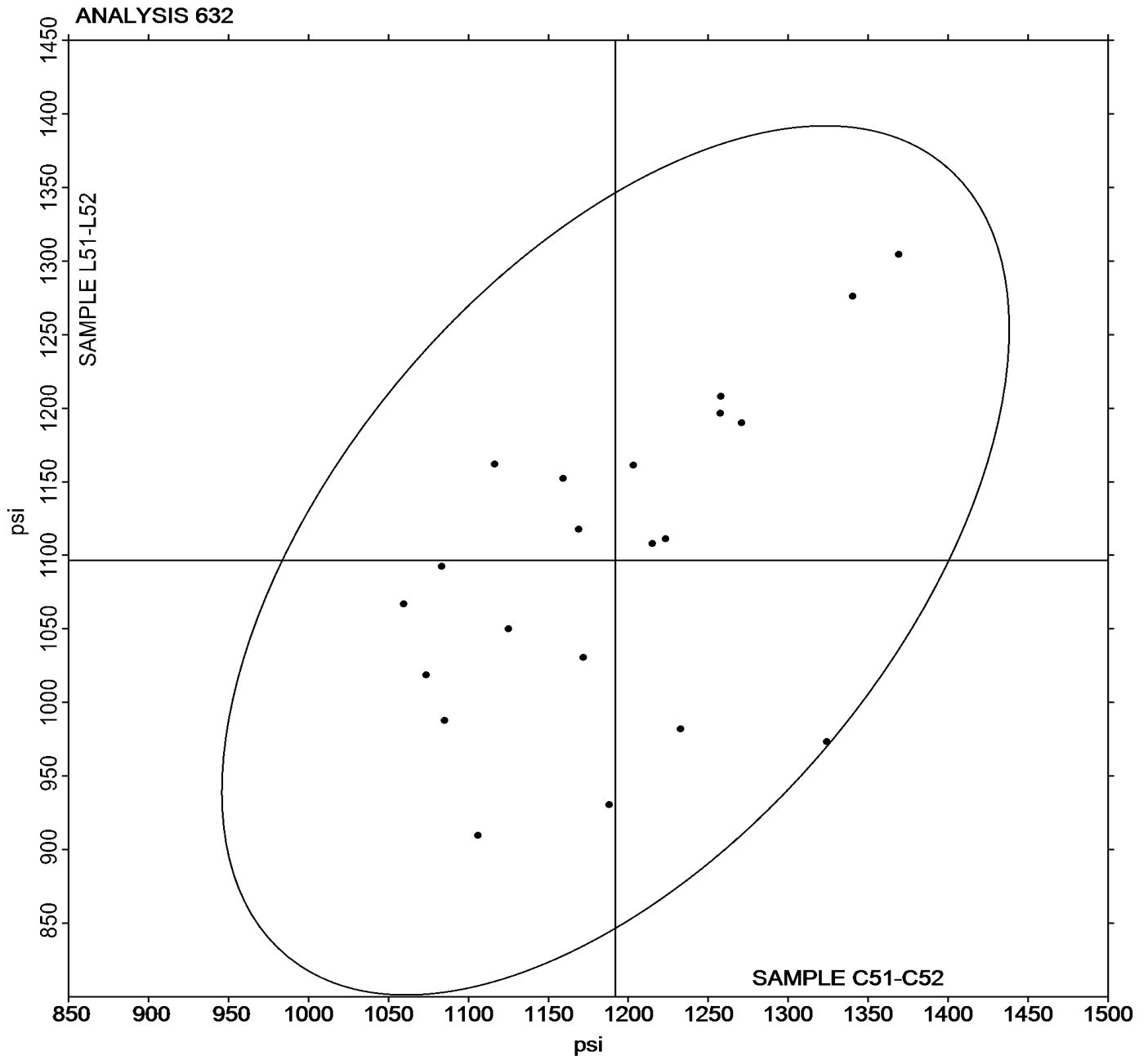
Report #225

3rd Qtr 2025

Stress at 300% Elongation: Precured vs. Lab-Cured Samples (psi)

Grand Mean Sample **C51-C52** = 1,192.01 psi

Grand Mean Sample **L51-L52** = 1,096.57 psi





Rubber Interlaboratory Testing Program

Analysis 633

Report #225

3rd Qtr 2025

Stress at 100% Elongation: Precured vs. Lab-Cured Samples (psi)

WebCode	Data Flag	Sample C51-C52			Sample L51-L52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23G76W		225.0	-2.4	-0.15	216.5	-2.8	-0.15
2YWDUU		220.5	-6.9	-0.45	229.9	10.6	0.57
324VRQ		225.4	-2.0	-0.13	209.0	-10.3	-0.55
4MFHJM		213.2	-14.2	-0.92	206.0	-13.3	-0.71
6UBV3M		209.5	-17.9	-1.17	230.0	10.7	0.58
7FPFYN		237.0	9.6	0.63	242.0	22.7	1.22
7PHQ9J		238.0	10.6	0.69	234.0	14.7	0.79
AL4MNH	M	No data reported for this sample			214.7	-4.6	-0.25
BC94ME		215.9	-11.5	-0.75	237.8	18.5	0.99
EDVLEQ		209.5	-17.9	-1.17	210.0	-9.3	-0.50
LCZ9UK		230.1	2.7	0.18	189.0	-30.3	-1.62
LKVCZ3	*	269.5	42.1	2.75	259.0	39.7	2.13
LNTVZF		226.0	-1.4	-0.09	226.0	6.7	0.36
M38HP4		211.6	-15.8	-1.03	193.1	-26.2	-1.40
NTWDCD		238.1	10.7	0.70	238.0	18.7	1.00
VKJWK6		231.0	3.6	0.24	227.5	8.2	0.44
WVDEQX		222.5	-4.9	-0.32	224.0	4.7	0.25
XGCF2R		221.0	-6.4	-0.41	216.0	-3.3	-0.17
XUWV6R	*	259.6	32.3	2.11	187.8	-31.4	-1.68
Y9U8DV		224.8	-2.6	-0.17	220.4	1.2	0.06
YRLDJ2		214.5	-12.9	-0.84	213.5	-5.8	-0.31
YY3XKR		232.1	4.7	0.31	195.1	-24.2	-1.30

Grand Means

227.36 psi

219.26 psi

Std Dev Btwn Labs

15.32 psi

18.66 psi

Statistics based on 21 of 22 reporting participants

Summary Statistics

Grand Means

1.5676 MPa

1.5100 MPa

Std Dev Btwn Labs

0.1057 MPa

0.1300 MPa

Statistics based on 21 of 22 reporting participants

Summary Statistics in SI Units

Samples C51-C52: Polyisoprene Compound & L51-L52: Polyisoprene Compound



Rubber Interlaboratory Testing Program

Report #225

Analysis 633

3rd Qtr 2025

Stress at 100% Elongation: Precured vs. Lab-Cured Samples (psi)

Comments on Assigned Data Flags for Test #633

AL4MNH (M) - Participant did not submit data for sample group C51-C52.



Rubber Interlaboratory Testing Program

Analysis 633

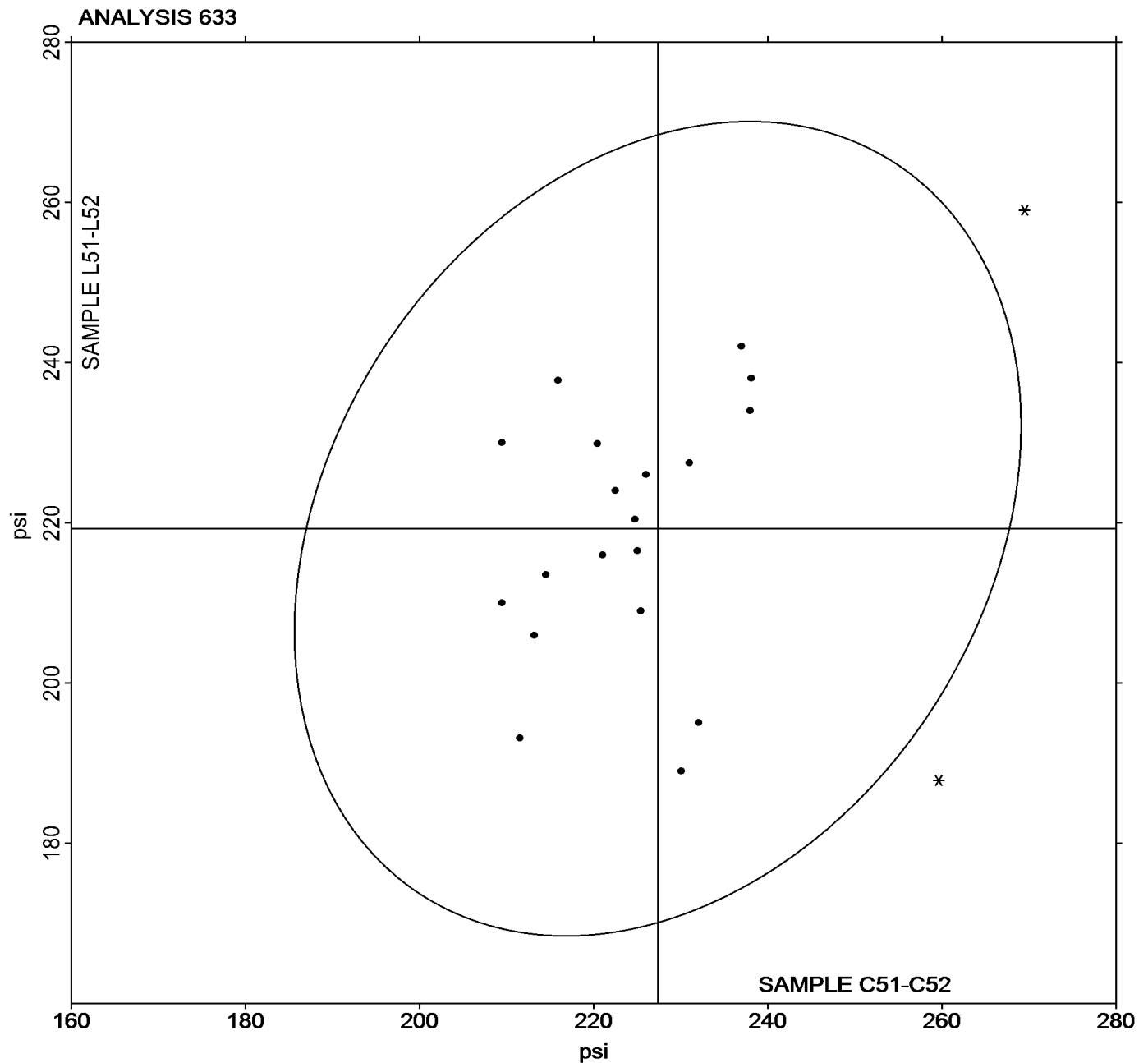
Report #225

3rd Qtr 2025

Stress at 100% Elongation: Precured vs. Lab-Cured Samples (psi)

Grand Mean Sample **C51-C52** = 227.36 psi

Grand Mean Sample **L51-L52** = 219.26 psi





Rubber Interlaboratory Testing Program

Analysis 635

Compression Set Method B

Report #225

3rd Qtr 2025

WebCode	Data Flag	Sample P51			Sample P52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23G76W		28.00	-1.13	-0.24	27.67	-1.28	-0.27
2U3JWT		26.00	-3.13	-0.67	24.67	-4.28	-0.89
2YGUAUW		24.80	-4.33	-0.92	25.08	-3.87	-0.81
324VRQ		32.47	3.34	0.71	30.27	1.32	0.28
3XHCKZ		30.00	0.87	0.19	33.67	4.72	0.99
4MFHJM		28.33	-0.80	-0.17	28.67	-0.28	-0.06
6UBV3M		26.37	-2.76	-0.59	26.75	-2.19	-0.46
7FPFYN		23.20	-5.93	-1.27	25.00	-3.94	-0.82
7QQ3QK	*	42.28	13.16	2.81	44.26	15.31	3.20
88UYMP		28.93	-0.20	-0.04	28.77	-0.18	-0.04
9DUXBJ		32.68	3.55	0.76	30.44	1.50	0.31
AYLGUG		24.12	-5.01	-1.07	21.58	-7.36	-1.54
CALL6U		28.33	-0.80	-0.17	28.67	-0.28	-0.06
EDVLEQ		29.67	0.54	0.11	27.67	-1.28	-0.27
ENUENG		27.67	-1.46	-0.31	24.23	-4.71	-0.99
FTHJUQ		24.63	-4.50	-0.96	24.68	-4.26	-0.89
FW442F		23.00	-6.13	-1.31	22.67	-6.28	-1.31
FXYL3G		27.17	-1.96	-0.42	29.97	1.02	0.21
G36PHH		39.67	10.54	2.25	37.67	8.72	1.83
G6RGF7		26.49	-2.64	-0.56	27.53	-1.41	-0.30
GQBLZA		30.85	1.72	0.37	32.56	3.62	0.76
HJ9KBF	X	8.89	-20.24	-4.32	6.51	-22.43	-4.69
J4B4NE		21.61	-7.52	-1.61	22.62	-6.32	-1.32
JZAVJ4		28.00	-1.13	-0.24	30.33	1.39	0.29
KUXG6C		31.00	1.87	0.40	29.67	0.72	0.15
KWTVZH		34.67	5.54	1.18	37.00	8.06	1.69
L9VUYE	*	24.60	-4.53	-0.97	30.57	1.63	0.34
LCZ9UK		33.84	4.71	1.00	29.99	1.04	0.22
LKVCZ3		31.43	2.30	0.49	28.87	-0.08	-0.02
LNTVZF		22.09	-7.04	-1.50	21.46	-7.49	-1.57
P49C88		24.93	-4.20	-0.90	26.93	-2.01	-0.42
Q49J2D		35.00	5.87	1.25	32.00	3.06	0.64
QCVPP4		31.00	1.87	0.40	29.67	0.72	0.15
RG7383		26.93	-2.20	-0.47	28.53	-0.41	-0.09
VKJWK6		33.00	3.87	0.83	33.00	4.06	0.85
WVDEQX		30.59	1.46	0.31	32.31	3.37	0.70
WX3YF3		29.67	0.54	0.11	28.67	-0.28	-0.06
XGCF2R		35.52	6.39	1.36	35.18	6.23	1.30



Rubber Interlaboratory Testing Program
Analysis 635
Compression Set Method B

Report #225
3rd Qtr 2025

WebCode	Data Flag	Sample P51			Sample P52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
XUWV6R		36.67	7.54	1.61	34.67	5.72	1.20
Y9U8DV		27.73	-1.40	-0.30	27.73	-1.21	-0.25
YAZYXW	X	2.00	-27.13	-5.79	1.60	-27.34	-5.72
YY3XKR		24.00	-5.13	-1.09	21.00	-7.94	-1.66
ZQ7H9T		27.33	-1.80	-0.38	24.00	-4.94	-1.03

Grand Means		Summary Statistics	
	29.129 % Compression		28.942 % Compression
Std Dev Btwn Labs	4.686 % Compression		4.779 % Compression
		Statistics based on 41 of 43 reporting participants	

Samples P51: EPDM Compound & P52: EPDM Compound

Comments on Assigned Data Flags for Test #635

HJ9KBF (X) - Data for all samples are low.

YAZYXW (X) - Extreme data.

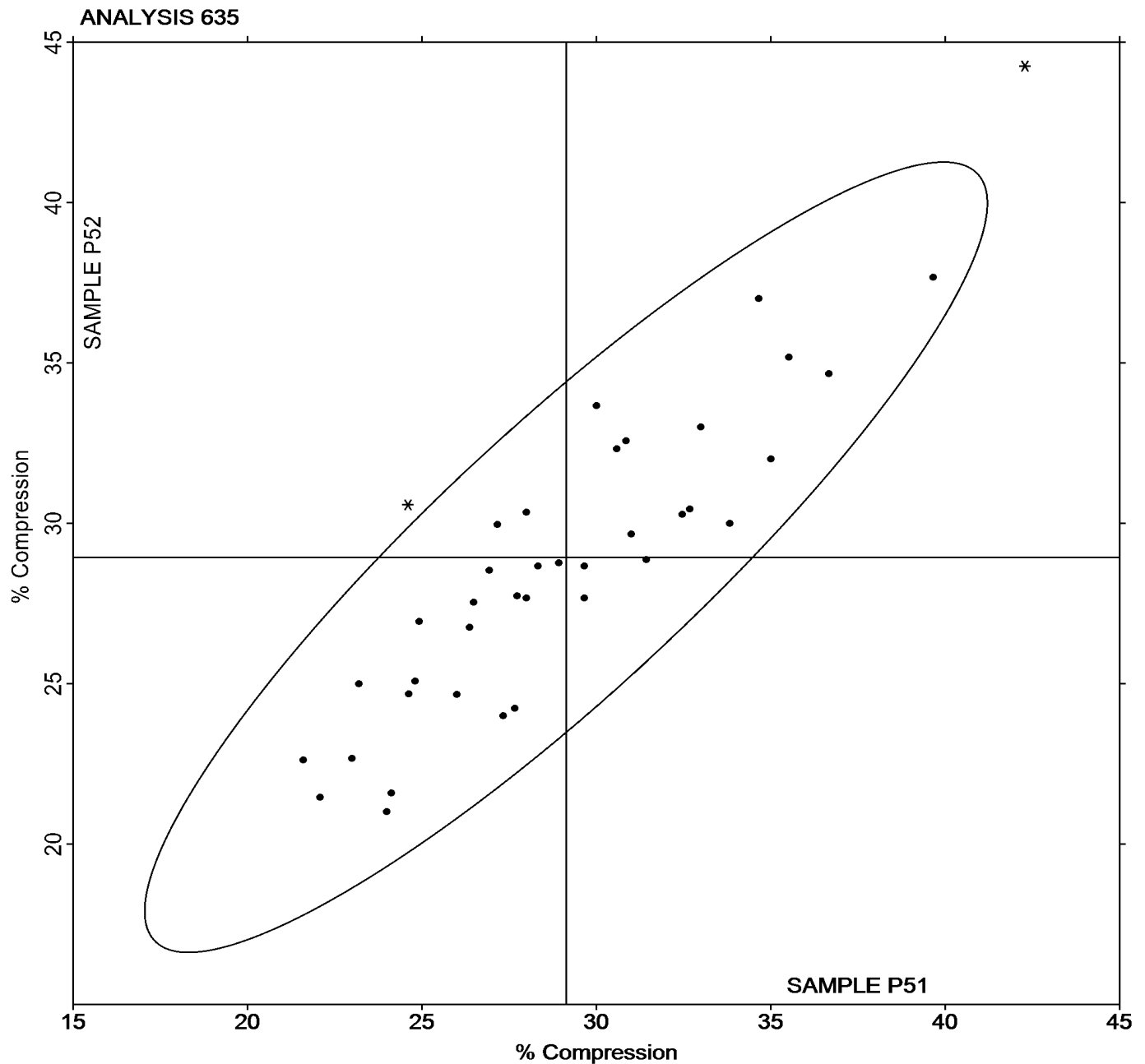


Rubber Interlaboratory Testing Program
Analysis 635
Compression Set Method B

Report #225
3rd Qtr 2025

Grand Mean Sample **P51** = 29.129 % Compression

Grand Mean Sample **P52** = 28.942 % Compression





Rubber Interlaboratory Testing Program

Analysis 640

Report #225

3rd Qtr 2025

O-Ring Tensile Strength at Break (psi)

WebCode	Data Flag	Sample RC51			Sample RC52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2U3JWT		2,421.2	20.2	0.17	2,455.0	54.6	0.44
324VRQ		2,477.8	76.8	0.64	2,454.6	54.2	0.44
3XHCKZ		2,553.8	152.8	1.28	2,484.8	84.4	0.68
4MFHJM		2,513.5	112.5	0.94	2,478.1	77.8	0.63
6UBV3M		2,496.0	95.0	0.80	2,501.8	101.4	0.82
7FPFYN		2,357.8	-43.2	-0.36	2,352.8	-47.6	-0.39
8REYQY		2,482.2	81.2	0.68	2,496.4	96.1	0.78
AL4MNH		2,404.1	3.1	0.03	2,447.4	47.0	0.38
CLE9BP		2,478.4	77.4	0.65	2,407.0	6.6	0.05
G7K8LK	*	2,092.6	-308.4	-2.59	1,993.6	-406.8	-3.30
G7MYH8		2,213.0	-188.0	-1.58	2,252.7	-147.6	-1.20
HJ9KBF		2,203.7	-197.3	-1.65	2,241.1	-159.2	-1.29
HXA6ZJ		2,348.9	-52.1	-0.44	2,375.8	-24.5	-0.20
LCZ9UK		2,410.8	9.8	0.08	2,486.6	86.3	0.70
Q6JLMC		2,551.2	150.2	1.26	2,534.4	134.1	1.09
RP7DM9		2,422.0	21.0	0.18	2,444.4	44.0	0.36
U89AM2		2,475.6	74.6	0.63	2,374.8	-25.6	-0.21
XGCF2R		2,377.0	-24.0	-0.20	2,416.0	15.6	0.13
XGU8DX		2,393.6	-7.4	-0.06	2,451.4	51.0	0.41
ZF6VGW		2,347.0	-54.0	-0.45	2,358.2	-42.2	-0.34

Grand Means

2,401.02 psi

Std Dev Btwn Labs

119.23 psi

Summary Statistics

2,400.35 psi

123.32 psi

Statistics based on 20 of 20 reporting participants

Samples RC51: Nitrile O-Ring & RC52: Nitrile O-Ring

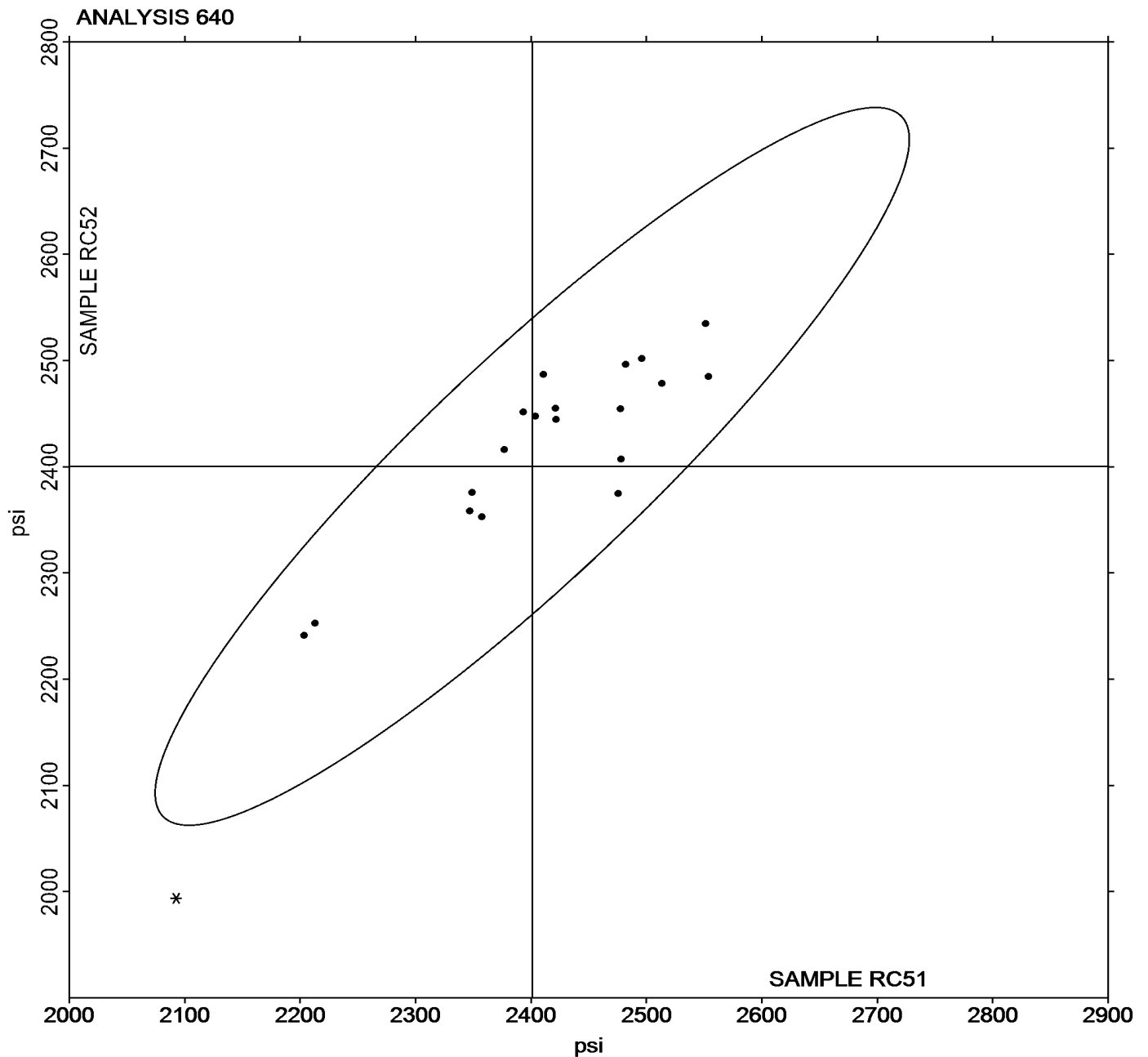


Rubber Interlaboratory Testing Program
Analysis 640
O-Ring Tensile Strength at Break (psi)

Report #225
3rd Qtr 2025

Grand Mean Sample **RC51** = 2,401.02 psi

Grand Mean Sample **RC52** = 2,400.35 psi





Rubber Interlaboratory Testing Program

Analysis 641

Report #225

3rd Qtr 2025

O-Ring Ultimate Elongation (%)

WebCode	Data Flag	Sample RC51			Sample RC52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2U3JWT		438.8	21.8	0.56	443.4	24.5	0.56
324VRQ		455.8	38.8	1.00	450.2	31.3	0.72
3XHCKZ		333.0	-84.0	-2.16	333.8	-85.1	-1.95
4MFHJM		450.9	33.9	0.87	445.3	26.4	0.61
6UBV3M		457.0	40.0	1.03	458.2	39.3	0.90
7FPFYN		446.0	29.0	0.74	441.2	22.3	0.51
8REYQY		436.6	19.6	0.50	437.6	18.7	0.43
AL4MNH		446.6	29.6	0.76	453.2	34.3	0.79
CLE9BP		419.4	2.4	0.06	394.0	-24.9	-0.57
G7K8LK	*	308.0	-109.0	-2.80	292.8	-126.1	-2.89
G7MYH8		444.6	27.6	0.71	464.5	45.6	1.05
HJ9KBF		398.0	-19.0	-0.49	408.6	-10.3	-0.24
HXA6ZJ		414.2	-2.8	-0.07	415.1	-3.8	-0.09
LCZ9UK		424.3	7.3	0.19	440.5	21.6	0.49
Q6JLMC		404.9	-12.1	-0.31	407.1	-11.8	-0.27
RP7DM9		424.0	7.0	0.18	433.6	14.7	0.34
U89AM2		393.6	-23.4	-0.60	381.4	-37.5	-0.86
XGCF2R		429.0	12.0	0.31	442.6	23.7	0.54
XGU8DX		428.4	11.4	0.29	445.0	26.1	0.60
ZF6VGW		387.2	-29.8	-0.76	390.2	-28.7	-0.66

Summary Statistics			
Grand Means	417.02 percent	418.91 percent	
Std Dev Btwn Labs	38.98 percent	43.59 percent	
Statistics based on 20 of 20 reporting participants			

Samples RC51: Nitrile O-Ring & RC52: Nitrile O-Ring



Rubber Interlaboratory Testing Program

Analysis 641

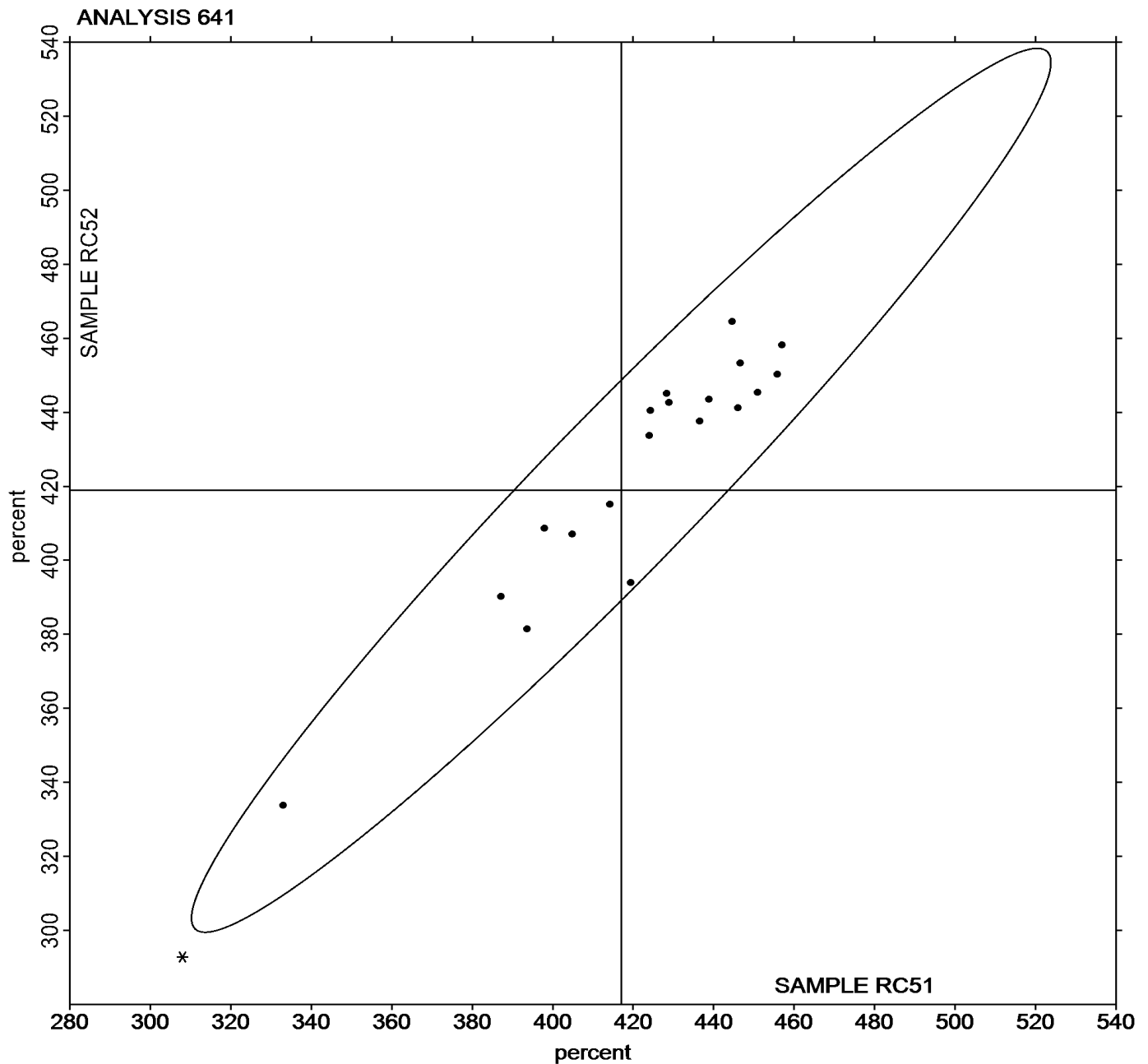
O-Ring Ultimate Elongation (%)

Report #225

3rd Qtr 2025

Grand Mean Sample **RC51** = 417.02 percent

Grand Mean Sample **RC52** = 418.91 percent





Rubber Interlaboratory Testing Program
Analysis 642
O-Ring Stress at 100% Elongation (psi)

Report #225
3rd Qtr 2025

WebCode	Data Flag	Sample RC51			Sample RC52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2U3JWT		427.0	-10.3	-0.13	462.0	20.2	0.24
324VRQ		359.2	-78.1	-0.99	358.2	-83.6	-0.98
4MFHJM		421.5	-15.8	-0.20	417.7	-24.1	-0.28
6UBV3M		429.6	-7.7	-0.10	435.6	-6.2	-0.07
7FPFYN		242.4	-194.9	-2.47	238.6	-203.2	-2.39
8REYQY		447.3	10.0	0.13	456.0	14.2	0.17
AL4MNH		338.7	-98.5	-1.25	344.4	-97.4	-1.14
G7K8LK		573.2	135.9	1.72	616.2	174.4	2.05
G7MYH8		441.8	4.5	0.06	442.1	0.3	0.00
HJ9KBF		392.8	-44.5	-0.56	390.7	-51.1	-0.60
HXA6ZJ		401.1	-36.2	-0.46	400.4	-41.4	-0.49
LCZ9UK		434.8	-2.4	-0.03	439.5	-2.3	-0.03
Q6JLMC		567.1	129.8	1.64	592.0	150.2	1.76
RP7DM9		492.1	54.8	0.69	492.6	50.8	0.60
U89AM2	*	514.8	77.5	0.98	472.8	31.0	0.36
XGCF2R		491.0	53.7	0.68	492.6	50.8	0.60
XGU8DX		427.8	-9.5	-0.12	431.2	-10.6	-0.12
ZF6VGW		468.6	31.3	0.40	469.8	28.0	0.33

Grand Means		Summary Statistics	
	437.27 psi		441.80 psi
Std Dev Btwn Labs	78.93 psi		85.17 psi
Statistics based on 18 of 18 reporting participants			

Samples RC51: Nitrile O-Ring & RC52: Nitrile O-Ring



Rubber Interlaboratory Testing Program

Analysis 642

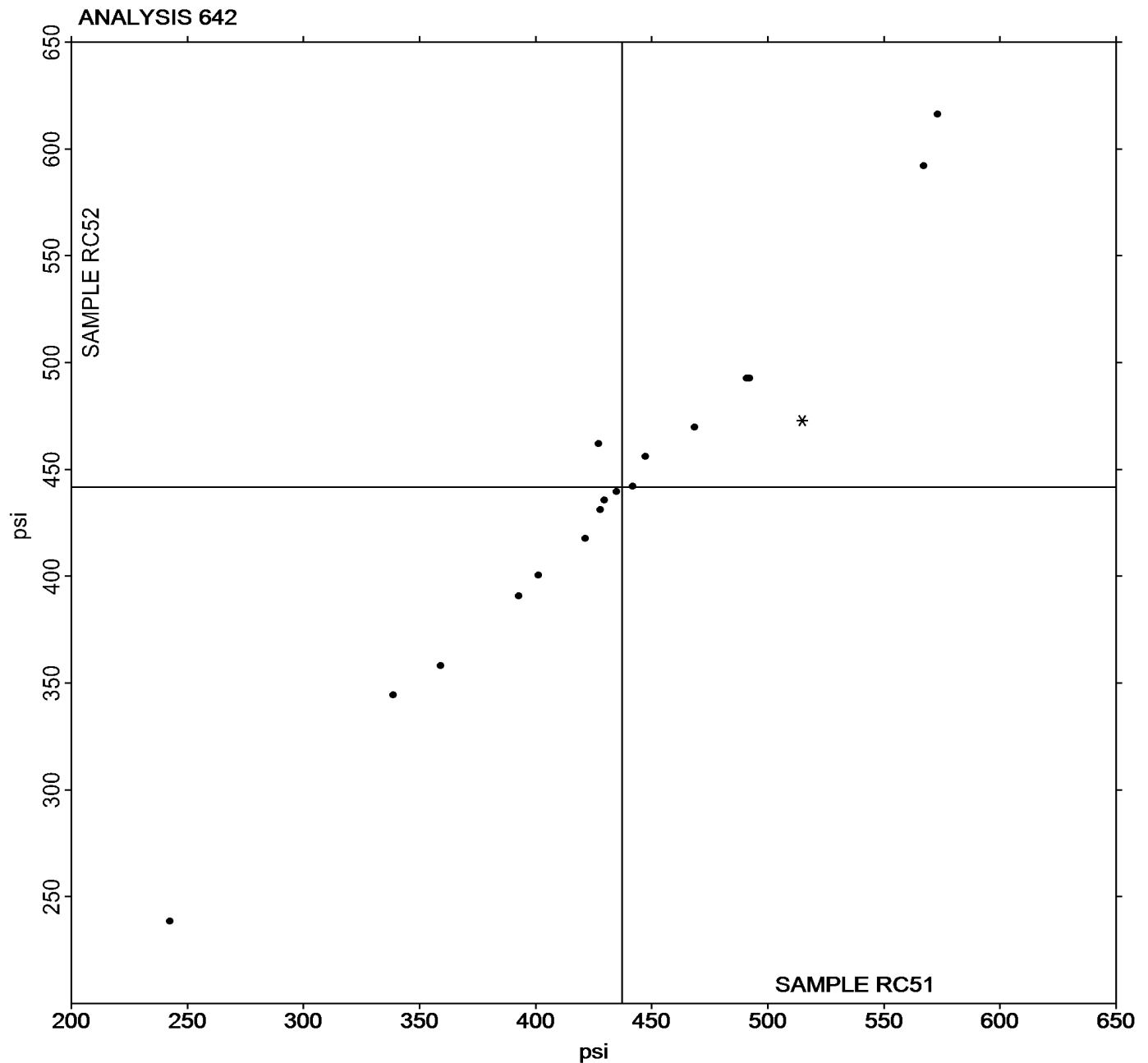
O-Ring Stress at 100% Elongation (psi)

Report #225

3rd Qtr 2025

Grand Mean Sample **RC51** = 437.27 psi

Grand Mean Sample **RC52** = 441.80 psi



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



Rubber Interlaboratory Testing Program

Analysis 647

O-Ring Hardness (Shore A)

Report #225

3rd Qtr 2025

WebCode	Data Flag	Sample RC51			Sample RC52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2U3JWT	*	69.80	1.88	0.83	72.80	4.47	1.81
324VRQ		68.72	0.80	0.35	68.84	0.51	0.21
3XHCKZ		69.90	1.98	0.88	69.06	0.73	0.30
4MFHJM		65.80	-2.12	-0.94	66.56	-1.77	-0.72
6UBV3M		69.46	1.54	0.68	69.90	1.57	0.64
7FPFYN		70.40	2.48	1.10	71.00	2.67	1.08
8REYQY		64.14	-3.78	-1.68	64.08	-4.25	-1.72
AL4MNH		66.20	-1.72	-0.76	67.20	-1.13	-0.46
CANCCC		69.68	1.76	0.78	70.22	1.89	0.77
FEK8LM		67.40	-0.52	-0.23	67.80	-0.53	-0.22
G7K8LK		64.60	-3.32	-1.47	65.60	-2.73	-1.11
G7MYH8		65.26	-2.66	-1.18	65.34	-2.99	-1.21
HXA6ZJ		66.68	-1.24	-0.55	66.10	-2.23	-0.91
LCZ9UK		67.60	-0.32	-0.14	67.20	-1.13	-0.46
Q6JLMC		72.77	4.85	2.15	73.47	5.14	2.09
RP7DM9		66.00	-1.92	-0.85	66.80	-1.53	-0.62
U89AM2		69.60	1.68	0.74	69.40	1.07	0.43
XGCF2R		68.14	0.22	0.10	68.50	0.17	0.07
ZF6VGW		68.40	0.48	0.21	68.40	0.07	0.03

Grand Means		Summary Statistics	
	67.924 Type A		68.330 Type A
Std Dev Btwn Labs	2.258 Type A		2.464 Type A
Statistics based on 19 of 19 reporting participants			

Samples RC51: Nitrile O-Ring & RC52: Nitrile O-Ring

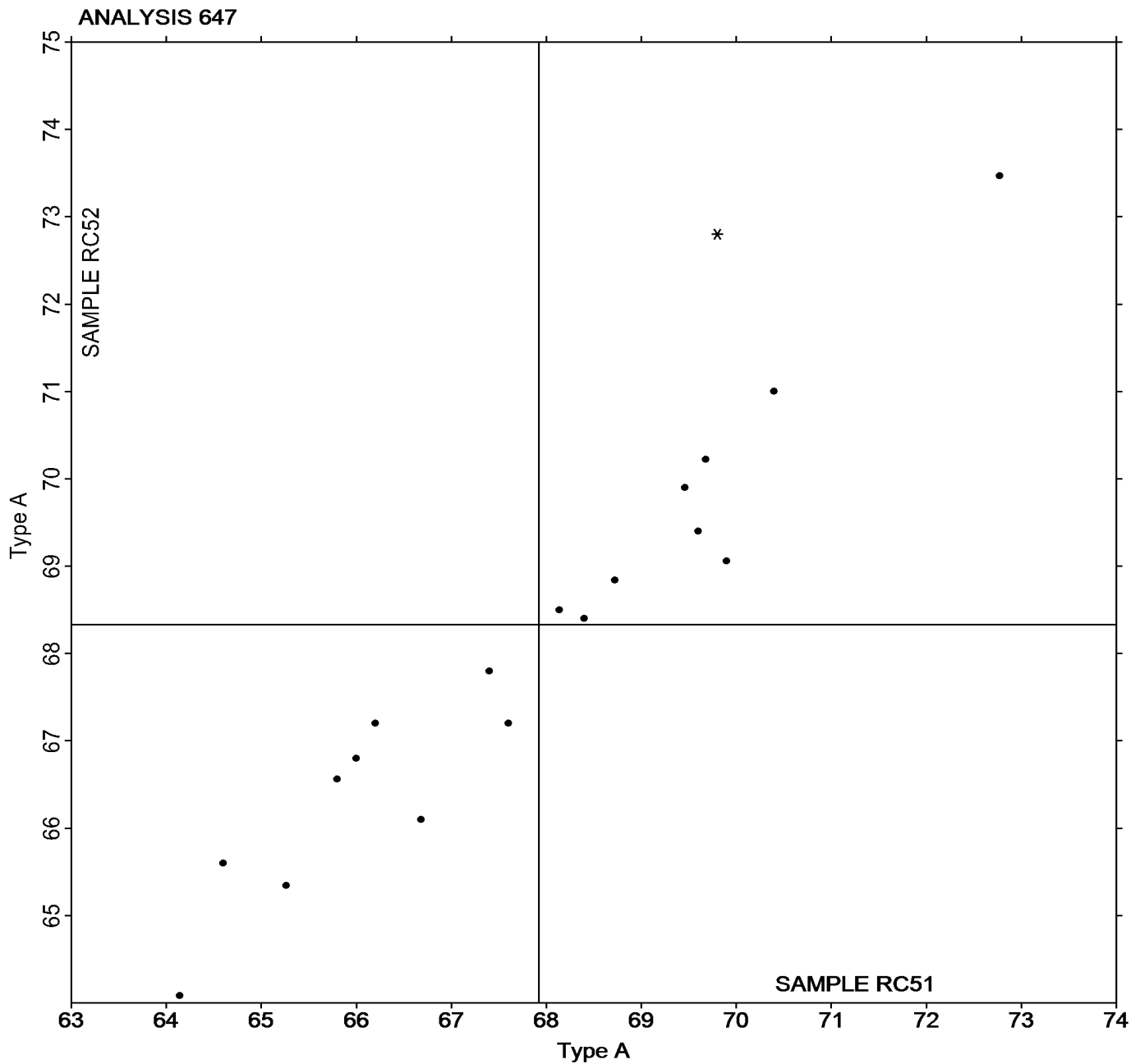


Rubber Interlaboratory Testing Program
Analysis 647
O-Ring Hardness (Shore A)

Report #225
3rd Qtr 2025

Grand Mean Sample **RC51** = 67.924 Type A

Grand Mean Sample **RC52** = 68.330 Type A



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



Rubber Interlaboratory Testing Program

Analysis 648

O-Ring Hardness (Shore M)

Report #225

3rd Qtr 2025

WebCode	Data Flag	Sample RC51			Sample RC52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2U3JWT	*	75.70	2.40	0.72	77.30	4.03	1.10
324VRQ		77.06	3.76	1.13	77.28	4.01	1.09
6UBV3M		72.08	-1.22	-0.37	71.08	-2.19	-0.60
7FPFYN		75.80	2.50	0.75	75.60	2.33	0.63
8REYQY		73.26	-0.04	-0.01	73.40	0.13	0.04
CANCCC		70.98	-2.32	-0.70	70.94	-2.33	-0.63
FEK8LM		72.60	-0.70	-0.21	72.80	-0.47	-0.13
G7K8LK	*	63.56	-9.74	-2.93	62.74	-10.53	-2.87
G7MYH8		70.02	-3.28	-0.99	69.82	-3.45	-0.94
HXA6ZJ		75.08	1.78	0.53	75.08	1.81	0.49
LCZ9UK		76.26	2.96	0.89	76.70	3.43	0.93
RP7DM9		74.18	0.88	0.26	74.04	0.77	0.21
U89AM2		74.18	0.88	0.26	74.10	0.83	0.23
XGCF2R		74.32	1.02	0.31	74.20	0.93	0.25
ZF6VGW		74.44	1.14	0.34	73.98	0.71	0.19

Grand Means		Summary Statistics	
	73.301 Type M		73.271 Type M
Std Dev Btwn Labs			
	3.327 Type M		3.671 Type M
Statistics based on 15 of 15 reporting participants			

Samples RC51: Nitrile O-Ring & RC52: Nitrile O-Ring

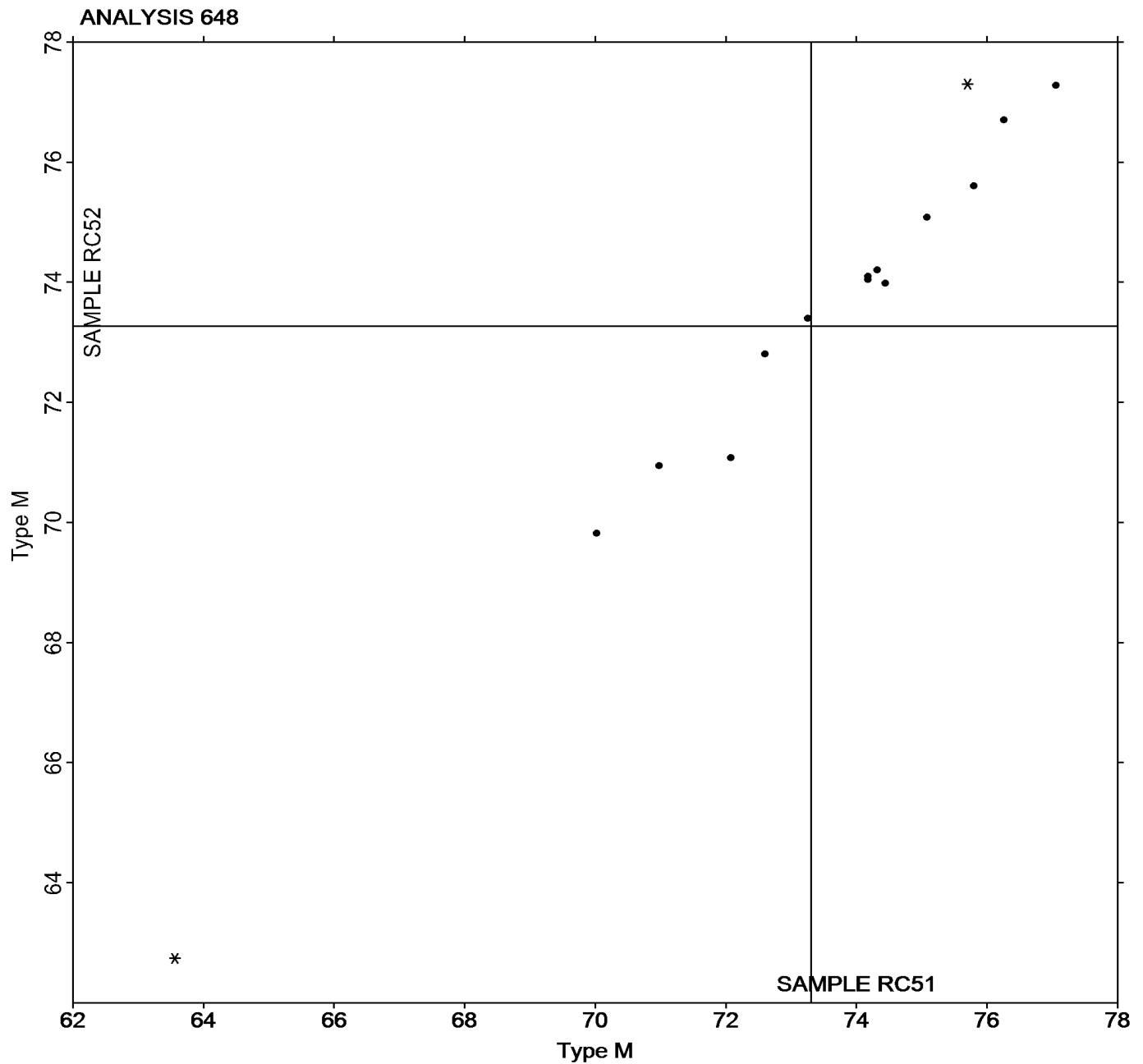


Rubber Interlaboratory Testing Program
Analysis 648
O-Ring Hardness (Shore M)

Report #225
3rd Qtr 2025

Grand Mean Sample **RC51** = 73.301 Type M

Grand Mean Sample **RC52** = 73.271 Type M



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



Rubber Interlaboratory Testing Program

Analysis 649

O-Ring Density

Report #225

3rd Qtr 2025

WebCode	Data Flag	Sample RC51			Sample RC52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2U3JWT		1.205	-0.003	-0.64	1.205	-0.003	-0.71
324VRQ		1.206	-0.002	-0.48	1.204	-0.004	-0.84
3XHCKZ	*	1.221	0.013	2.88	1.220	0.012	2.69
4MFHJM	X	1.217	0.009	2.05	1.207	-0.001	-0.14
6UBV3M		1.216	0.008	1.90	1.217	0.009	1.99
7FPFYN		1.206	-0.002	-0.46	1.206	-0.002	-0.49
8REYQY		1.212	0.004	0.87	1.211	0.003	0.72
AL4MNH	*	1.205	-0.003	-0.62	1.202	-0.006	-1.28
CANCCC		1.209	0.001	0.14	1.209	0.001	0.18
CLE9BP		1.211	0.003	0.67	1.210	0.002	0.54
FEK8LM		1.206	-0.002	-0.55	1.206	-0.002	-0.49
G7K8LK		1.208	0.000	0.00	1.208	0.000	0.05
G7MYH8		1.205	-0.003	-0.62	1.204	-0.004	-0.84
HJ9KBF		1.207	-0.001	-0.23	1.208	0.000	0.05
HXA6ZJ		1.210	0.002	0.46	1.210	0.002	0.45
LCZ9UK		1.208	0.000	0.09	1.208	0.000	0.09
Q6JLMC	X	1.097	-0.111	-25.31	1.098	-0.110	-24.57
RP7DM9		1.201	-0.007	-1.65	1.201	-0.007	-1.60
U89AM2		1.206	-0.002	-0.38	1.208	0.000	-0.07
XGCF2R		1.204	-0.004	-0.81	1.206	-0.002	-0.41
XGU8DX		1.206	-0.002	-0.37	1.208	0.000	0.01
ZF6VGW		1.207	-0.001	-0.17	1.208	0.000	-0.04

Grand Means		Summary Statistics	
	1.2080 g/cm ³ (Mg/m ³)		1.2080 g/cm ³ (Mg/m ³)
Stnd Dev Btwn Labs	0.0044 g/cm ³ (Mg/m ³)		0.0045 g/cm ³ (Mg/m ³)
Statistics based on 20 of 22 reporting participants			

Samples RC51: Nitrile O-Ring & RC52: Nitrile O-Ring

Comments on Assigned Data Flags for Test #649

4MFHJM (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample group RC52.

Q6JLMC (X) - Extreme Data.



Rubber Interlaboratory Testing Program

Analysis 649

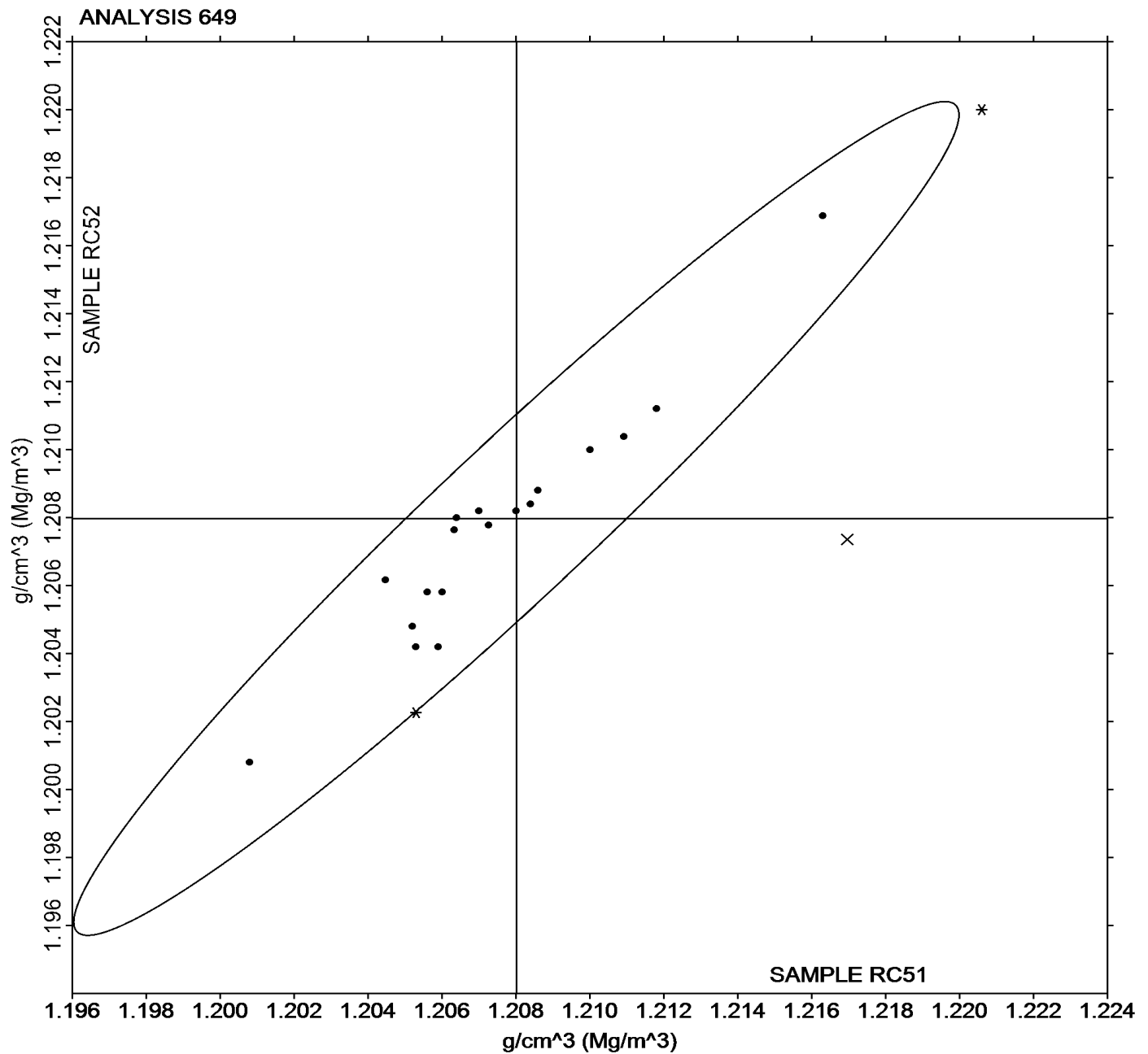
O-Ring Density

Report #225

3rd Qtr 2025

Grand Mean Sample **RC51** = 1.2080 g/cm³
(Mg/m³)

Grand Mean Sample **RC52** = 1.2080 g/cm³
(Mg/m³)





Rubber Interlaboratory Testing Program

Analysis 650

O-Ring Compression Set Method B

Report #225

3rd Qtr 2025

WebCode	Data Flag	Sample RC53			Sample RC54		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2U3JWT		8.467	-0.968	-0.55	8.533	-0.895	-0.49
324VRQ		7.000	-2.435	-1.39	8.000	-1.428	-0.78
4MFHJM		13.600	4.165	2.39	14.200	4.772	2.61
6UBV3M		11.590	2.155	1.23	8.760	-0.668	-0.37
7FPFYN		8.800	-0.635	-0.36	8.800	-0.628	-0.34
AL4MNH		7.367	-2.068	-1.18	8.767	-0.661	-0.36
CLE9BP		11.767	2.332	1.34	10.933	1.505	0.82
HJ9KBF		8.820	-0.615	-0.35	5.880	-3.548	-1.94
HXA6ZJ		9.600	0.165	0.09	9.067	-0.361	-0.20
LCZ9UK		9.373	-0.062	-0.04	9.087	-0.341	-0.19
RP7DM9		9.500	0.065	0.04	10.567	1.139	0.62
U89AM2		8.667	-0.768	-0.44	9.000	-0.428	-0.23
VBPZ83		9.803	0.368	0.21	10.784	1.356	0.74
XGCF2R		7.840	-1.595	-0.91	8.710	-0.718	-0.39
ZF6VGW		9.333	-0.102	-0.06	10.333	0.905	0.50

Grand Means		Summary Statistics	
	9.4351 % Compression		9.4280 % Compression
Stnd Dev Btwn Labs	1.7458 % Compression		1.8253 % Compression
		Statistics based on 15 of 15 reporting participants	

Samples RC53: Nitrile O-Ring & RC54: Nitrile O-Ring

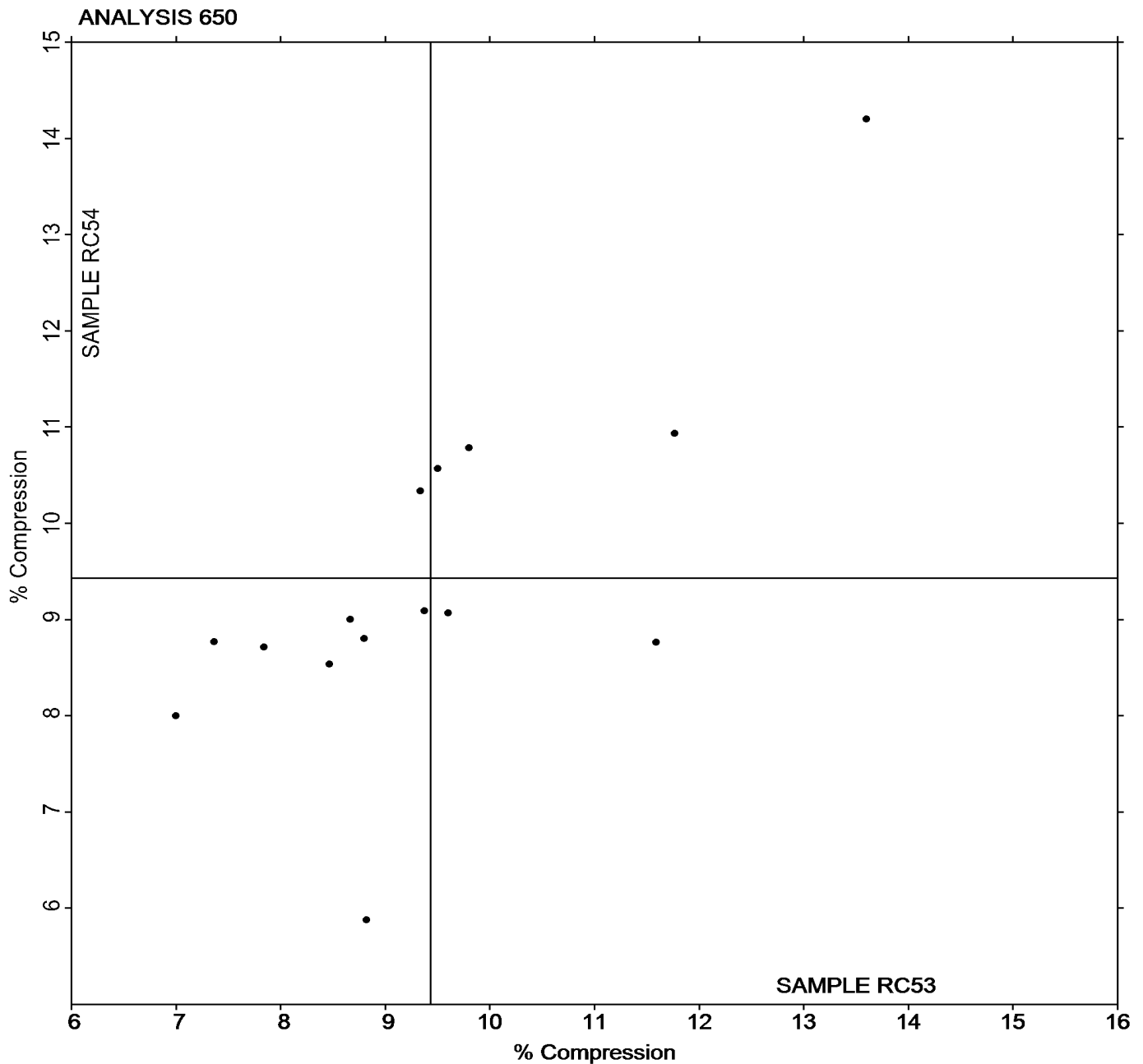


Rubber Interlaboratory Testing Program
Analysis 650
O-Ring Compression Set Method B

Report #225
3rd Qtr 2025

Grand Mean Sample **RC53** = 9.4351 % Compression

Grand Mean Sample **RC54** = 9.4280 % Compression



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



Rubber Interlaboratory Testing Program

Analysis 660

Report #225

3rd Qtr 2025

Mooney Viscosity: 4-minute readings (ML 1 + 4)

WebCode	Data Flag	Sample U51-U52			Sample U53-U54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
23G76W		46.40	0.72	0.43	56.92	0.72	0.42	MR
2FPXNW		46.72	1.04	0.61	57.72	1.52	0.89	MR
2U3JWT		46.13	0.46	0.27	55.72	-0.48	-0.28	MR
2YWDUU		45.13	-0.54	-0.32	55.35	-0.84	-0.49	MR
4MFHJM		44.62	-1.05	-0.62	56.45	0.26	0.15	ML
62RDCP		44.60	-1.08	-0.64	56.88	0.69	0.40	MR
6UBV3M	M	47.73	2.06	1.22	No data reported for this sample			MR
7PHQ9J		46.12	0.44	0.26	56.77	0.57	0.33	ML
DAXP9K		47.92	2.24	1.33	59.93	3.74	2.18	TA
EDVLEQ		46.25	0.57	0.34	54.80	-1.39	-0.81	MR
FBHDBJ	X	42.87	-2.81	-1.66	61.33	5.14	2.99	MR
G7K8LK		46.35	0.67	0.40	56.86	0.67	0.39	MV
L8LT38		44.47	-1.21	-0.72	55.00	-1.19	-0.70	MR
LNTVZF		46.15	0.47	0.28	55.61	-0.59	-0.34	ML
M38HP4		43.49	-2.19	-1.30	54.73	-1.47	-0.86	MV
M9PW3A		48.13	2.45	1.45	58.34	2.15	1.25	MR
NTWDCD		44.42	-1.26	-0.74	55.10	-1.09	-0.64	MV
NX8QUC		43.41	-2.26	-1.34	54.81	-1.39	-0.81	MR
TBF3D8		45.22	-0.46	-0.27	56.55	0.36	0.21	MR
TNQBDE		45.50	-0.18	-0.10	56.85	0.66	0.38	MR
UV24T3		46.18	0.50	0.30	57.42	1.22	0.71	MR
VKJWK6	*	41.43	-4.24	-2.51	50.88	-5.31	-3.09	MR
Y9U8DV		45.33	-0.35	-0.21	55.77	-0.42	-0.25	MR
YRLDJ2		47.65	1.97	1.17	56.60	0.41	0.24	MR
YY3XKR		48.97	3.29	1.94	57.43	1.24	0.72	XX

Grand Means

45.677 ML 1 + 4

Std Dev Btwn Labs

1.691 ML 1 + 4

Summary Statistics

56.195 ML 1 + 4

1.716 ML 1 + 4

Statistics based on 23 of 25 reporting participants

Samples U51-U52: NBR & U53-U54: Butyl

Comments on Assigned Data Flags for Test #660

6UBV3M (M) - Participant did not submit data for sample group U53-U54.

FBHDBJ (X) - Data for sample group U53-U54 are high. Inconsistent within the determinations of sample group U51-U52.



Rubber Interlaboratory Testing Program
Analysis 660
Mooney Viscosity: 4-minute readings (ML 1 + 4)

Report #225
3rd Qtr 2025

Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified	MR	Alpha Technologies Model MV2000/MV2000E
MV	MonTech	TA	TA Instruments (any model)
XX	Instrument make/model not specified by lab		

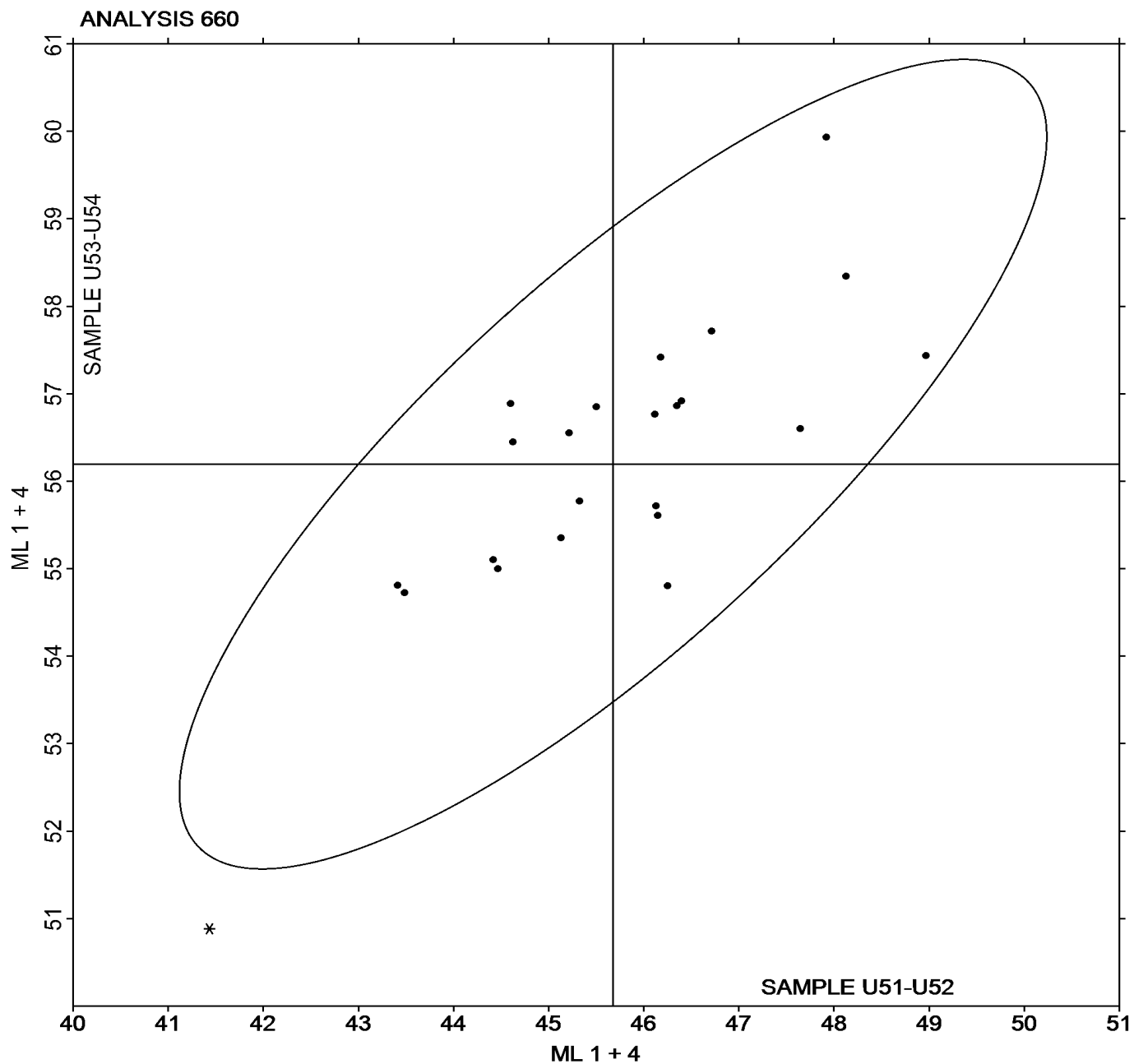


Rubber Interlaboratory Testing Program
Analysis 660
Mooney Viscosity: 4-minute readings (ML 1 + 4)

Report #225
3rd Qtr 2025

Grand Mean Sample **U51-U52** = 45.677 ML 1 + 4

Grand Mean Sample **U53-U54** = 56.195 ML 1 + 4





Rubber Interlaboratory Testing Program

Analysis 661

Report #225

3rd Qtr 2025

Mooney Viscosity: 4-min NBR/SBR & 8-min butyl readings (ML)

WebCode	Data Flag	Sample U51-U52			Sample U53-U54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
23G76W		46.40	0.87	0.52	54.83	0.62	0.40	MR
2FPXNW		46.72	1.18	0.71	55.80	1.59	1.03	MR
2U3JWT		46.13	0.60	0.36	53.13	-1.08	-0.70	MR
2YWDUU		45.13	-0.40	-0.24	53.22	-0.99	-0.64	MR
4MFHJM		44.62	-0.91	-0.54	53.88	-0.33	-0.21	ML
62RDCP		44.60	-0.93	-0.56	54.52	0.31	0.20	MR
7PHQ9J		46.12	0.58	0.35	54.68	0.47	0.31	ML
DAXP9K		47.92	2.39	1.43	57.18	2.97	1.92	TA
FBHDJB	X	42.87	-2.67	-1.59	60.72	6.51	4.21	MR
G7K8LK		46.35	0.82	0.49	54.51	0.30	0.20	MV
L8LT38		44.47	-1.07	-0.64	53.70	-0.51	-0.33	MR
LNTVZF		46.15	0.62	0.37	55.05	0.84	0.54	MR
M38HP4		43.49	-2.05	-1.22	51.78	-2.43	-1.57	MV
M9PW3A	X	48.13	2.59	1.55	36.67	-17.54	-11.36	MR
NTWDCD		44.42	-1.12	-0.67	53.06	-1.15	-0.74	MV
NX8QUC		43.41	-2.12	-1.27	52.64	-1.57	-1.02	MR
TBF3D8		45.22	-0.32	-0.19	54.32	0.11	0.07	MR
TNQBDE		45.50	-0.03	-0.02	53.33	-0.88	-0.57	MR
UV24T3	*	46.18	0.65	0.39	57.42	3.21	2.08	XX
VKJWK6		41.43	-4.10	-2.45	51.47	-2.74	-1.78	MR
Y9U8DV		45.33	-0.21	-0.12	53.69	-0.52	-0.34	MR
YRLDJ2		47.65	2.12	1.26	54.03	-0.18	-0.11	MR
YY3XKR		48.97	3.43	2.05	56.15	1.94	1.26	XX

Grand Means		Summary Statistics	
	45.533 ML 1 + 8		54.209 ML 1 + 8
Stnd Dev Btwn Labs			
	1.676 ML 1 + 8		1.545 ML 1 + 8
Statistics based on 21 of 23 reporting participants			

Samples U51-U52: NBR & U53-U54: Butyl

Comments on Assigned Data Flags for Test #661

FBHDJB (X) - Data for sample group U53-U54 are high. Inconsistent within the determinations of both sample groups.

M9PW3A (X) - Data for sample group U53-U54 are low.



Rubber Interlaboratory Testing Program

Report #225

Analysis 661

3rd Qtr 2025

Mooney Viscosity: 4-min NBR/SBR & 8-min butyl readings (ML)

Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified	MR	Alpha Technologies Model MV2000/MV2000E
MV	Montech	TA	TA Instruments (any model)
XX	Instrument make/model not specified by lab		



Rubber Interlaboratory Testing Program

Analysis 661

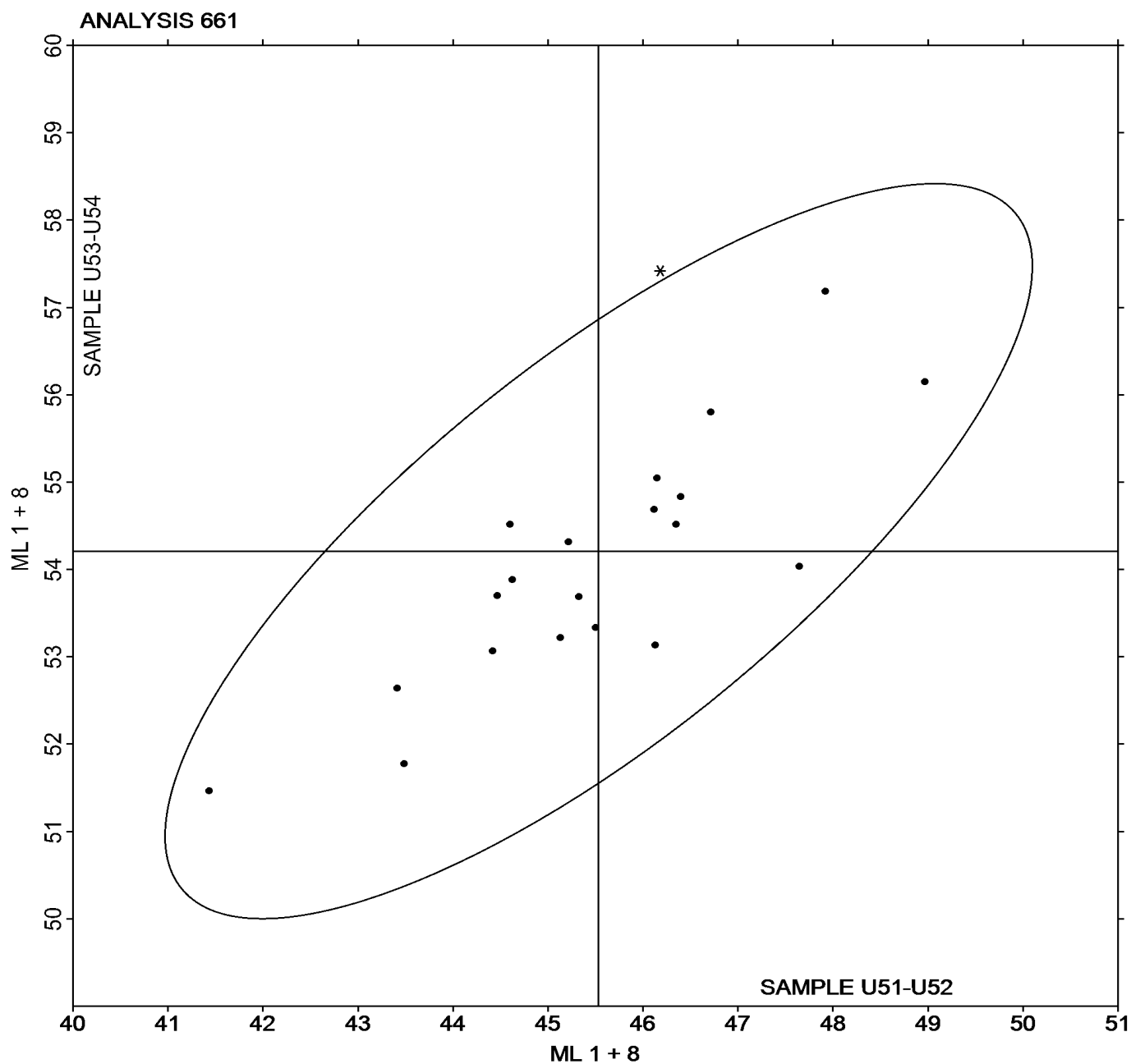
Report #225

3rd Qtr 2025

Mooney Viscosity: 4-min NBR/SBR & 8-min butyl readings (ML)

Grand Mean Sample **U51-U52** = 45.533 ML 1 + 8

Grand Mean Sample **U53-U54** = 54.209 ML 1 + 8





Rubber Interlaboratory Testing Program

Analysis 662

Report #225

3rd Qtr 2025

Mooney Stress Relaxation: 180 (seconds)

WebCode	Data Flag	Sample U51-U52			Sample U53-U54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2YWDUU		5.760	0.042	0.03	9.183	0.426	0.19	MR
4MFHJM		5.250	-0.468	-0.36	8.700	-0.057	-0.03	ML
7PHQ9J		5.225	-0.493	-0.38	8.852	0.094	0.04	ML
G7K8LK		4.538	-1.179	-0.91	7.923	-0.834	-0.37	MV
M38HP4	X	663.000	657.282	508.97	666.600	657.843	293.54	MV
NTWDCD		5.672	-0.046	-0.04	5.207	-3.551	-1.58	MV
Y9U8DV		5.078	-0.639	-0.50	8.603	-0.154	-0.07	MR
YY3XKR		8.500	2.782	2.15	12.833	4.076	1.82	XX

Grand Means		Summary Statistics	
	5.7176 seconds		8.7574 seconds
Stnd Dev Btwn Labs	1.2914 seconds		2.2411 seconds
		Statistics based on 7 of 8 reporting participants	

Samples U51-U52: NBR & U53-U54: Butyl

Comments on Assigned Data Flags for Test #662

M38HP4 (X) - Extreme Data.

Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified	MR	Alpha Technologies Model MV2000/MV2000E
MV	MonTech	XX	Instrument make/model not specified by lab

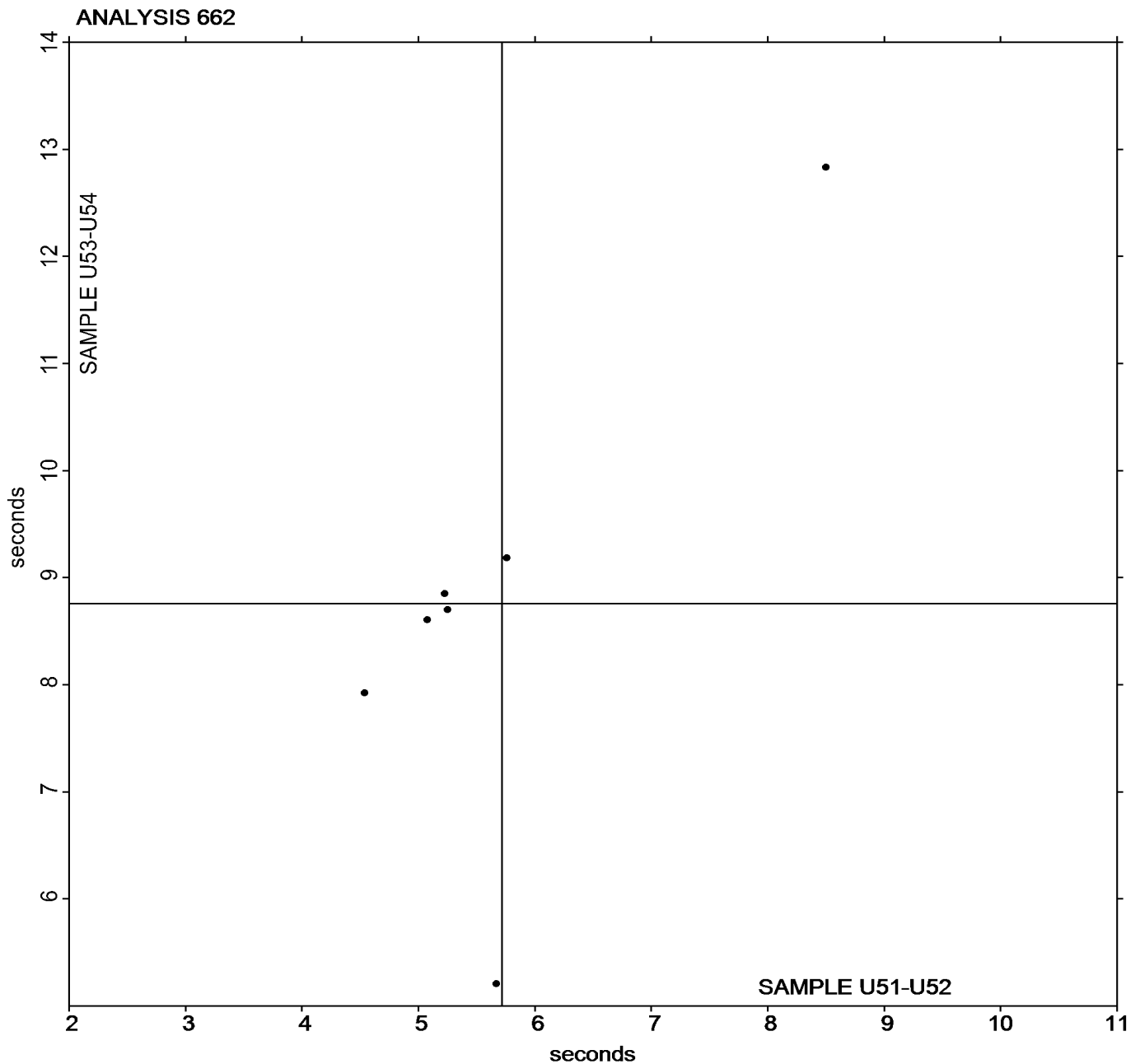


Rubber Interlaboratory Testing Program
Analysis 662
Mooney Stress Relaxation: 180 (seconds)

Report #225
3rd Qtr 2025

Grand Mean Sample **U51-U52** = 5.7176 seconds

Grand Mean Sample **U53-U54** = 8.7574 seconds



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



Rubber Interlaboratory Testing Program

Analysis 663

Report #225

3rd Qtr 2025

Mooney Stress Relaxation: X30 (percent)

WebCode	Data Flag	Sample U51-U52			Sample U53-U54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2YWDUU		90.48	0.44	0.10	90.64	0.00	0.00	MR
4MFHJM		91.00	0.96	0.22	90.96	0.32	0.18	ML
7PHQ9J		91.02	0.98	0.23	90.78	0.15	0.08	ML
G7K8LK		91.40	1.37	0.31	91.49	0.85	0.47	MV
M38HP4		96.16	6.12	1.41	93.83	3.19	1.79	MV
NTWDCD		80.67	-9.36	-2.15	88.72	-1.91	-1.07	MV
Y9U8DV		91.13	1.10	0.25	90.81	0.17	0.10	MR
YY3XKR		88.43	-1.60	-0.37	87.88	-2.76	-1.54	XX

Grand Means		Summary Statistics	
	90.038 percent		90.638 percent
Stnd Dev Btwn Labs	4.358 percent		1.785 percent
		Statistics based on 8 of 8 reporting participants	

Samples U51-U52: NBR & U53-U54: Butyl

Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified	MR	Alpha Technologies Model MV2000/MV2000E
MV	Montech	XX	Instrument make/model not specified by lab



Rubber Interlaboratory Testing Program

Analysis 663

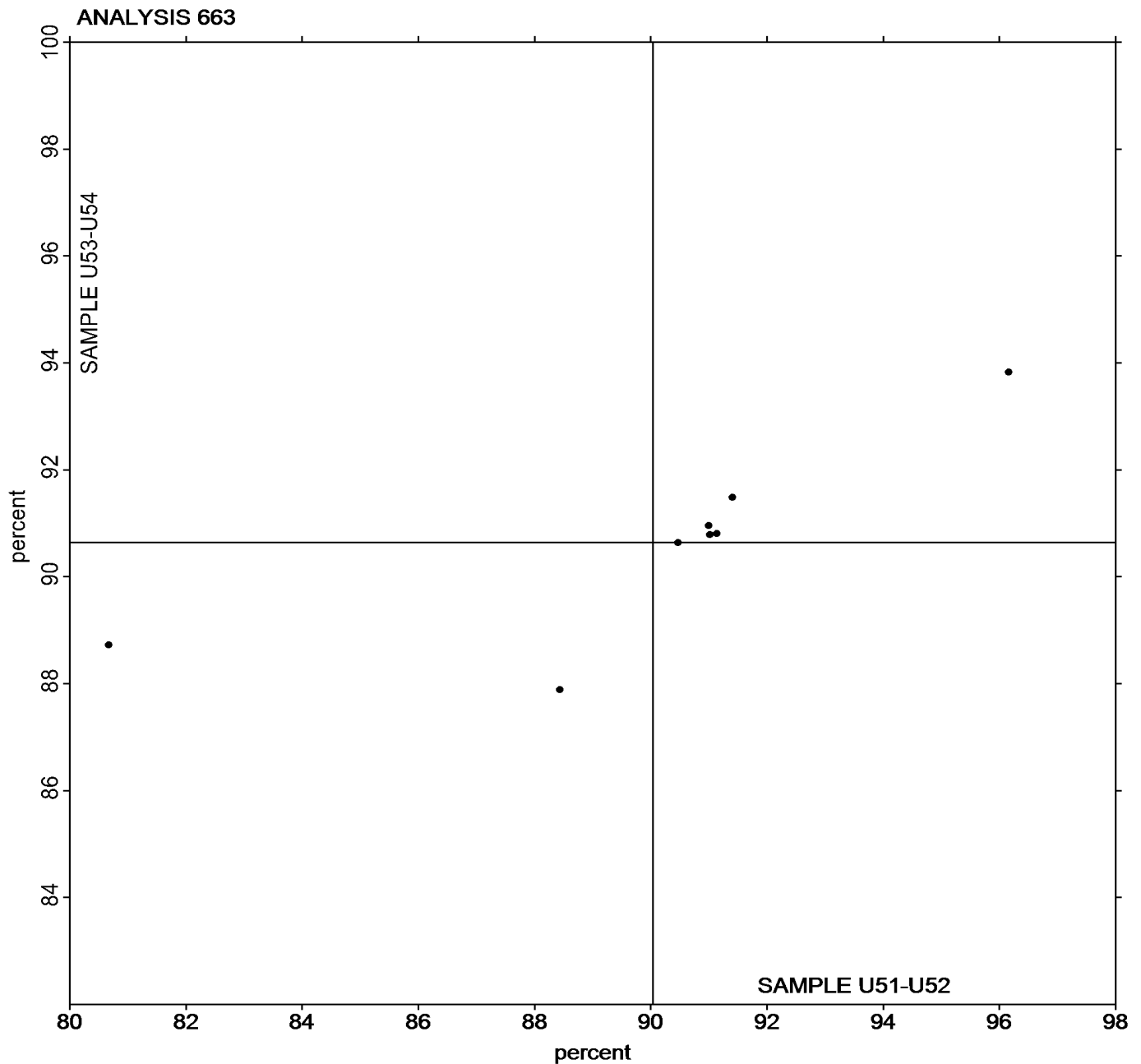
Mooney Stress Relaxation: X30 (percent)

Report #225

3rd Qtr 2025

Grand Mean Sample **U51-U52** = 90.038 percent

Grand Mean Sample **U53-U54** = 90.638 percent



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



Rubber Interlaboratory Testing Program

Analysis 664

Report #225

3rd Qtr 2025

Mooney Stress Relaxation: Area under curve (M-s)

WebCode	Data Flag	Sample U51-U52			Sample U53-U54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2YWDUU		469.0	37.3	1.56	560.7	9.2	0.37	XX
4MFHJM		433.6	2.0	0.08	542.1	-9.3	-0.37	ML
7PHQ9J		448.8	17.2	0.72	559.2	7.7	0.31	ML
G7K8LK		425.0	-6.7	-0.28	501.7	-49.8	-1.99	MV
M38HP4	X	154.7	-276.9	-11.61	343.5	-207.9	-8.33	MV
NTWDCD		391.5	-40.2	-1.69	564.2	12.8	0.51	MV
Y9U8DV		429.7	-1.9	-0.08	551.4	-0.1	0.00	MR
YY3XKR		424.1	-7.6	-0.32	580.8	29.4	1.18	XX

Grand Means		Summary Statistics	
	431.68 M-s		551.43 M-s
Stnd Dev Btwn Labs	23.85 M-s		24.94 M-s
Statistics based on 7 of 8 reporting participants			

Samples U51-U52: NBR & U53-U54: Butyl

Comments on Assigned Data Flags for Test #664

M38HP4 (X) - Data for all samples are low.

Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified	MR	Alpha Technologies Model MV2000/MV2000E
MV	MonTech	XX	Instrument make/model not specified by lab

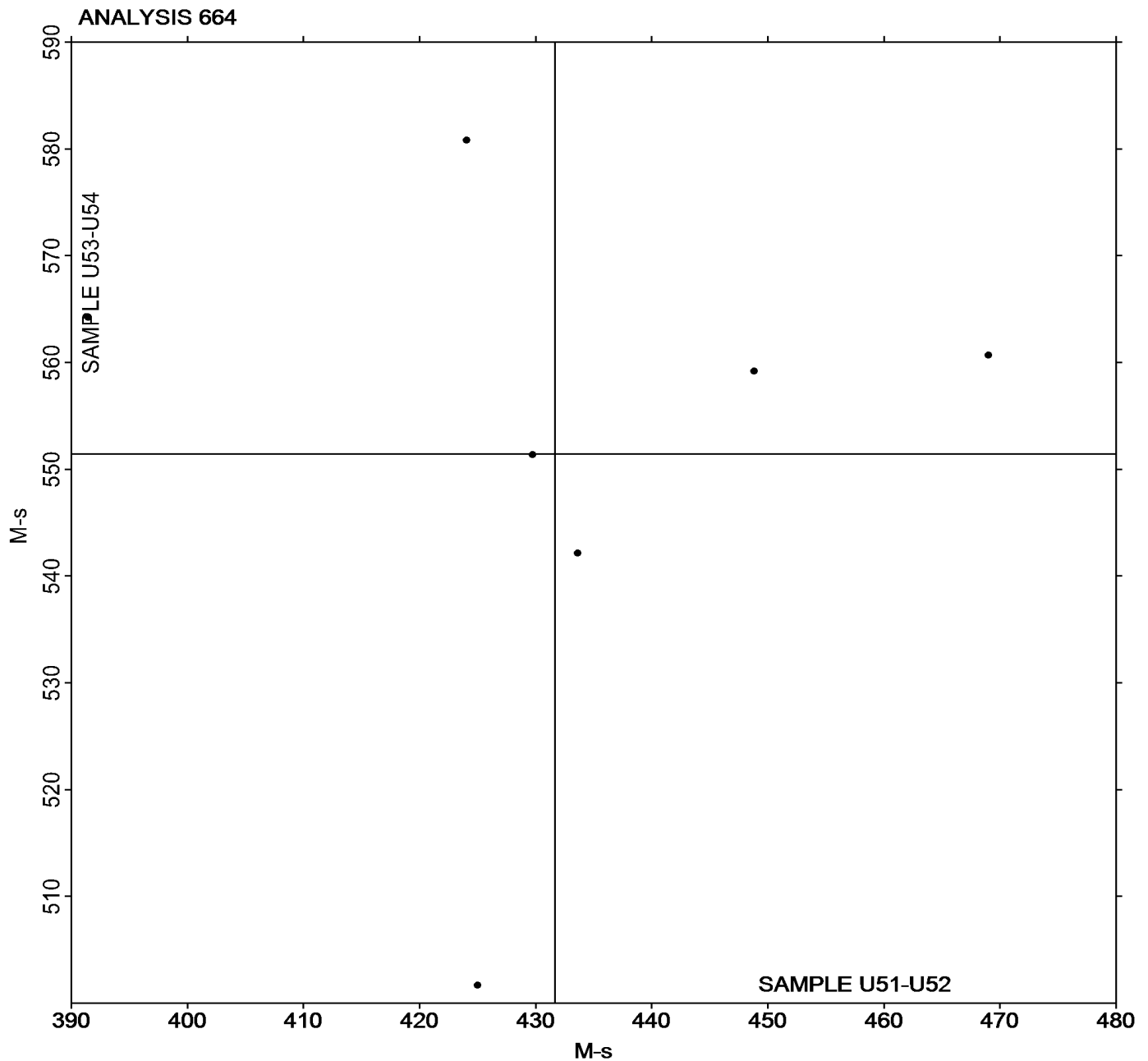


Rubber Interlaboratory Testing Program
Analysis 664
Mooney Stress Relaxation: Area under curve (M-s)

Report #225
3rd Qtr 2025

Grand Mean Sample **U51-U52** = 431.68 M-s

Grand Mean Sample **U53-U54** = 551.43 M-s



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



Rubber Interlaboratory Testing Program

Analysis 684

Report #225

3rd Qtr 2025

MDR Vulcanization-Cure Time 10% (minutes)

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
23G76W		1.523	0.042	0.63	1.608	0.028	0.40	ME
2U3JWT		1.482	0.001	0.01	1.568	-0.012	-0.16	MC
324VRQ	X	1.147	-0.334	-5.00	1.415	-0.165	-2.34	ME
4MFHJM		1.540	0.059	0.88	1.638	0.058	0.83	ME
62RDCP		1.480	-0.001	-0.02	1.526	-0.053	-0.76	MC
6UBV3M		1.510	0.029	0.43	1.550	-0.030	-0.42	MC
6V7D4P	X	0.900	-0.581	-8.69	1.448	-0.132	-1.86	MC
7FPFYN		1.406	-0.075	-1.12	1.533	-0.047	-0.67	MC
7HWV7U		1.388	-0.093	-1.39	1.512	-0.068	-0.97	ME
7PHQ9J		1.475	-0.006	-0.09	1.480	-0.100	-1.42	ME
AL4MNH		1.507	0.026	0.38	1.525	-0.055	-0.78	MC
BC94ME		1.507	0.026	0.38	1.638	0.058	0.83	ME
CWYCHN		1.528	0.047	0.71	1.672	0.092	1.30	MM
EDVLEQ		1.520	0.039	0.58	1.607	0.027	0.38	ME
G36PHH	*	1.592	0.111	1.65	1.422	-0.158	-2.24	XX
G7K8LK		1.600	0.119	1.78	1.552	-0.028	-0.40	XX
J4B4NE		1.528	0.047	0.71	1.658	0.078	1.11	XX
JVYUCE		1.503	0.022	0.33	1.660	0.080	1.14	MP
L8LT38		1.507	0.026	0.38	1.605	0.025	0.36	ME
LKVCZ3		1.400	-0.081	-1.21	1.560	-0.020	-0.28	MC
LNTVZF		1.462	-0.019	-0.29	1.748	0.168	2.39	XX
M38HP4		1.478	-0.003	-0.04	1.558	-0.022	-0.30	MM
NTWDCD		1.362	-0.119	-1.79	1.482	-0.098	-1.39	MR
NX8QUC		1.443	-0.038	-0.56	1.590	0.010	0.14	MC
UV24T3		1.447	-0.034	-0.51	1.560	-0.020	-0.28	ME
WVDEQX		1.448	-0.033	-0.49	1.575	-0.005	-0.07	MC
Y9U8DV		1.553	0.072	1.08	1.652	0.072	1.02	MD
YRLDJ2		1.318	-0.163	-2.43	1.597	0.017	0.24	MC

Grand Means

1.4811 minutes

Std Dev Btwn Labs

0.0669 minutes

Summary Statistics

1.5798 minutes

0.0705 minutes

Statistics based on 26 of 28 reporting participants

Samples Y55-Y56: EPDM Compound & Y57-Y58: EPDM Compound



Rubber Interlaboratory Testing Program
Analysis 684
MDR Vulcanization-Cure Time 10% (minutes)

Report #225
3rd Qtr 2025

Comments on Assigned Data Flags for Test #684

324VRQ (X) - Data for sample group Y55-Y56 are low.

6V7D4P (X) - Data for sample group Y55-Y56 are low. Inconsistent within the determinations of sample group Y55-Y56.

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MP	Alpha Technologies [Monsanto] MDR 2000P	MR	MonTech D-RPA 3000
XX	Instrument model not specified by lab		

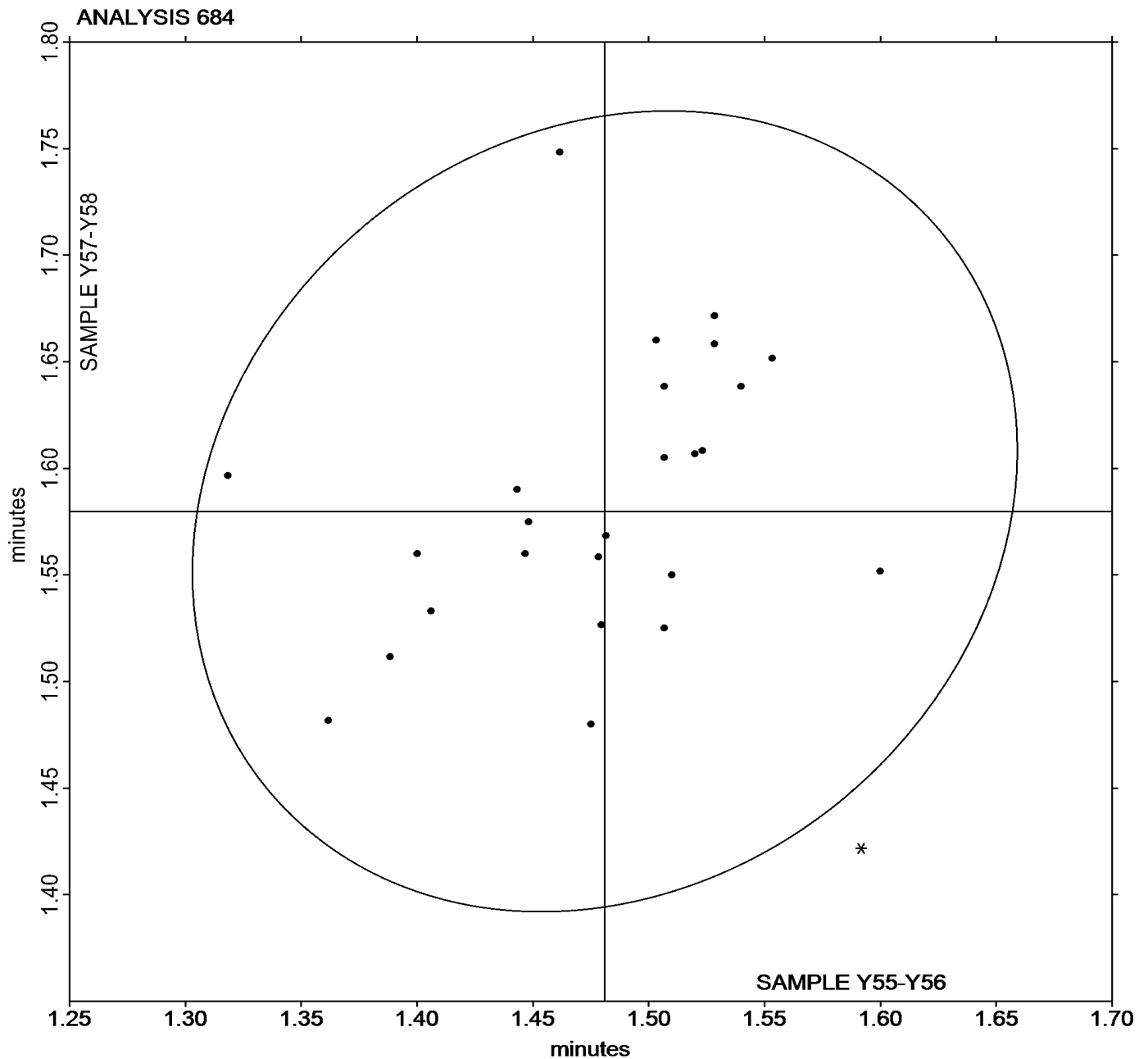


Rubber Interlaboratory Testing Program
Analysis 684
MDR Vulcanization-Cure Time 10% (minutes)

Report #225
3rd Qtr 2025

Grand Mean Sample **Y55-Y56** = 1.4811 minutes

Grand Mean Sample **Y57-Y58** = 1.5798 minutes





Rubber Interlaboratory Testing Program
Analysis 685
MDR Vulcanization-Scorch Time, Ts1 (minutes)

Report #225
3rd Qtr 2025

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
23G76W		1.480	0.007	0.07	1.537	-0.009	-0.08	ME
2U3JWT		1.497	0.024	0.24	1.537	-0.009	-0.08	MC
2YWDUU		1.358	-0.115	-1.17	1.518	-0.028	-0.26	MC
324VRQ	X	0.950	-0.523	-5.32	1.302	-0.244	-2.28	ME
4MFHJM		1.475	0.002	0.02	1.548	0.003	0.03	ME
62RDCP		1.485	0.012	0.12	1.508	-0.037	-0.35	MC
6UBV3M		1.505	0.032	0.33	1.528	-0.017	-0.16	MC
6V7D4P	X	0.848	-0.625	-6.36	1.473	-0.072	-0.67	MC
7FPFYN		1.386	-0.087	-0.89	1.494	-0.051	-0.48	MC
7HWV7U		1.435	-0.038	-0.39	1.513	-0.032	-0.30	ME
7PHQ9J		1.465	-0.008	-0.08	1.462	-0.084	-0.78	ME
9JK9KH		1.305	-0.168	-1.71	1.383	-0.162	-1.52	MC
AL4MNH		1.453	-0.020	-0.20	1.428	-0.117	-1.10	MC
CWYCHN		1.575	0.102	1.04	1.710	0.165	1.54	MM
EDVLEQ		1.552	0.079	0.80	1.600	0.055	0.51	ME
G36PHH	X	1.545	0.072	0.73	1.338	-0.207	-1.94	XX
G7K8LK		1.638	0.165	1.68	1.615	0.070	0.65	XX
J4B4NE		1.502	0.029	0.29	1.632	0.086	0.81	MR
JVYUCE		1.537	0.064	0.65	1.632	0.086	0.81	MP
KWTVZH		1.403	-0.070	-0.71	1.408	-0.137	-1.28	XX
L8LT38		1.570	0.097	0.99	1.583	0.038	0.36	ME
LKVCZ3		1.319	-0.154	-1.57	1.451	-0.094	-0.89	MC
LNTVZF		1.480	0.007	0.07	1.610	0.065	0.61	XX
M38HP4		1.567	0.094	0.95	1.595	0.050	0.47	MM
NTWDCD	*	1.748	0.275	2.80	1.868	0.323	3.03	MR
NX8QUC		1.452	-0.021	-0.22	1.567	0.021	0.20	MC
UV24T3		1.428	-0.045	-0.45	1.517	-0.029	-0.27	ME
VKJWK6		1.370	-0.103	-1.05	1.452	-0.094	-0.88	MR
WVDEQX		1.435	-0.038	-0.39	1.518	-0.027	-0.25	MC
Y9U8DV		1.567	0.094	0.95	1.668	0.123	1.15	MD
YRLDJ2		1.373	-0.100	-1.01	1.600	0.055	0.51	MC
ZF6VGW		1.358	-0.115	-1.17	1.330	-0.215	-2.02	MC



Rubber Interlaboratory Testing Program
Analysis 685
MDR Vulcanization-Scorch Time, Ts1 (minutes)

Report #225
3rd Qtr 2025

Grand Means		Summary Statistics
	1.4730 minutes	1.5453 minutes
Std Dev Btwn Labs	0.0983 minutes	0.1066 minutes
		Statistics based on 29 of 32 reporting participants

Samples Y55-Y56: EPDM Compound & Y57-Y58: EPDM Compound

Comments on Assigned Data Flags for Test #685

324VRQ (X) - Data for sample group Y55-Y56 are low.

6V7D4P (X) - Data for sample group Y55-Y56 are low. Inconsistent within the determinations of sample group Y55-Y56.

G36PHH (X) - Inconsistent in testing between samples.

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MP	Alpha Technologies [Monsanto] MDR 2000P	MR	MonTech D-RPA 3000
XX	Instrument model not specified by lab		

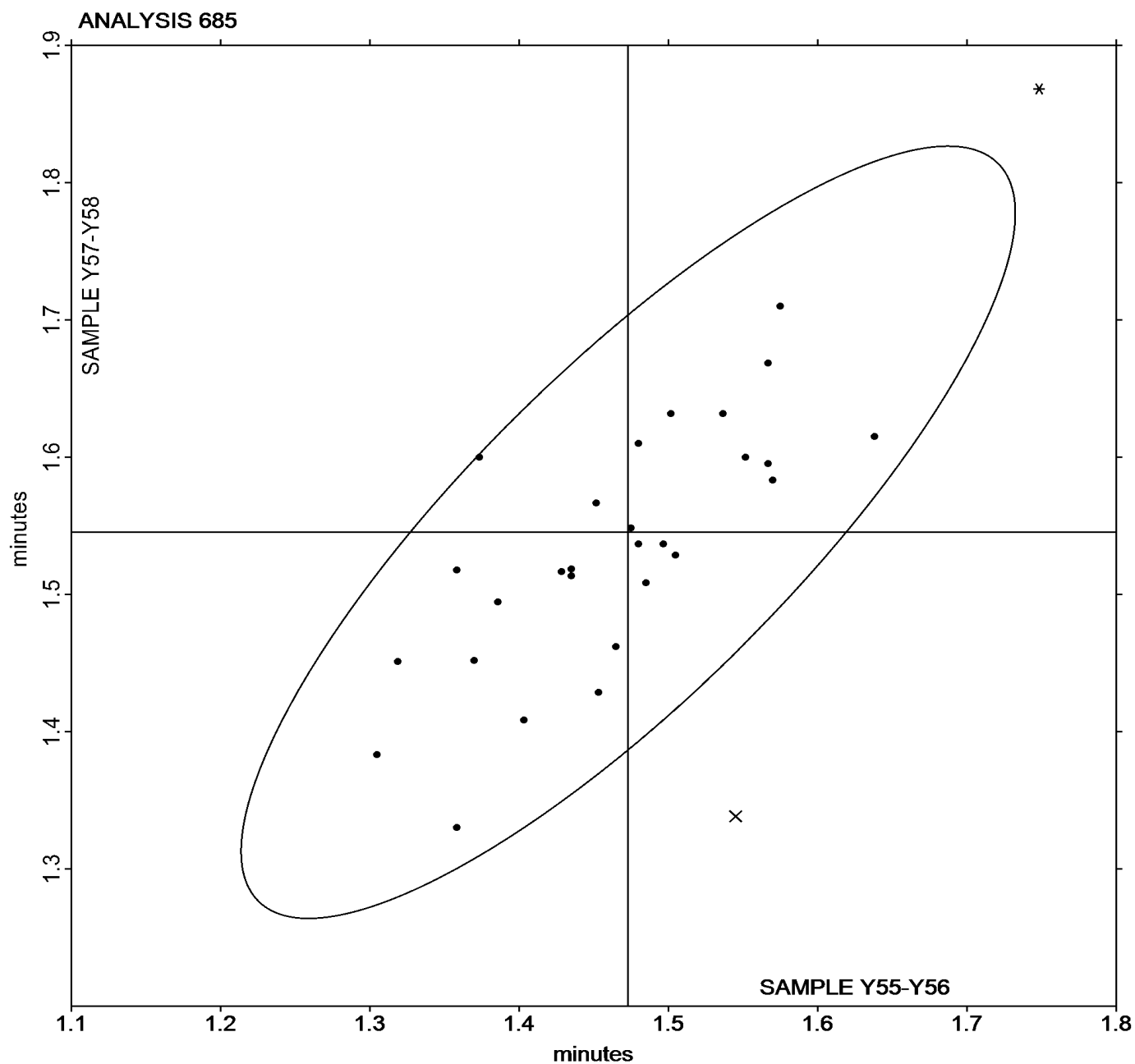


Rubber Interlaboratory Testing Program
Analysis 685
MDR Vulcanization-Scorch Time, Ts1 (minutes)

Report #225
3rd Qtr 2025

Grand Mean Sample **Y55-Y56** = 1.4730 minutes

Grand Mean Sample **Y57-Y58** = 1.5453 minutes





Rubber Interlaboratory Testing Program

Analysis 686

Report #225

3rd Qtr 2025

MDR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
23G76W		2.808	0.075	0.73	3.435	0.050	0.33	ME
2U3JWT		2.737	0.003	0.03	3.387	0.002	0.01	MC
2YWDUU		2.673	-0.060	-0.59	3.516	0.131	0.87	MC
324VRQ		2.670	-0.063	-0.62	3.290	-0.095	-0.62	ME
4MFHJM		2.710	-0.023	-0.23	3.483	0.099	0.65	ME
62RDCP		2.931	0.198	1.93	3.486	0.101	0.67	MC
6UBV3M		2.815	0.082	0.80	3.377	-0.008	-0.05	MC
6V7D4P		2.515	-0.218	-2.13	3.260	-0.125	-0.82	MC
7FPFYN		2.671	-0.062	-0.61	3.288	-0.097	-0.64	MC
7HWV7U		2.540	-0.193	-1.89	3.243	-0.141	-0.93	ME
7PHQ9J		2.808	0.075	0.73	3.305	-0.080	-0.53	ME
9JK9KH		2.757	0.023	0.23	3.247	-0.138	-0.91	MC
AL4MNH		2.805	0.072	0.70	3.413	0.029	0.19	MC
BC94ME		2.782	0.048	0.47	3.503	0.119	0.78	ME
CWYCHN		2.980	0.247	2.41	3.633	0.249	1.64	MM
EDVLEQ		2.692	-0.042	-0.41	3.393	0.009	0.06	ME
G36PHH	X	3.515	0.782	7.63	3.213	-0.171	-1.13	XX
G7K8LK		2.753	0.020	0.20	3.370	-0.015	-0.10	XX
J4B4NE		2.788	0.055	0.54	3.567	0.182	1.20	MR
JVYUCE		2.692	-0.042	-0.41	3.562	0.177	1.17	MC
KWTVZH		2.637	-0.097	-0.94	3.215	-0.170	-1.12	XX
L8LT38		2.673	-0.060	-0.59	3.498	0.114	0.75	ME
LKVCZ3		2.820	0.087	0.85	3.368	-0.016	-0.11	MC
LNTVZF	*	2.765	0.032	0.31	3.812	0.427	2.81	XX
M38HP4	X	3.225	0.492	4.80	3.462	0.077	0.51	MM
NTWDCD		2.638	-0.095	-0.93	3.167	-0.218	-1.44	MR
NX8QUC		2.743	0.010	0.10	3.402	0.017	0.11	MC
UV24T3		2.732	-0.002	-0.02	3.357	-0.028	-0.18	ME
VKJWK6		2.838	0.105	1.02	3.137	-0.248	-1.63	MR
WVDEQX		2.673	-0.060	-0.59	3.327	-0.058	-0.38	MC
Y9U8DV		2.848	0.115	1.12	3.433	0.049	0.32	MD
YRLDJ2		2.612	-0.122	-1.19	3.367	-0.018	-0.12	MC
ZF6VGW		2.625	-0.108	-1.06	3.085	-0.300	-1.97	MC



Rubber Interlaboratory Testing Program
Analysis 686
MDR Vulcanization-Cure Time 50% (minutes)

Report #225
3rd Qtr 2025

Grand Means		Summary Statistics
	2.7333 minutes	3.3847 minutes
Std Dev Btwn Labs	0.1025 minutes	0.1517 minutes
		Statistics based on 31 of 33 reporting participants

Samples Y55-Y56: EPDM Compound & Y57-Y58: EPDM Compound

Comments on Assigned Data Flags for Test #686

G36PHH (X) - Data for sample group Y55-Y56 are high.

M38HP4 (X) - Data for sample group Y55-Y56 are high.

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MR	MonTech D-RPA 3000	XX	Instrument model not specified by lab

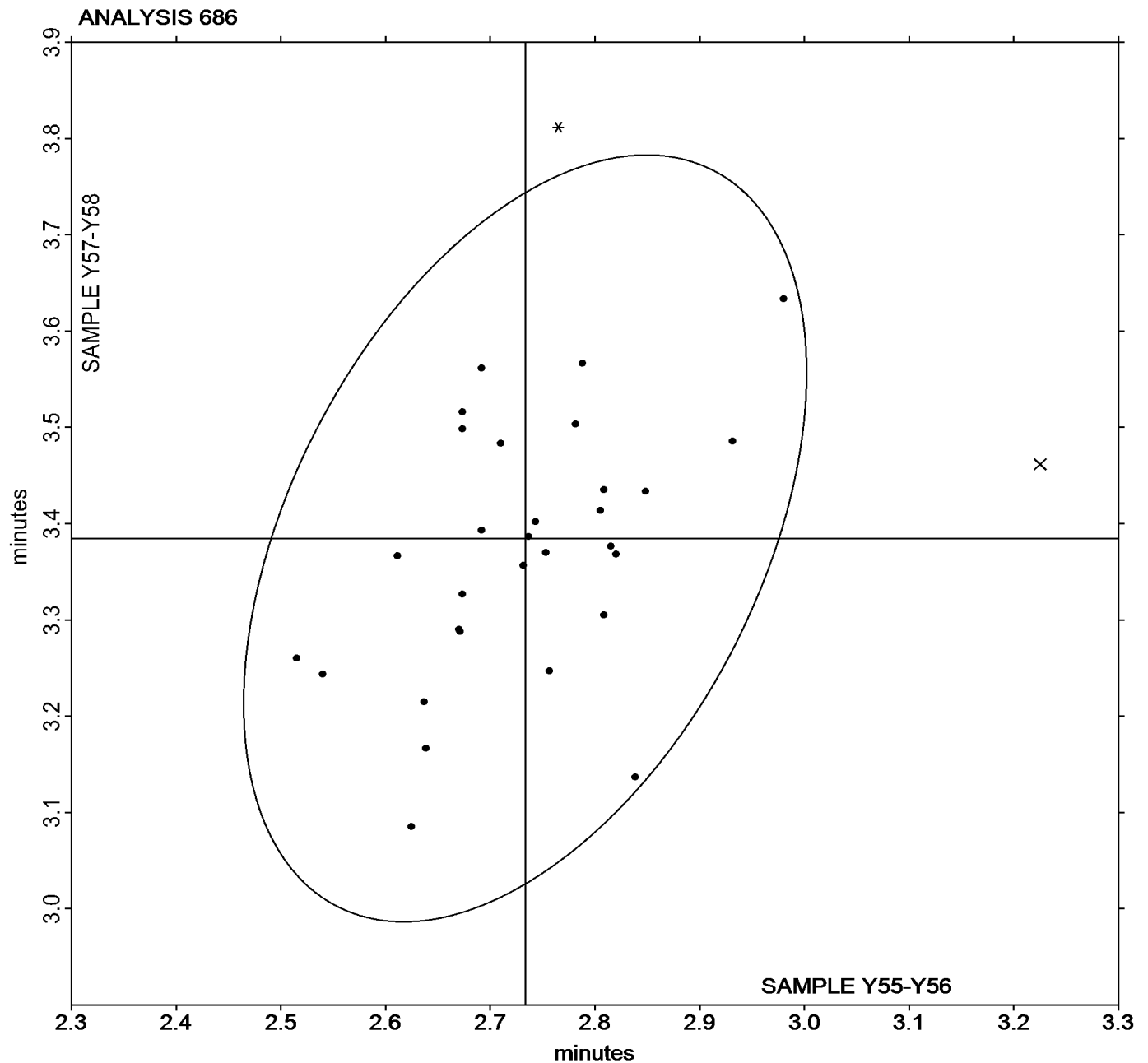


Rubber Interlaboratory Testing Program
Analysis 686
MDR Vulcanization-Cure Time 50% (minutes)

Report #225
3rd Qtr 2025

Grand Mean Sample **Y55-Y56** = 2.7333 minutes

Grand Mean Sample **Y57-Y58** = 3.3847 minutes





Rubber Interlaboratory Testing Program

Analysis 687

Report #225

3rd Qtr 2025

MDR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
23G76W		10.54	-0.21	-0.30	8.998	0.065	0.20	ME
2U3JWT		11.41	0.67	0.97	9.102	0.168	0.53	MC
2YWDUU		10.53	-0.21	-0.31	9.176	0.242	0.76	MC
324VRQ		11.56	0.81	1.18	8.720	-0.214	-0.67	ME
4MFHJM		10.36	-0.39	-0.57	9.165	0.231	0.73	ME
62RDCP		10.75	0.00	0.00	9.302	0.368	1.16	MC
6UBV3M		11.37	0.62	0.91	8.998	0.065	0.20	MC
6V7D4P		10.95	0.20	0.29	8.815	-0.119	-0.37	MC
7FPFYN		10.89	0.14	0.20	8.743	-0.191	-0.60	MC
7HWV7U		9.83	-0.92	-1.34	8.557	-0.377	-1.18	ME
7PHQ9J		11.07	0.32	0.47	8.923	-0.010	-0.03	MC
9JK9KH		11.37	0.62	0.91	8.833	-0.100	-0.32	MC
AL4MNH		10.82	0.07	0.10	9.158	0.225	0.70	MC
BC94ME		11.06	0.31	0.45	9.160	0.226	0.71	ME
CWYCHN		11.23	0.48	0.70	9.488	0.555	1.74	MM
EDVLEQ		9.48	-1.26	-1.85	8.900	-0.034	-0.11	ME
G36PHH		9.09	-1.66	-2.43	8.927	-0.007	-0.02	XX
G7K8LK		9.57	-1.18	-1.72	9.088	0.155	0.48	XX
J4B4NE		10.50	-0.25	-0.37	9.158	0.225	0.70	MR
JVYUCE		10.26	-0.49	-0.71	9.525	0.591	1.86	MC
KWTVZH		10.36	-0.39	-0.56	8.498	-0.435	-1.37	XX
L8LT38		10.25	-0.50	-0.73	9.185	0.251	0.79	ME
LKVCZ3		12.01	1.26	1.84	8.855	-0.079	-0.25	MC
LNTVZF		11.51	0.76	1.11	9.272	0.338	1.06	XX
M38HP4		11.81	1.06	1.55	8.782	-0.152	-0.48	MM
NTWDCD	*	10.51	-0.24	-0.35	8.113	-0.820	-2.57	MR
NX8QUC		11.09	0.34	0.50	8.917	-0.017	-0.05	MC
UV24T3		10.95	0.20	0.29	8.902	-0.032	-0.10	ME
VKJWK6	*	11.14	0.39	0.57	8.063	-0.870	-2.73	MR
WVDEQX		10.20	-0.55	-0.80	8.832	-0.102	-0.32	MC
Y9U8DV		11.35	0.61	0.88	8.808	-0.125	-0.39	MD
YRLDJ2		9.89	-0.86	-1.25	9.045	0.111	0.35	MC
ZF6VGW		11.00	0.25	0.37	8.807	-0.127	-0.40	XX



Rubber Interlaboratory Testing Program
Analysis 687
MDR Vulcanization-Cure Time 90% (minutes)

Report #225
3rd Qtr 2025

Grand Means		Summary Statistics
	10.748 minutes	8.9338 minutes
Stnd Dev Btwn Labs	0.685 minutes	0.3187 minutes
		Statistics based on 33 of 33 reporting participants

Samples Y55-Y56: EPDM Compound & Y57-Y58: EPDM Compound

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MR	MonTech D-RPA 3000	XX	Instrument model not specified by lab

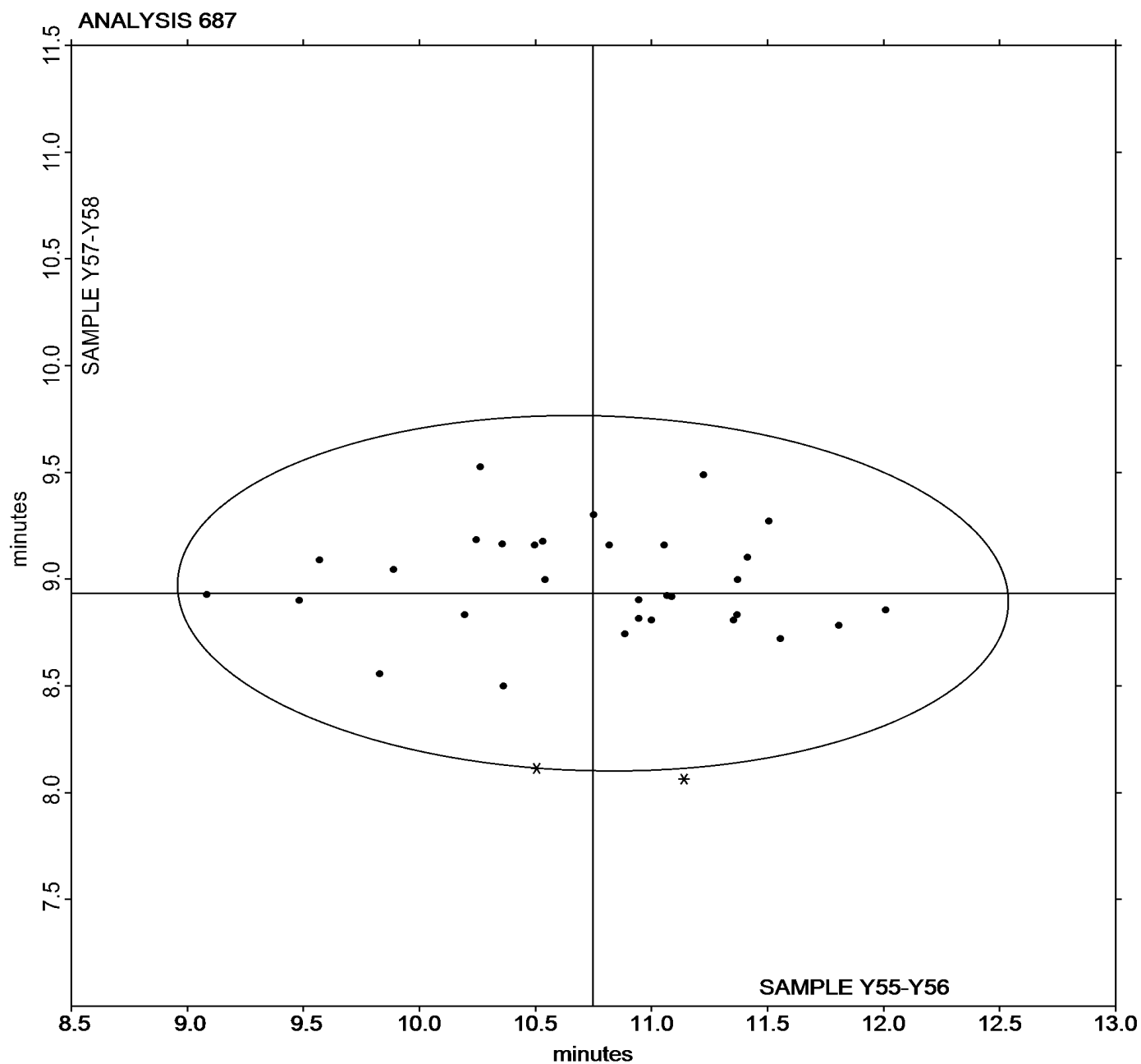


Rubber Interlaboratory Testing Program
Analysis 687
MDR Vulcanization-Cure Time 90% (minutes)

Report #225
3rd Qtr 2025

Grand Mean Sample **Y55-Y56** = 10.748 minutes

Grand Mean Sample **Y57-Y58** = 8.9338 minutes





Rubber Interlaboratory Testing Program

Analysis 688

Report #225

3rd Qtr 2025

MDR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
23G76W		3.355	0.311	1.71	1.185	0.087	1.67	ME
2U3JWT		3.050	0.006	0.03	1.078	-0.020	-0.38	MC
2YWDUU		2.888	-0.156	-0.86	1.092	-0.007	-0.13	MC
324VRQ	*	2.608	-0.436	-2.40	1.050	-0.048	-0.92	ME
4MFHJM		3.213	0.169	0.93	1.152	0.054	1.04	ME
62RDCP		3.157	0.113	0.62	1.135	0.037	0.71	MC
6UBV3M		3.175	0.131	0.72	1.132	0.034	0.65	MC
6V7D4P	X	2.267	-0.777	-4.27	0.993	-0.105	-2.01	MC
7FPFYN		3.020	-0.024	-0.13	1.140	0.042	0.81	MC
7HWV7U		2.990	-0.054	-0.30	1.095	-0.003	-0.06	ME
7PHQ9J		3.127	0.083	0.45	1.130	0.032	0.61	ME
9JK9KH		3.070	0.026	0.14	1.185	0.087	1.67	MC
AL4MNH		3.291	0.247	1.36	1.180	0.082	1.58	MC
BC94ME		3.218	0.174	0.96	1.112	0.014	0.26	ME
CWYCHN		2.820	-0.224	-1.23	0.978	-0.120	-2.30	MM
EDVLEQ		3.103	0.059	0.33	1.075	-0.023	-0.44	ME
G36PHH	X	1.193	-1.851	-10.17	1.303	0.205	3.95	XX
G7K8LK		2.795	-0.249	-1.37	1.038	-0.060	-1.15	MM
J4B4NE		2.967	-0.077	-0.42	1.030	-0.068	-1.31	MR
JVYUCE		2.938	-0.106	-0.58	1.057	-0.041	-0.80	MC
KWTVZH	X	2.908	-0.136	-0.75	0.918	-0.180	-3.46	XX
L8LT38		2.973	-0.071	-0.39	1.055	-0.043	-0.83	ME
LKVCZ3		3.025	-0.018	-0.10	1.146	0.048	0.92	MC
LNTVZF	X	3.888	0.844	4.64	1.367	0.269	5.16	XX
M38HP4		2.918	-0.126	-0.69	1.087	-0.011	-0.22	MM
NTWDCD		3.125	0.081	0.45	1.092	-0.006	-0.12	MR
NX8QUC		2.952	-0.092	-0.51	1.083	-0.015	-0.28	MC
UV24T3		3.175	0.131	0.72	1.092	-0.006	-0.12	ME
VKJWK6		2.855	-0.189	-1.04	1.045	-0.053	-1.02	MR
WVDEQX		3.358	0.314	1.73	1.137	0.039	0.74	MC
Y9U8DV		2.992	-0.052	-0.29	1.049	-0.050	-0.95	MD
YRLDJ2		2.802	-0.242	-1.33	1.052	-0.046	-0.89	MC
ZF6VGW		3.315	0.271	1.49	1.165	0.067	1.29	MC



Rubber Interlaboratory Testing Program
Analysis 688
MDR Vulcanization: Minimum Torque (lbf.in)

Report #225
3rd Qtr 2025

Grand Means		Summary Statistics
	3.0440 lbf.in	1.0981 lbf.in
Std Dev Btwn Labs	0.1820 lbf.in	0.0520 lbf.in
		Statistics based on 29 of 33 reporting participants

Grand Means		Summary Statistics in SI Units
	3.4392 dN.m	1.2407 dN.m
Std Dev Btwn Labs	0.2056 dN.m	0.0588 dN.m
		Statistics based on 29 of 33 reporting participants

Samples Y55-Y56: EPDM Compound & Y57-Y58: EPDM Compound

Comments on Assigned Data Flags for Test #688

6V7D4P (X) - Data for sample group Y55-Y56 are low. Inconsistent within the determinations of sample group Y55-Y56.

G36PHH (X) - Data for sample group Y55-Y56 are low. Data for sample group Y57-Y58 are high.

KWTVZH (X) - Data for sample group Y57-Y58 are low. Inconsistent within the determinations of sample group Y57-Y58.

LNTVZF (X) - Data for all samples are high.

Key to Instrument Codes Reported by Participants			
MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MR	MonTech D-RPA 3000	XX	Instrument model not specified by lab

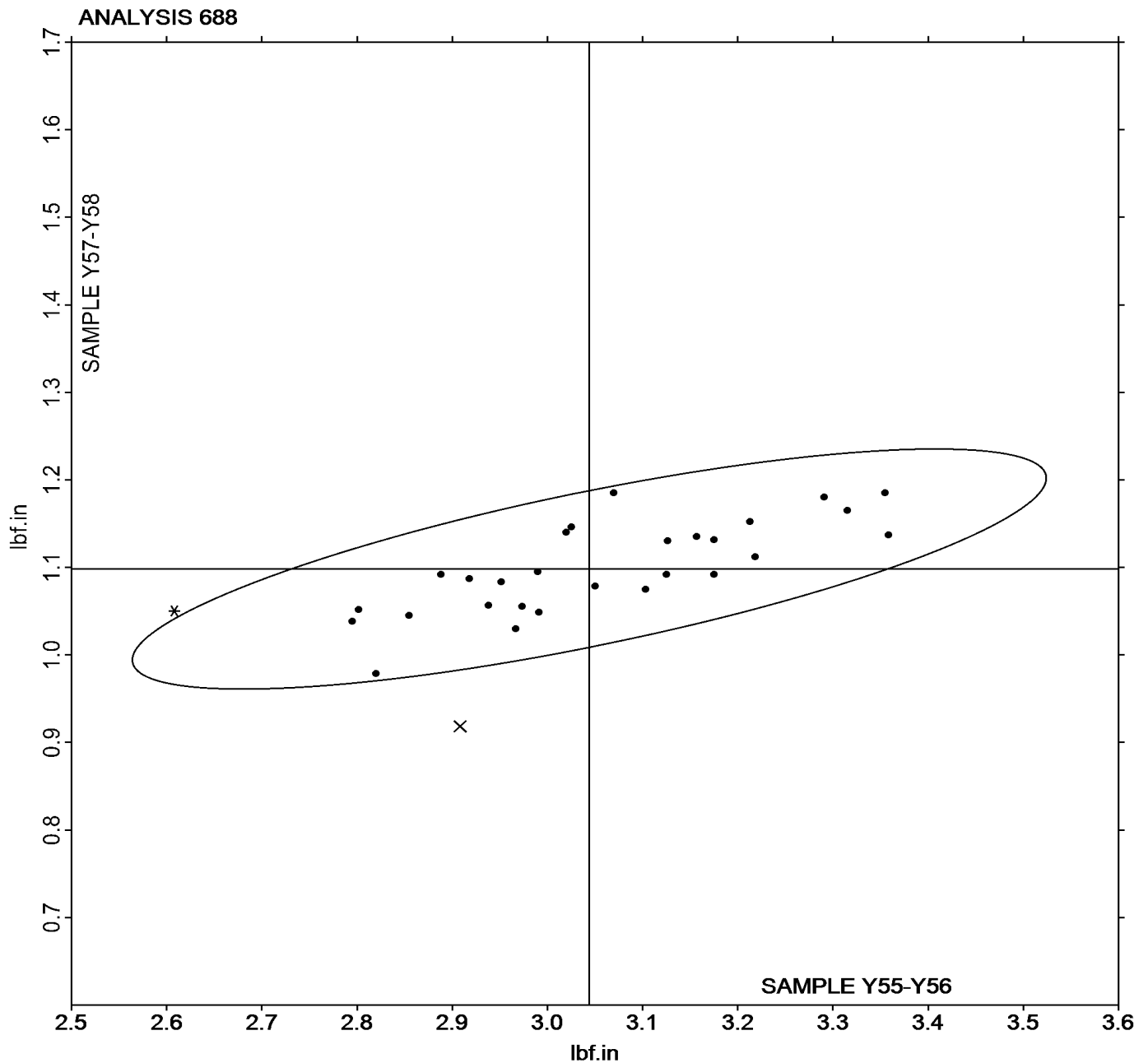


Rubber Interlaboratory Testing Program
Analysis 688
MDR Vulcanization: Minimum Torque (lbf.in)

Report #225
3rd Qtr 2025

Grand Mean Sample **Y55-Y56** = 3.0440 lbf.in

Grand Mean Sample **Y57-Y58** = 1.0981 lbf.in





Rubber Interlaboratory Testing Program

Analysis 689

Report #225

3rd Qtr 2025

MDR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample Y55-Y56			Sample Y57-Y58			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
23G76W		14.27	1.40	1.89	12.43	0.83	1.01	ME
2U3JWT		12.67	-0.21	-0.28	11.67	0.07	0.08	MC
2YWDUU		11.87	-1.01	-1.36	11.74	0.13	0.16	MC
324VRQ		13.47	0.60	0.80	11.56	-0.04	-0.05	ME
4MFHJM		13.33	0.46	0.62	11.46	-0.14	-0.17	ME
62RDCP		13.07	0.20	0.26	11.39	-0.22	-0.27	MC
6UBV3M		13.31	0.43	0.58	11.60	-0.01	-0.01	MC
6V7D4P		12.67	-0.20	-0.27	10.71	-0.89	-1.09	MC
7FPFYN		13.45	0.58	0.78	11.86	0.26	0.32	MC
7HWV7U		12.05	-0.83	-1.12	11.10	-0.51	-0.62	ME
7PHQ9J		13.33	0.45	0.61	11.45	-0.16	-0.19	ME
9JK9KH		14.46	1.59	2.15	12.30	0.70	0.85	MC
AL4MNH		13.19	0.32	0.43	11.63	0.03	0.03	MC
BC94ME	*	12.03	-0.85	-1.15	13.39	1.79	2.18	ME
CWYCHN		12.04	-0.83	-1.12	10.49	-1.11	-1.36	MM
EDVLEQ		12.46	-0.41	-0.56	11.21	-0.40	-0.49	ME
G36PHH	*	12.06	-0.82	-1.10	13.30	1.69	2.06	XX
G7K8LK		11.97	-0.91	-1.23	10.00	-1.60	-1.95	MM
J4B4NE		13.56	0.68	0.92	11.52	-0.09	-0.10	MR
JVYUCE		12.40	-0.48	-0.65	11.56	-0.04	-0.05	MC
KWTVZH		12.16	-0.71	-0.96	11.31	-0.29	-0.36	XX
L8LT38		11.76	-1.12	-1.51	11.43	-0.18	-0.22	ME
LKVCZ3		13.18	0.31	0.42	11.78	0.18	0.22	MC
LNTVZF	*	13.56	0.68	0.92	13.93	2.33	2.84	XX
M38HP4		12.32	-0.56	-0.76	10.59	-1.02	-1.24	MM
NTWDCD		12.43	-0.44	-0.60	11.44	-0.17	-0.21	MR
NX8QUC		12.83	-0.05	-0.06	11.44	-0.16	-0.20	MC
UV24T3		13.58	0.71	0.95	11.82	0.22	0.27	ME
VKJWK6		12.93	0.06	0.08	10.78	-0.83	-1.01	MR
WVDEQX		13.65	0.78	1.05	12.16	0.55	0.67	MC
Y9U8DV		12.75	-0.13	-0.17	10.76	-0.84	-1.03	MD
YRLDJ2		12.01	-0.87	-1.17	11.00	-0.61	-0.74	MC
ZF6VGW		14.04	1.17	1.58	12.16	0.55	0.67	MC



Rubber Interlaboratory Testing Program
Analysis 689
MDR Vulcanization: Maximum Torque (lbf.in)

Report #225
3rd Qtr 2025

Summary Statistics		
Grand Means	12.874 lbf.in	11.604 lbf.in
Std Dev Btwn Labs	0.740 lbf.in	0.820 lbf.in
Statistics based on 33 of 33 reporting participants		

Summary Statistics in SI Units		
Grand Means	14.546 dN.m	13.111 dN.m
Std Dev Btwn Labs	0.836 dN.m	0.926 dN.m
Statistics based on 33 of 33 reporting participants		

Samples Y55-Y56: EPDM Compound & Y57-Y58: EPDM Compound

Key to Instrument Codes Reported by Participants			
MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MR	MonTech D-RPA 3000	XX	Instrument model not specified by lab

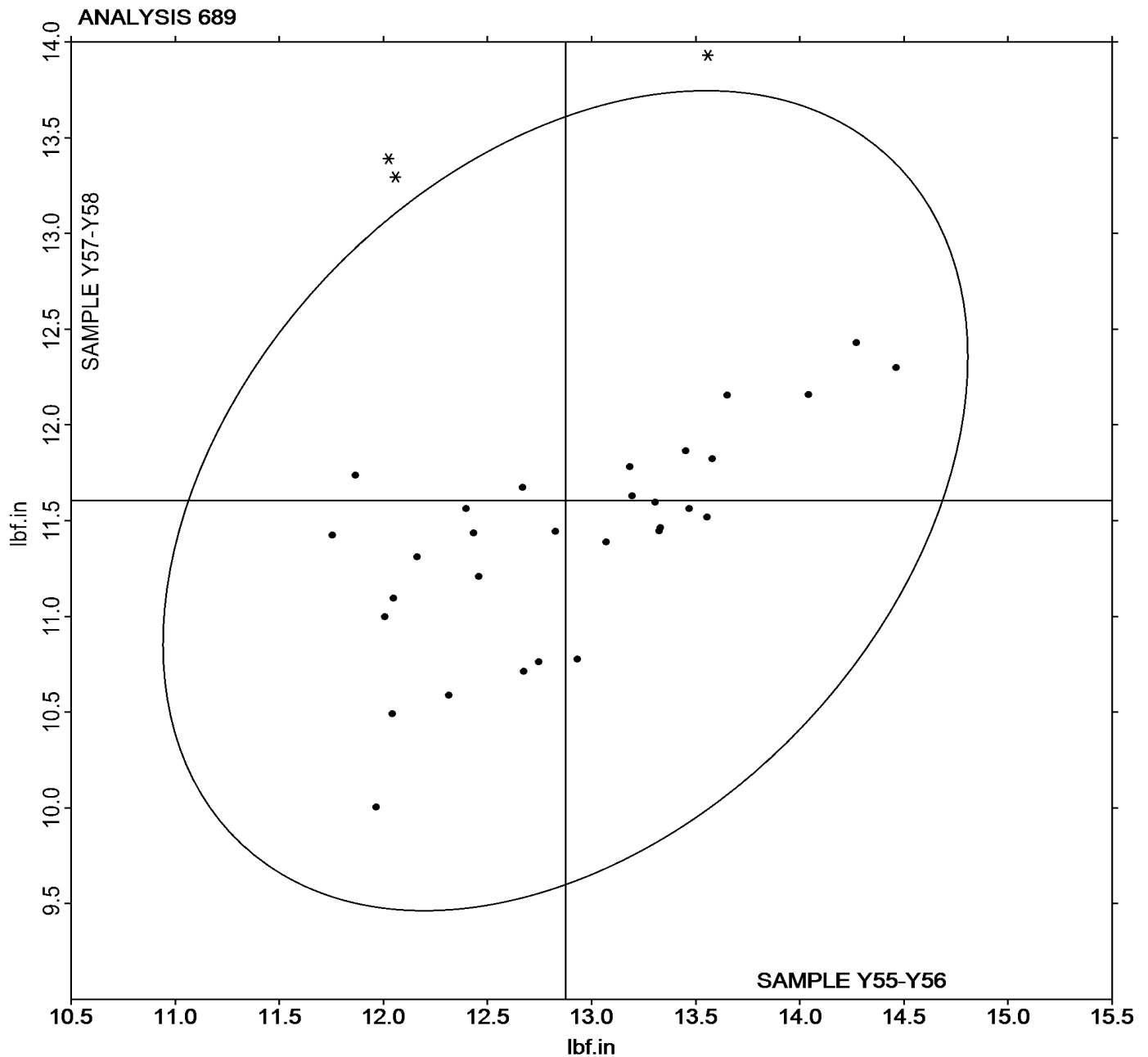


Rubber Interlaboratory Testing Program
Analysis 689
MDR Vulcanization: Maximum Torque (lbf.in)

Report #225
3rd Qtr 2025

Grand Mean Sample **Y55-Y56** = 12.874 lbf.in

Grand Mean Sample **Y57-Y58** = 11.604 lbf.in





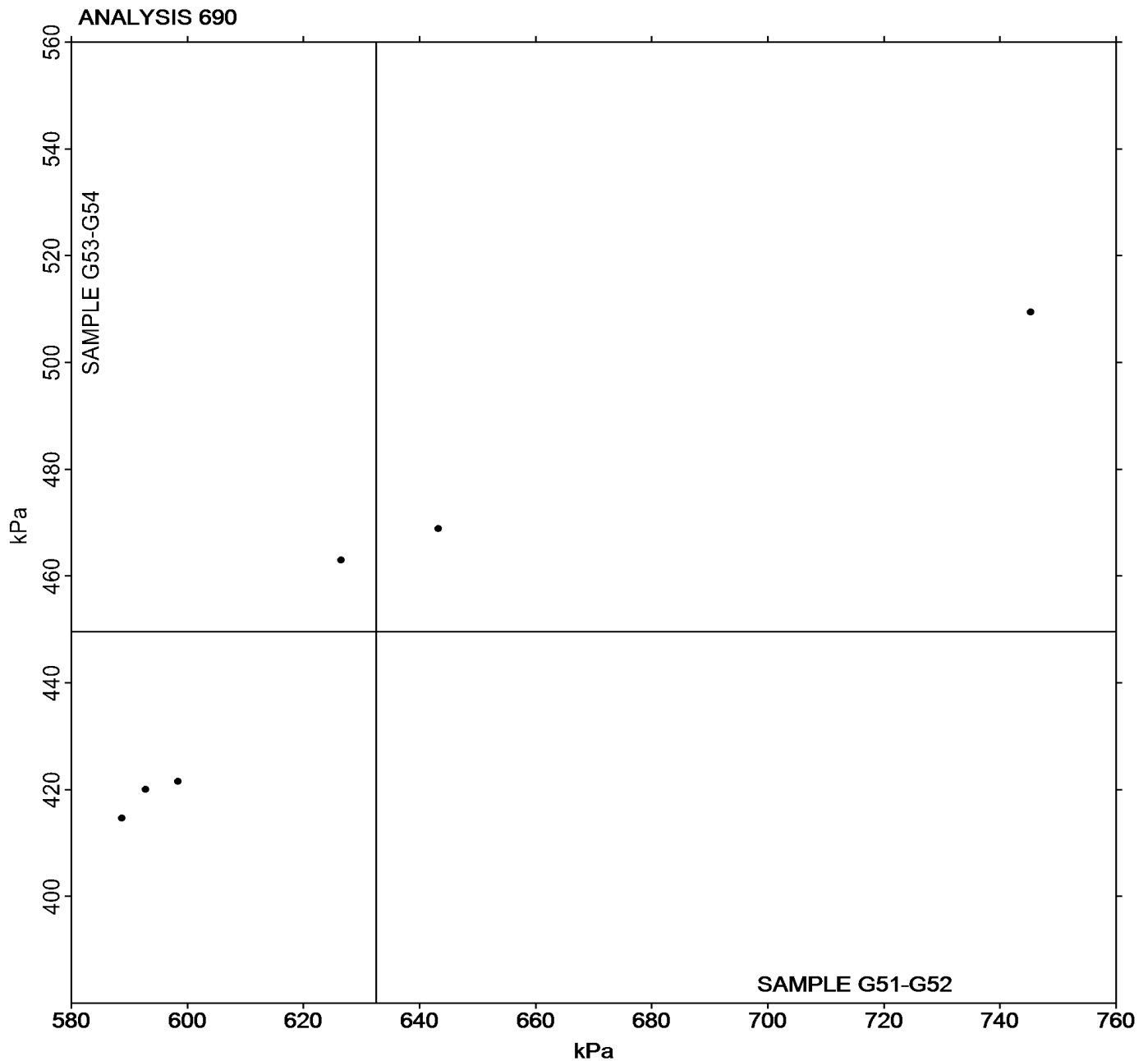
Rubber Interlaboratory Testing Program
Analysis 690
RPA Rheological Properties: Part A - G' at 20Hz (kPa)

Report #225

3rd Qtr 2025

Grand Mean Sample **G51-G52** = 632.51 kPa

Grand Mean Sample **G53-G54** = 449.55 kPa



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



Rubber Interlaboratory Testing Program
Analysis 691
RPA Rheological Properties: Part A - G'' at 20Hz (kPa)

Report #225
3rd Qtr 2025

WebCode	Data Flag	Sample G51-G52			Sample G53-G54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2YWDUU		213.4	-16.5	-0.60	217.9	-18.2	-1.30	RP
6UBV3M		253.1	23.1	0.84	241.8	5.6	0.40	PR
LCZ9UK		270.8	40.8	1.49	259.5	23.4	1.66	XX
LKVCZ3		233.1	3.1	0.11	228.3	-7.8	-0.56	RP
UV24T3		203.6	-26.4	-0.96	231.9	-4.3	-0.30	RP
Y9U8DV		205.8	-24.2	-0.88	237.5	1.3	0.10	RP

Grand Means		Summary Statistics	
	229.96 kPa		236.16 kPa
Std Dev Btwn Labs	27.43 kPa		14.08 kPa
Statistics based on 6 of 6 reporting participants			

Samples G51-G52: EPDM Compound & G53-G54: EPDM Compound

Key to Instrument Codes Reported by Participants

PR PRPA 2000 RP RPA 2000
XX Instrument model not specified by lab

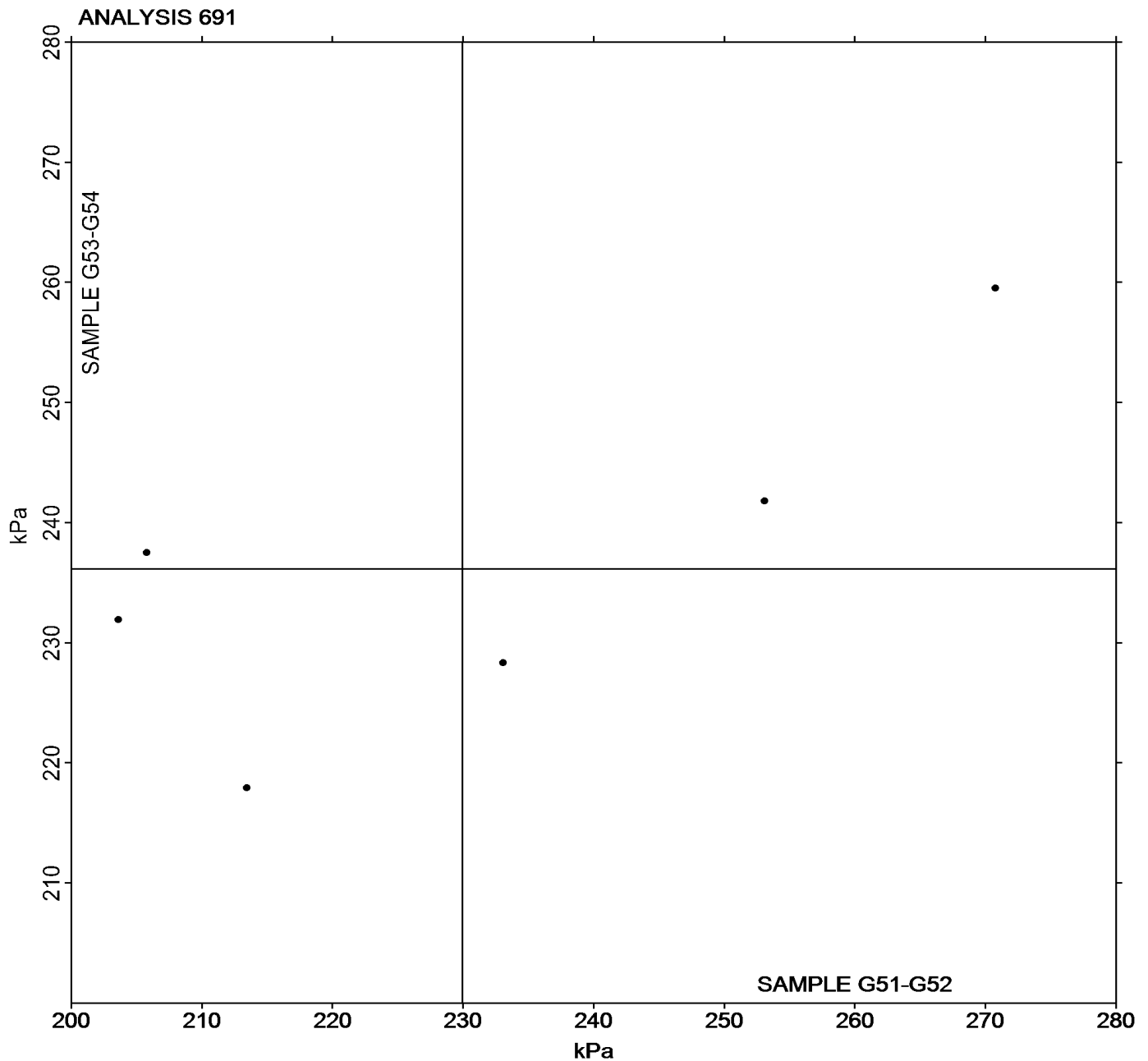


Rubber Interlaboratory Testing Program
Analysis 691
RPA Rheological Properties: Part A - G'' at 20Hz (kPa)

Report #225
3rd Qtr 2025

Grand Mean Sample **G51-G52** = 229.96 kPa

Grand Mean Sample **G53-G54** = 236.16 kPa



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



Rubber Interlaboratory Testing Program
Analysis 695
RPA Rheological Properties: Part B - G' at 1.0Hz (kPa)

Report #225
3rd Qtr 2025

WebCode	Data Flag	Sample G51-G52			Sample G53-G54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2YWDUU		81.99	-7.87	-0.81	46.77	-6.06	-1.71	RP
6UBV3M		87.97	-1.90	-0.20	51.88	-0.94	-0.27	PR
LCZ9UK		86.43	-3.43	-0.35	52.53	-0.30	-0.08	XX
LKVCZ3		79.43	-10.44	-1.08	53.42	0.60	0.17	RP
UV24T3		100.04	10.18	1.05	55.16	2.33	0.66	RP
Y9U8DV		103.34	13.47	1.39	57.20	4.37	1.24	RP

Summary Statistics			
Grand Means	89.867 kPa	52.826 kPa	
Std Dev Btwn Labs	9.709 kPa	3.536 kPa	
Statistics based on 6 of 6 reporting participants			

Samples G51-G52: EPDM Compound & G53-G54: EPDM Compound

Key to Instrument Codes Reported by Participants

PR PRPA 2000 RP RPA 2000
XX Instrument model not specified by lab

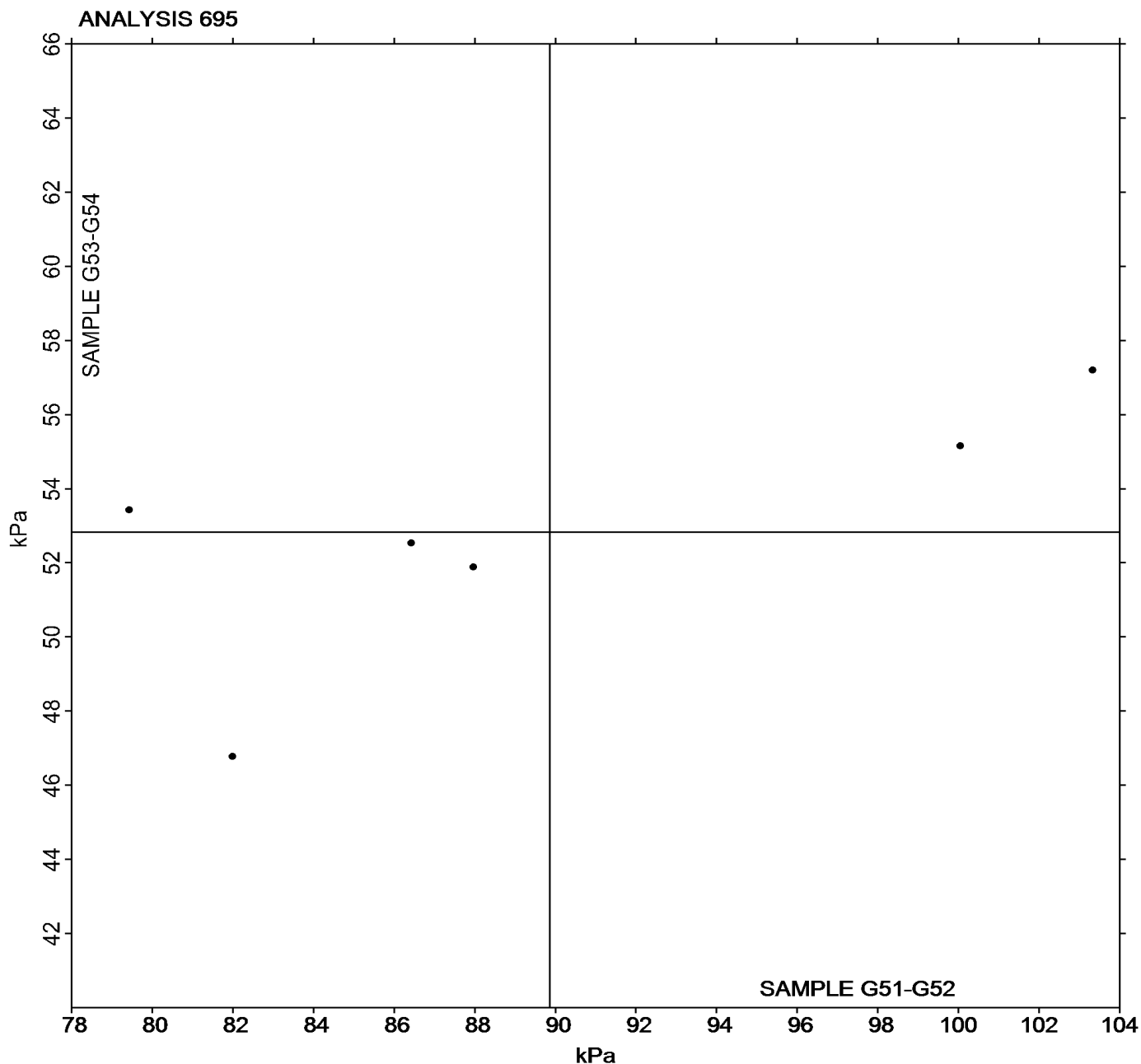


Rubber Interlaboratory Testing Program
Analysis 695
RPA Rheological Properties: Part B - G' at 1.0Hz (kPa)

Report #225
3rd Qtr 2025

Grand Mean Sample **G51-G52** = 89.867 kPa

Grand Mean Sample **G53-G54** = 52.826 kPa



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



Rubber Interlaboratory Testing Program

Report #225

Analysis 696

3rd Qtr 2025

RPA Rheological Properties: Part B - G'' at 1.0Hz (kPa)

WebCode	Data Flag	Sample G51-G52			Sample G53-G54			Instr Code
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	
2YWDUU		88.58	-5.81	-1.17	64.52	-6.74	-1.27	RP
6UBV3M		88.41	-5.99	-1.21	65.98	-5.28	-1.00	PR
LCZ9UK		98.57	4.18	0.84	73.90	2.64	0.50	XX
LKVCZ3		93.71	-0.68	-0.14	69.91	-1.35	-0.26	RP
UV24T3		98.01	3.61	0.73	76.44	5.18	0.98	RP
Y9U8DV		99.07	4.68	0.95	76.82	5.56	1.05	RP

Summary Statistics			
Grand Means	94.391 kPa	71.259 kPa	
Std Dev Btwn Labs	4.950 kPa	5.288 kPa	
Statistics based on 6 of 6 reporting participants			

Samples G51-G52: EPDM Compound & G53-G54: EPDM Compound

Key to Instrument Codes Reported by Participants

PR	PRPA 2000	RP	RPA 2000
XX	Instrument model not specified by lab		



Rubber Interlaboratory Testing Program

Report #225

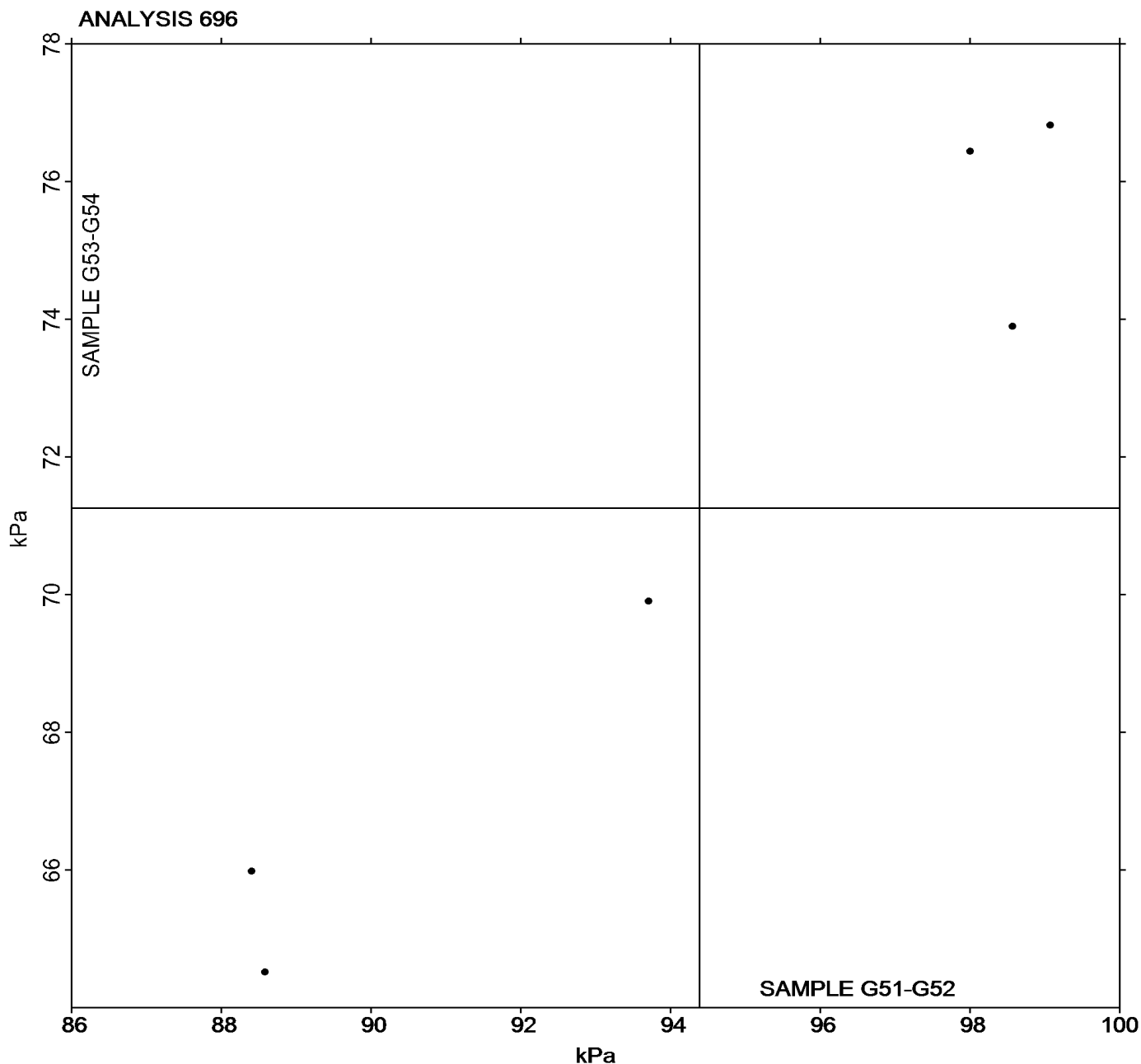
Analysis 696

3rd Qtr 2025

RPA Rheological Properties: Part B - G'' at 1.0Hz (kPa)

Grand Mean Sample **G51-G52** = 94.391 kPa

Grand Mean Sample **G53-G54** = 71.259 kPa



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

-End of Report-