

Project #: 115881
 Customer: K.C. SEALS, INC.
 Compound: 90 DURO HNBR (SM)
 Chemist: CorrigDM
 Order #: 115881-14(2)

 spec attached
 Lab Batch 10/8/21 JZ

 Cure Slab 10 Min. @ 350 °F
 Cure Button 30 Min. @ 350 °F

D412-16 Original Physicals

	SPEC	RESULT
Tensile.....	3000 PSI MIN	4541 PSI
Elongation.....	125% MIN	168%
Mod @ 100%.....	2000 PSI MIN	2523 PSI
Mod @ 50%.....	800 PSI MIN	1046 PSI
Durometer Shore A.....	90 +/-5 PT	87 PT

**D624-00(2020) Tear Die
C**

	SPEC	RESULT
TStrength.....		303 LBF/IN

**D573-04(2019) Heat Aging in Air
70 Hrs. @ 150 °C**

	SPEC	RESULT
Tensile.....		
Tensile % Change.....	+/-15%	-14%
Elongation % Change.....	-40% MAX	-21%
Durometer Shore A.....		
Durometer Change.....	10 PT MAX	4 PT

**D395-18 Compression Set
22 Hrs. @ 150 °C**

	SPEC	RESULT
Thickness Change (C/S).....		
Thickness % Change.....	60% MAX	14.0%

**D395-18 Compression Set
70 Hrs. @ 150 °C**

	SPEC	RESULT
Thickness Change (C/S).....		
Thickness % Change.....	80% MAX	18.9%

**D395-18 Compression Set
168 Hrs. @ 150 °C**

	SPEC	RESULT
Thickness Change (C/S).....		
Thickness % Change.....	90% MAX	29.6%

**D471-16a Immersion
in IRM 901 - 70 Hrs. @ 150 °C**

	SPEC	RESULT
Tensile.....		
Tensile % Change.....	20% MAX	0%
Elongation % Change.....	-30% MIN	-11%



Durometer Shore A.....		
Durometer Change.....	-5 PT MAX	1 PT
Volume Change.....		
Volume % Change.....	15% MAX	-2.9%

D471-16a Immersion

in IRM 903 - 70 Hrs. @ 150 °C

	SPEC	RESULT
Tensile.....		
Tensile % Change.....	20% MAX	-5%
Elongation % Change.....	-20% MAX	1%
Durometer Shore A.....		
Durometer Change.....	-15 PT MAX	-8 PT
Volume Change.....		
Volume % Change.....	20% MAX	9.7%

The results herein relate only to the items tested or sampled.
 This report shall not be reproduced except in full without approval of the laboratory.

Technician:  Date: 10-22-21
 Approved by:  Date: 10-23-21
 Technical Director

END OF REPORT