

## Material Test Report

**Compound #: C70101**

**Chloroprene (Neoprene), General Purpose**

### Material Summary

Material:	Chloroprene (Neoprene)	
Durometer:	70	
Color:	Black	
Special Properties:	-	
Recommended Temperature Range (Static):	-40°C to 121°C	
Specification:	M3BC710 A14 B14 EO14 EO34 F17	
<b>ORIGINAL PROPERTIES</b>	<b>ASTM D2000 REQUIREMENT</b>	<b>TYPICAL RESULTS</b>
Hardness, Shore A, pts, ASTM D2240-15	70±5	72.6
Tensile Strength, psi, min, ASTM D412-15a	1450 (min)	2551
Elongation, min, %, ASTM D412-15a	250 (min)	266
Modulus @ 100%, psi, ASTM D412-15a		763
Specific Gravity, (g/cm <sup>3</sup> )		1.34
<b>HEAT AGE, A14 (70 hrs. @ 100°C)</b>	<b>ASTM D2000 REQUIREMENT</b>	<b>TYPICAL RESULTS</b>
Hardness Change, pts, Shore A, ASTM D573-04	+15(max)	+11
Tensile Strength Change, %, ASTM D573-04	-15(max)	-5
Elongation Change, %, ASTM D573-04	-40(max)	-16
Weight Change, %		-4.4
<b>COMPRESSION SET, B14 (22 hrs. @ 100°C)</b>	<b>ASTM D2000 REQUIREMENT</b>	<b>TYPICAL RESULTS</b>
ASTM D395-16, Method B	35%(button)(max)	19.6
<b>IRM 901 OIL, EO14 (70 hrs. @ 100°C)</b>	<b>ASTM D2000 REQUIREMENT</b>	<b>TYPICAL RESULTS</b>
Hardness Change, pts, Shore A, ASTM D471-16a	±10	+2
Tensile Strength Change, %, ASTM D471-16a	-30(max)	-7
Elongation Change, %, ASTM D471-16a	-30(max)	-21
Volume Change, %, ASTM D471-16a	-10~+15	-2.6
<b>IRM 903 OIL, EO34 (70 hrs. @ 100°C)</b>	<b>ASTM D2000 REQUIREMENT</b>	<b>TYPICAL RESULTS</b>
Hardness Change, pts, Shore A, ASTM D471-16a		-19
Tensile Strength Change, %, ASTM D471-16a	-60(max)	-34
Elongation Change, %, ASTM D471-16a	-50(max)	-40
Volume Change, %, ASTM D471-16a	+100(max)	+43.1



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LOW TEMP BRITTLNESS POINT TEST, F17	ASTM D2000 REQUIREMENT	TYPICAL RESULTS
ASTM D2137-05, Method A		
Sample type: T-50		
Coolant: Isopropyl alcohol		
Brittleness temperature to nearest 1°C	no crack	pass

\*American Society for Testing and Materials

Report Date: 9/1/2020

Information within this report is believed to be accurate and reliable. However, Global O-Ring and Seal makes no warranty, expressed or implied, that parts supplied in this material will perform satisfactorily in specific applications. It's the customer's responsibility to evaluate prior to use.