GLOBAL O-RING and SEAL
ALL-AROUND BETTER

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Material Test Report

Compound C70-F101 — Chloroprene (Neoprene), General Purpose

Material Summary		
Material Type:	Chloroprene (Neoprene)	
Durometer:	70	
Color:	Black	
Special Properties:	-	
Recommended Temperature Range (Static):	-40°C (-40°F) to 121°C (249.8°F)	
Meets Specification:	ASTM D2000 M3BC710 A14 B14 EO14 EO34 F17	
Original Properties	**Requirements**	**Typical Results**
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/cm³)		1.34
HEAT AGE, A14 (70 hrs. @ 100°C)	**Requirements**	**Typical Results**
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
COMPRESSION SET, B14 (22 hrs. @ 100°C)	**Requirements**	**Typical Results**
ASTM D395-16, Method B	35%(button)(max)	19.6
IRM 901 OIL, EO14 (70 hrs. @ 100°C)	**Requirements**	**Typical Results**
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
IRM 903 OIL, EO34 (70 hrs. @ 100°C)	**Requirements**	**Typical Results**
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 BRITTLENESS POINT TEST, F17	Requirements	Typical Results
ASTM D2137-05, Method A		
Sample type: T-50		
Coolant: Isopropyl alcohol		
Brittleness temperature to nearest 1°C	no crack	pass

Compound Previously Known As: C70101

Report Date: 9/1/2020