



MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	C70-B101	MATERIAL	Neoprene
DUROMETER	70 Shore A	COLOR	Black
DESIGNATION	General Purpose	REPORT DATE	2019-12-09
TEMP RANGE	-40°C (-40°F) to 100°C (212°F)	CURE SYSTEM	Metal-oxide
SPECIFICATION	ASTM D2000 M3BC707 A14 B14 EO14 EO34 F17		

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness (Shore A)	D2240-15	-	Shore A	68	70 ±5
Tensile Strength	D412-16	-	MPa (PSI)	13.4 (1,941)	7 (1,015) min
Elongation at Break	D412-16	-	%	232	200 min
100% Modulus	D412-16	-	MPa (PSI)	5.08 (737)	-
Density	CNS5341-96, Method A	-	Mg/m ³	1.46	-

A14 – HEAT RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D573-04	70 Hrs @ 100°C (212°F)	points	3	15 max
Tensile Strength Change	D573-04	70 Hrs @ 100°C (212°F)	%	-4	-15 max
Elongation Change	D573-04	70 Hrs @ 100°C (212°F)	%	-7	-40 max
Weight Change	D573-04	70 Hrs @ 100°C (212°F)	%	-1.3	-

B14 – COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression Set	D395-16 ^{e1} , Method B	22 Hrs @ 100°C (212°F)	%	10.5	-

EO14 – FLUID RESISTANCE, IRM 901 OIL

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 100°C (212°F)	points	3	±10
Tensile Strength Change	D471-16a	70 Hrs @ 100°C (212°F)	%	1	-30 max
Elongation Change	D471-16a	70 Hrs @ 100°C (212°F)	%	-5	-30 max
Volume Change	D471-16a	70 Hrs @ 100°C (212°F)	%	-4.2	-10 to 15

EO34 – FLUID RESISTANCE, IRM 903 OIL

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 100°C (212°F)	points	-18	–
Tensile Strength Change	D471-16a	70 Hrs @ 100°C (212°F)	%	-17	-60 max
Elongation Change	D471-16a	70 Hrs @ 100°C (212°F)	%	-14	-50 max
Volume Change	D471-16a	70 Hrs @ 100°C (212°F)	%	36.7	100 max

F17 – LOW-TEMPERATURE RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Low Temperature Brittleness	D2137-11, Method C	3 minute @ -40°C (-40°F)	–	pass	pass

ADDITIONAL APPROVALS

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Data shown is based on supplier testing of compound slabs/buttons and is provided for general reference only.