



MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	N70-B701	MATERIAL	NBR
DUROMETER	70 Shore A	COLOR	Green
DESIGNATION	General Purpose	REPORT DATE	2020-10-20
TEMP RANGE	-40°C (-40°F) to 100°C (212°F)	CURE SYSTEM	-
SPECIFICATION	-		

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness (Shore A)	D2240-15	-	Shore A	71	70 ±5
Tensile Strength	D412-16	-	MPa (PSI)	11.5 (1,662)	8 (1,160) min
Elongation at Break	D412-16	-	%	349	200 min
100% Modulus	D412-16	-	MPa (PSI)	7.07 (1,025)	-
Density	CNS 5341-96,Method A	-	Mg/m ³	1.36	-

A14 – HEAT RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D573-04	70 Hrs @ 100°C (212°F)	points	3	±15
Tensile Strength Change	D573-04	70 Hrs @ 100°C (212°F)	%	1	±30
Elongation Change	D573-04	70 Hrs @ 100°C (212°F)	%	-11	-50 max
Weight Change	D573-04	70 Hrs @ 100°C (212°F)	%	-0.1	-

B14 – COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression Set	D395-18,Method B	22 Hrs @ 100°C (212°F)	%	14.2	-

EA14 – FLUID RESISTANCE, WATER RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 100°C (212°F)	points	-1	±10
Tensile Strength Change	D471-16a	70 Hrs @ 100°C (212°F)	%	-11	-
Elongation Change	D471-16a	70 Hrs @ 100°C (212°F)	%	-12	-
Volume Change	D471-16a	70 Hrs @ 100°C (212°F)	%	8.8	±15

EF11 – FLUID RESISTANCE, ASTM FUEL A RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 23°C (73°F)	points	-1	±10
Tensile Strength Change	D471-16a	70 Hrs @ 23°C (73°F)	%	-17	-25 max
Elongation Change	D471-16a	70 Hrs @ 23°C (73°F)	%	-15	-25 max
Volume Change	D471-16a	70 Hrs @ 23°C (73°F)	%	1.9	-5 to 10

EF21 – FLUID RESISTANCE, ASTM FUEL B RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 23°C (73°F)	points	-11	-30 to 0
Tensile Strength Change	D471-16a	70 Hrs @ 23°C (73°F)	%	-47	-60 max
Elongation Change	D471-16a	70 Hrs @ 23°C (73°F)	%	-48	-60 max
Volume Change	D471-16a	70 Hrs @ 23°C (73°F)	%	22.4	0 to 40

EO14 – FLUID RESISTANCE, IRM 901 OIL

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 100°C (212°F)	points	5	-5 to 10
Tensile Strength Change	D471-16a	70 Hrs @ 100°C (212°F)	%	3	-25 max
Elongation Change	D471-16a	70 Hrs @ 100°C (212°F)	%	-17	-45 max
Volume Change	D471-16a	70 Hrs @ 100°C (212°F)	%	-6.3	-10 to 5

EO34 – FLUID RESISTANCE, IRM 903 OIL

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 100°C (212°F)	points	-3	-10 to 5
Tensile Strength Change	D471-16a	70 Hrs @ 100°C (212°F)	%	-6	-45 max
Elongation Change	D471-16a	70 Hrs @ 100°C (212°F)	%	-16	-45 max
Volume Change	D471-16a	70 Hrs @ 100°C (212°F)	%	3.3	0 to 25

ADDITIONAL APPROVALS

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