MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	N70-A101	**MATERIAL**	NBR
DUROMETER	70 Shore A	**COLOR**	Black
DESIGNATION	General Purpose	**REPORT DATE**	9/3/2025
TEMP RANGE	-30°C (-22°F) to 121°C (250°F)	**CURE SYSTEM**	Sulfur
SPECIFICATION	ASTM D2000 M2BG714 A14 B14 EF11 EF21 EO14 EO34		

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness (Shore A)	D2240	–	Shore A	**66**	70 ±5
Tensile Strength	D412	–	MPa (PSI)	**17.7 (2,567)**	14 (2,031) min
Elongation at Break	D412	–	%	**263**	250 min
100% Modulus	D412	–	MPa (PSI)	**5.88 (853)**	–
Specific Gravity	D297-21	–	g/cm^3	**1.23**	–

A14 – HEAT RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D573	70h @ 100°C (212°F)	points	**4**	±15
Tensile Strength Change	D573	70h @ 100°C (212°F)	%	**14**	±30
Elongation Change	D573	70h @ 100°C (212°F)	%	**-16**	-50 max
Weight Change	D573	70h @ 100°C (212°F)	%	**-0.7**	–

B14 – COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression Set	D395,Method B	22h @ 100°C (212°F)	%	**14**	25 max

EF11 – FLUID RESISTANCE, FUEL A

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471	70h @ 23°C (73°F)	points	**-6**	±10
Tensile Strength Change	D471	70h @ 23°C (73°F)	%	**-21**	-25 max
Elongation Change	D471	70h @ 23°C (73°F)	%	**-10**	-25 max
Volume Change	D471	70h @ 23°C (73°F)	%	**3**	-5 to 10

EF21 – FLUID RESISTANCE, FUEL B

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471	70h @ 23°C (73°F)	points	**-13**	-30 to 0
Tensile Strength Change	D471	70h @ 23°C (73°F)	%	**-26**	-60 max
Elongation Change	D471	70h @ 23°C (73°F)	%	**-25**	-60 max
Volume Change	D471	70h @ 23°C (73°F)	%	**23.6**	0 to 40

EO14 – FLUID RESISTANCE, IRM 901 OIL

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471	70h @ 100°C (212°F)	points	**8**	-5 to 10
Tensile Strength Change	D471	70h @ 100°C (212°F)	%	**11**	-25 max
Elongation Change	D471	70h @ 100°C (212°F)	%	**-18**	-45 max
Volume Change	D471	70h @ 100°C (212°F)	%	**-9.6**	-10 to 5

EO34 – FLUID RESISTANCE, IRM 903 OIL

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471	70h @ 100°C (212°F)	points	**-3**	-10 to 5
Tensile Strength Change	D471	70h @ 100°C (212°F)	%	**5**	-45 max
Elongation Change	D471	70h @ 100°C (212°F)	%	**-22**	-45 max
Volume Change	D471	70h @ 100°C (212°F)	%	**11**	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.