



MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	E70-A101	MATERIAL	EPDM
DUROMETER	70 Shore A	COLOR	Black
DESIGNATION	General Purpose	REPORT DATE	2024-01-31
TEMP RANGE	-55°C (-67°F) to 125°C (257°F)	CURE SYSTEM	Peroxide
SPECIFICATION	ASTM D2000 M3DA710 A26 B36 EA14 F19 G11		

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)	15 (2,180)	10 (1,450) min
Elongation at Break	D412-16	–	%	215	200 min
100% Modulus	D412-16	–	MPa (PSI)	4.9 (711)	–
Specific Gravity	D297-21	–	g/cm ³	1.15	–

A26 – HEAT RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D865-11	70 Hrs @ 150°C (302°F)	points	3	10 max
Tensile Strength Change	D865-11	70 Hrs @ 150°C (302°F)	%	-10	-20 max
Elongation Change	D865-11	70 Hrs @ 150°C (302°F)	%	-10	-20 max
Weight Change	D865-11	70 Hrs @ 150°C (302°F)	%	0.2	–

B36 – COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression Set	D395-18, Method B	22 Hrs @ 150°C (302°F) (plied)	%	18	25 max

EA14 – FLUID RESISTANCE, WATER RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 100°C (212°F)	points	-1	–
Tensile Strength Change	D471-16a	70 Hrs @ 100°C (212°F)	%	-8	–
Elongation Change	D471-16a	70 Hrs @ 100°C (212°F)	%	0	–
Volume Change	D471-16a	70 Hrs @ 100°C (212°F)	%	2.6	±5

F19 – LOW-TEMPERATURE RESISTANCE					
PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Low Temperature Brittleness	D2137-11, Method C	3 minute @ -55°C (-67°F)	–	no-crack	–

G11 – TEAR RESISTANCE					
PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Tear Strength (Die B)	D624-00	–	kN/m (lbf/in)	25.5 (145)	17 (97) min

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