



MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	E70-C101	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 M2DA710 A26 B36 EA14 F18 G11		

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness (Shore A)	D2240 - 15	-	Shore A	70	70 ±5
Tensile Strength	D412 - 16	-	MPa (PSI)	15.5 (2,248)	10 (1,450) min
Elongation at Break	D412 - 16	-	%	215	200 min
Specific Gravity	D297-21	-	g/cm ³	1.14	-

A26 – HEAT RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D573-04(19)	70h @ 302°F (150°C)	points	3	-
Tensile Strength Change	D573-04(19)	70h @ 302°F (150°C)	%	-10	-20 max
Elongation Change	D573-04(19)	70h @ 302°F (150°C)	%	-10	-20 max

B36 – COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression Set	D395-18	22h @ 302°F (150°C)	%	18	40 max

EA14 – FLUID RESISTANCE, WATER RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	Water Resistance, 70h @ 212°F (100°C)	points	-1	-
Volume Change	D471-16a	Water Resistance, 70h @ 212°F (100°C)	%	2	±5

F18 – LOW-TEMPERATURE RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Low Temperature Brittleness	D2137-11(18)	3 min @ -58°F (-50°C)	-	Pass	-

G11 – TEAR RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Tear Strength (Die B)	D624-12	-	kN/m (lbf/in)	44 (251)	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.