



MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	E70-B108	MATERIAL	EPDM
DUROMETER	70 Shore A	COLOR	Black
DESIGNATION	UL157	REPORT DATE	2024-01-31
TEMP RANGE	-55°C (-67°F) to 150°C (302°F)	CURE SYSTEM	Peroxide
SPECIFICATION	ASTM D2000 M3DA710 A26 B36 C32 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	-	%	260	200 min
100% Modulus	D412-16	-	MPa (PSI)	4.9 (711)	-
Density	CNS 5341-96, Method A	-	Mg/m ³	1.16	-

A26 – HEAT RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D865-11	70 Hrs @ 150°C (302°F)	points	1	10 max
Tensile Strength Change	D865-11	70 Hrs @ 150°C (302°F)	%	-3	-20 max
Elongation Change	D865-11	70 Hrs @ 150°C (302°F)	%	7	-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)	%	13.8	25 max

C32 – ENVIRONMENTAL

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Ozone Resistance	D1171-99	70 Hrs @ 40°C (104°F)	-	no-crack	No crack

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	-

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
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)	-

ADDITIONAL APPROVALS

-

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