



MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	E80-B901	MATERIAL	EPDM
DUROMETER	80 Shore A	COLOR	Purple/Violet
DESIGNATION	General Purpose	REPORT DATE	2026-04-05
TEMP RANGE	-40°C (-40°F) to 100°C (212°F)	CURE SYSTEM	Sulfur
SPECIFICATION	ASTM D2000 M3BA810 A14 B13 C12 F17 Z1 Z2		

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness, (Shore A)	D2240-05	-	Shore A	80	80 ±5
Tensile Strength	D412-06a	-	MPa (PSI)	11.3 (1,642)	10 (1,450) min
Elongation at Break	D412-06a	-	%	359	150 min
100% Modulus	D412-06a	-	MPa (PSI)	5.94 (862)	-
Specific Gravity	D297	-	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	10 max
Tensile Strength Change	D573-04	70 Hrs @ 100°C (212°F)	%	-6	-25 max
Elongation Change	D573-04	70 Hrs @ 100°C (212°F)	%	-17	-25 max
Weight Change	D573-04	70 Hrs @ 100°C (212°F)	%	-1.1	-

B13 – COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression Set	D395-03,Method B	22 Hrs @ 70°C (158°F)	%	10.8	-

C12 – ENVIRONMENTAL

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Ozone Resistance	D1171-99	50 pphm,70Hrs@40°C (104°F)	-	pass	No crack

F17 – LOW-TEMPERATURE RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Low Temperature Brittleness	D2137-11, Method C	3(minute) at -40°C (-40°F)	-	pass	pass

ADDITIONAL APPROVALS

-

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