



MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	V75-B201	MATERIAL	FKM
DUROMETER	75 Shore A	COLOR	Brown
DESIGNATION	General Purpose	REPORT DATE	2025-06-23
TEMP RANGE	-25°C (-13°F) to 250°C (482°F)	CURE SYSTEM	Bisphenol
SPECIFICATION	ASTM D2000 M2HK710 A1-10 B38 EF31 EO78 Z1		

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
(Z1) Hardness (Shore A)	D2240-15, Type A	-	Shore A	74	75 ±5
Tensile Strength	D412-16, Method A	-	MPa (PSI)	14.2 (2,054)	10 (1,450) min
Elongation at Break	D412-16, Method A	-	%	190	175 min
100% Modulus	D412-16, Method A	-	MPa (PSI)	8.37 (1,214)	-
Density	CNS 5341-96, Method A	-	Mg/m ³	2.04	-

A1-10 – HEAT RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D573-04	70h @ 250°C (482°F)	points	1	10 max
Tensile Strength Change	D573-04	70h @ 250°C (482°F)	%	10	-25 max
Elongation Change	D573-04	70h @ 250°C (482°F)	%	-18	-25 max
Weight Change	D573-04	70h @ 250°C (482°F)	%	-1.8	-

B38 – COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression Set	D395-18, Method B	22h @ 200°C (392°F) (plied)	%	10.2	50 max

EF31 – FLUID RESISTANCE, ASTM FUEL C RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70h @ 23°C (73°F)	points	-3	±5
Tensile Strength Change	D471-16a	70h @ 23°C (73°F)	%	-20	-25 max
Elongation Change	D471-16a	70h @ 23°C (73°F)	%	-16	-20 max
Volume Change	D471-16a	70h @ 23°C (73°F)	%	3.8	0 to 10

E078 – FLUID RESISTANCE, ASTM NO. 101 OIL

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70h @ 200°C (392°F)	points	-5	-15 to 5
Tensile Strength Change	D471-16a	70h @ 200°C (392°F)	%	-19	-40 max
Elongation Change	D471-16a	70h @ 200°C (392°F)	%	-16	-20 max
Volume Change	D471-16a	70h @ 200°C (392°F)	%	10.3	0 to 15

ADDITIONAL APPROVALS

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