



MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	V90-B201	MATERIAL	FKM
DUROMETER	90 Shore A	COLOR	Brown
DESIGNATION	General Purpose	REPORT DATE	2024-01-16
TEMP RANGE	-25°C (-13°F) to 250°C (482°F)	CURE SYSTEM	Bisphenol
SPECIFICATION	ASTM D2000 M7HK910 A1-10 B38 EF31 EO88		

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness (Shore A)	D2240-15	-	Shore A	89	90 ±5
Tensile Strength	D412-16	-	MPa (PSI)	17 (2,471)	10 (1,450) min
Elongation at Break	D412-16	-	%	106	100 min
100% Modulus	D412-16	-	MPa (PSI)	16.4 (2,379)	-
Density	CNS 5341-96,Method A	-	Mg/m ³	2.23	-

A1-10 – HEAT RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D573-04	70 Hrs @ 250°C (482°F)	points	2	10 max
Tensile Strength Change	D573-04	70 Hrs @ 250°C (482°F)	%	-7	-25 max
Elongation Change	D573-04	70 Hrs @ 250°C (482°F)	%	-6	-25 max
Weight Change	D573-04	70 Hrs @ 250°C (482°F)	%	-2.6	-

B38 – COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression Set	D395-18,Method B	22 Hrs @ 200°C (392°F) (plied)	%	19.2	20 max

EF31 – FLUID RESISTANCE, ASTM FUEL C RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 23°C (73°F)	points	-3	±5
Tensile Strength Change	D471-16a	70 Hrs @ 23°C (73°F)	%	-6	-25 max
Elongation Change	D471-16a	70 Hrs @ 23°C (73°F)	%	-2	-20 max
Volume Change	D471-16a	70 Hrs @ 23°C (73°F)	%	3	0 to 10

EO88 – FLUID RESISTANCE, MOBIL JET OIL II

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 200°C (392°F)	points	-10	-15 to 5
Tensile Strength Change	D471-16a	70 Hrs @ 200°C (392°F)	%	-8	-40 max
Elongation Change	D471-16a	70 Hrs @ 200°C (392°F)	%	-2	-20 max
Volume Change	D471-16a	70 Hrs @ 200°C (392°F)	%	11.5	25 max

ADDITIONAL APPROVALS

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