



MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	V70-B602	MATERIAL	FKM
DUROMETER	70 Shore A	COLOR	Red
DESIGNATION	General Purpose	REPORT DATE	2021-05-26
TEMP RANGE	-25°C (-13°F) to 250°C (482°F)	CURE SYSTEM	-
SPECIFICATION	ASTM D2000 M2HK710 A1-10 B37 B38 EF31 EO78 EO88 F15 Z1		

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness (Shore A)	D2240-15 ^{E1}	-	Shore A	73	70 ±5
Tensile Strength	D412-16	-	MPa (PSI)	11 (1,591)	10 (1,450) min
Elongation at Break	D412-16	-	%	209	175 min
100% Modulus	D412-16	-	MPa (PSI)	7.15 (1,037)	-
Density	CNS 5341-96, Method A	-	Mg/m ³	2.15	-

A1-10 – HEAT RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D573-04	70 Hrs @ 250°C (482°F)	points	-1	10 max
Tensile Strength Change	D573-04	70 Hrs @ 250°C (482°F)	%	5	-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	-

B37 – COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression Set	D395-18, Method B	22小時(Hrs) @ 175°C (347°F) (plied)	-	-	50 max
Compression Set	D395-18, Method B	22小時(Hrs) @ 175°C (347°F)	%	11.4	-

B38 – COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression Set	D395-18, Method B	22 Hrs @ 200°C (392°F) (plied)	-	-	50 max
Compression Set	D395-18, Method B	22 Hrs @ 200°C (392°F)	%	14.8	-

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	-2	±5
Tensile Strength Change	D471-16a	70 Hrs @ 23°C (73°F)	%	-11	-25 max
Elongation Change	D471-16a	70 Hrs @ 23°C (73°F)	%	-5	-20 max
Volume Change	D471-16a	70 Hrs @ 23°C (73°F)	%	2.9	0 to 10

E078 – FLUID RESISTANCE, ASTM NO. 101 OIL

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 200°C (392°F)	points	-5	-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)	%	-7	-20 max
Volume Change	D471-16a	70 Hrs @ 200°C (392°F)	%	7.2	0 to 15

E088 – FLUID RESISTANCE, MOBIL JET OIL II

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 200°C (392°F)	points	-6	-15 to 5
Tensile Strength Change	D471-16a	70 Hrs @ 200°C (392°F)	%	-4	-40 max
Elongation Change	D471-16a	70 Hrs @ 200°C (392°F)	%	-1	-20 max
Volume Change	D471-16a	70 Hrs @ 200°C (392°F)	%	11.5	25 max

F15 – LOW-TEMPERATURE RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Low Temperature Brittleness	D2137-11, Method C	3 minute @ -25°C (-13°F)	-	pass	pass

ADDITIONAL APPROVALS

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