



# MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	V75-B601	MATERIAL	FKM
DUROMETER	75 Shore A	COLOR	Red
DESIGNATION	General Purpose	REPORT DATE	2022-01-25
TEMP RANGE	-25°C (-13°F) to 250°C (482°F)	CURE SYSTEM	Bisphenol
SPECIFICATION	ASTM D2000 M2HK710 A1-10 B37 EF31 EO78 EO88 Z1 Z2 Z3		

## PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
(Z1) Hardness (Shore A)	D2240-15	-	Shore A	73	75 ±5
Tensile Strength	D412-16	-	MPa (PSI)	14.2 (2,057)	10 (1,450) min
Elongation at Break	D412-16	-	%	181	175 min
100% Modulus	D412-16	-	MPa (PSI)	8.12 (1,178)	-
Density	CNS 5341-96, Method A	-	Mg/m <sup>3</sup>	2.06	-

## 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)	%	1	-25 max
Elongation Change	D573-04	70 Hrs @ 250°C (482°F)	%	-8	-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 Hrs @ 175°C (347°F) (plied)	%	8.1	50 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	-2	±5
Tensile Strength Change	D471-16a	70 Hrs @ 23°C (73°F)	%	-15	-25 max
Elongation Change	D471-16a	70 Hrs @ 23°C (73°F)	%	-10	-25 max
Volume Change	D471-16a	70 Hrs @ 23°C (73°F)	%	3	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	-6	-15 to 5
Tensile Strength Change	D471-16a	70 Hrs @ 200°C (392°F)	%	-13	-40 max
Elongation Change	D471-16a	70 Hrs @ 200°C (392°F)	%	-15	-20 max
Volume Change	D471-16a	70 Hrs @ 200°C (392°F)	%	9.8	0 to 15

**E088 – FLUID RESISTANCE, ASTM FUEL C RESISTANCE**

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 23°C (73°F)	points	-9	-15 to 5
Tensile Strength Change	D471-16a	70 Hrs @ 23°C (73°F)	%	-17	-40 max
Elongation Change	D471-16a	70 Hrs @ 23°C (73°F)	%	-15	-20 max
Volume Change	D471-16a	70 Hrs @ 23°C (73°F)	%	15.9	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.