



# MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	V95-B101	MATERIAL	FKM
DUROMETER	95 Shore A	COLOR	Black
DESIGNATION	RGD, General Purpose	REPORT DATE	2019-11-23
TEMP RANGE	-25°C (-13°F) to 250°C (482°F)	CURE SYSTEM	Bisphenol
SPECIFICATION	ASTM D2000 M3HK910 A1-10 EF31 EO78 EO88 Z1 Z2 Z3 Z4		

## PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
(Z1) Hardness (Shore A)	D2240-15 <sup>E1</sup>	-	Shore A	97	95 ±5
Tensile Strength	D412-16	-	MPa (PSI)	13.6 (1,977)	10 (1,450) min
Elongation at Break	D412-16	-	%	108	100 min
100% Modulus	D412-16	-	MPa (PSI)	13 (1,888)	-
Density	CNS 5341-96, Method A	-	Mg/m <sup>3</sup>	1.86	-

## 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)	%	-8	-25 max
Weight Change	D573-04	70 Hrs @ 250°C (482°F)	%	-1.9	-

## 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)	%	-6	-20 max
Volume Change	D471-16a	70 Hrs @ 23°C (73°F)	%	1.6	0 to 10

## EO78 – FLUID RESISTANCE, ASTM NO. 101 OIL

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 200°C (392°F)	points	-4	-15 to 5
Tensile Strength Change	D471-16a	70 Hrs @ 200°C (392°F)	%	-3	-40 max
Elongation Change	D471-16a	70 Hrs @ 200°C (392°F)	%	0	-20 max

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Volume Change	D471-16a	70 Hrs @ 200°C (392°F)	%	<b>5.4</b>	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	<b>-5</b>	-15 to 5
Tensile Strength Change	D471-16a	70 Hrs @ 200°C (392°F)	%	<b>-3</b>	-40 max
Elongation Change	D471-16a	70 Hrs @ 200°C (392°F)	%	<b>19</b>	-20 max
Volume Change	D471-16a	70 Hrs @ 200°C (392°F)	%	<b>10.4</b>	25 max

### Z2 – COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression Set	D395-18,Method B	22 Hrs @ 200°C (392°F)	%	<b>34.9</b>	–

### ADDITIONAL APPROVALS

NORSOK M-710
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Data shown is based on supplier testing of compound slabs/buttons and is provided for general reference only.