



# MATERIAL DATA SHEET

Global O-Ring and Seal, LLC

COMPOUND	V75-B104	MATERIAL	FKM
DUROMETER	75 Shore A	COLOR	Black
DESIGNATION	Viton ETP	REPORT DATE	2020-01-14
TEMP RANGE	-15°C (5°F) to 220°C (428°F)	CURE SYSTEM	Peroxide
SPECIFICATION	ASTM D2000 M2HK810 A1-10 B37 EF31 EO78 EO88 Z1		

## PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
(Z1) Hardness (Shore A)	D2240-15 <sup>E1</sup>	-	Shore A	77	75 ±5
Tensile Strength	D412-16	-	MPa (PSI)	13.9 (2,012)	10 (1,450) min
Elongation at Break	D412-16	-	%	265	150 min
100% Modulus	D412-16	-	MPa (PSI)	6.68 (969)	-
Density	CNS 5341-96, Method A	-	Mg/m <sup>3</sup>	1.88	-

## A1-10 – HEAT RESISTANCE

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D573-04	70 Hrs @ 250°C (482°F)	points	5	10 max
Tensile Strength Change	D573-04	70 Hrs @ 250°C (482°F)	%	4	-25 max
Elongation Change	D573-04	70 Hrs @ 250°C (482°F)	%	2	-25 max
Weight Change	D573-04	70 Hrs @ 250°C (482°F)	%	-1.8	-

## B37 – COMPRESSION SET

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Compression Set	D395-18, Method B	22 Hrs @ 175°C (347°F) (plied)	%	43.8	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	-3	±5
Tensile Strength Change	D471-16a	70 Hrs @ 23°C (73°F)	%	-20	-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)	%	6.9	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	<b>-13</b>	-15 to 5
Tensile Strength Change	D471-16a	70 Hrs @ 200°C (392°F)	%	<b>-20</b>	-40 max
Elongation Change	D471-16a	70 Hrs @ 200°C (392°F)	%	<b>6</b>	-20 max
Volume Change	D471-16a	70 Hrs @ 200°C (392°F)	%	<b>13.8</b>	0 to 15

**E088 – FLUID RESISTANCE, HATCO 7700 OIL**

PROPERTY	TEST METHOD	CONDITION	UNITS	RESULT	REQUIREMENT
Hardness Change	D471-16a	70 Hrs @ 200°C (392°F)	points	<b>-11</b>	-15 to 5
Tensile Strength Change	D471-16a	70 Hrs @ 200°C (392°F)	%	<b>-15</b>	-40 max
Elongation Change	D471-16a	70 Hrs @ 200°C (392°F)	%	<b>-2</b>	-20 max
Volume Change	D471-16a	70 Hrs @ 200°C (392°F)	%	<b>10.8</b>	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.