GLOBAL O-RING and SEAL
ALL-AROUND BETTER

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Compound V75101 Data Sheet

Material: Fluorocarbon Rubber (FKM)
75 Durometer, Black

General Information:
FKM is a high-performance rubber that has excellent resistance to high temperature, ozone, weather, oxygen, mineral oil, fuels, hydraulic fluids, aromatics and many organic solvents and chemicals.

Cure System: *Bisphenol-cured*
Standard FKM compounds are Bisphenol cured. FKM compounds with peroxide-cured possess better acid solution resistance than the bisphenol cured, and can replace litharge-cured applied in acid solution. In Some lubricants adding a few organic amide or amine, choosing peroxide curing system Viton® will be better than bisphenol curing system.

Temperature Range: -26°C (-15°F) to 232°C (450°F)

Attributes:
Color: Black
Durometer Shore A: 75±5
Shelf-life: Unlimited

Performs Well In:

- Petroleum Products
- Fuel or blend with methanol or ethanol
- Diesel or blend with biodiesel
- Mineral oil and grease
- Silicone oil and grease
- High vacuum
- Ozone, weather and very high temp. air
- Strong acid

Doesn't Perform Well In:

- Ketones
- Low molecular weight organic acids
- Superheat steam
- Low molecular weight esters and ethers
- Phosphate ester based hydraulic fluids

Request A Quote

Date: 3/5/2020

TEST REPORT FOR COMPOUND V75101

MATERIAL: FLUOROCARBON RUBBER
DUROMETER: 75
COLOR: BLACK
ASTM* D2000 M4HK715 A1-11 B38 C12 C20 EF31 EO78 Z1

SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	TYPICAL RESULTS	ASTM TEST METHOD
Z1	**ORIGINAL PHYSICAL PROPERTIES**			-
	Hardness, Shore A, pts	75±5	78	D2240-15
	Tensile Strength, psi, min	1500	2189	D412-16
	Elongation, min, %	175	184	D412-16
	Modulus @ 100%, psi		1110	D412-16
	Density, Mg/m^3		1.84	CNS 5341-96A
A1-11	**HEAT AGE**			D573-04
	70 hours at 275°C			
	Hardness Change, pts, Shore A	+10(max)	+5	
	Tensile Strength Change, %	-40(max)	-22	
	Elongation Change, %	-20(max)	+21	
	Weight Change, %		-5.3	
B38	**COMPRESSION SET**			D395-18B
	22 hours at 200°C, %	50%(plied)(max)	12.6	
C12	**OZONE RESISTANCE**			D1171-18
	50pphm, 70 Hrs @ 40°C, %	no-crack	pass	
C20	**OUTDOOR AGING RESISTANCE**			D1171-18
	-	no-crack	pass	
EF31	**ASTM FUEL C RESISTANCE**			D471-16a
	70 hours at 23°C			
	Hardness, Shore A	±5	-1	
	Tensile Strength Change, %	-25(max)	-7	
	Elongation Change, %	-20(max)	-3	
	Volume Change, %	0 to +10	+3.5	
EO78	**ASTM NO. 101 OIL**			D471-16a
	70 hours at 200°C			
	Hardness, Shore A	-15 to +5	-6	
	Tensile Strength Change, %	-40(max)	-9	
	Elongation Change, %	-20(max)	+2	
	Volume Change, %	0 to +15	+9.2	

*American Society for Testing and Materials

Date: 3/5/2020