
O-Ring Compound V75BK53 Data Sheet

Material: Viton® ETP
75 Durometer, Black

General Information:

Viton® ETP is a copolymer of ethylene, tetrafluoroethylene (TFE), and perfluoromethylvinyl ether (PMVE). This unique combination of monomers provides outstanding resistance to harsh fluids. Unlike conventional fluoroelastomers, Viton® ETP provides excellent resistance to low molecular weight esters, ketones, and aldehydes. Additionally, Viton® ETP is inherently resistant to attack by high pH fluids and base materials.

Cure System: *Peroxide-cured*

Temperature Range:

Static: -15°C (5°F) to 220°C (428°F)

Attributes:

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

Performs Well In:

- Low molecular weight esters, ketones, and aldehydes
- High pH fluids and base materials
- Synthetic/Mineral lubricants
- 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:

- Low molecular weight organic acids (formic and acetic acids)
- Superheat steam
- Phosphate ester based hydraulic fluids – Skydrol®

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TEST REPORT FOR O-RING COMPOUND V75BK53

MATERIAL: FLUOROCARBON RUBBER

DUROMETER: 75

COLOR: BLACK

ASTM* D2000 M2HK810 A1-A10 B37 B38 EF31 EO78 EO88 Z1

SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	RESULTS	ASTM TEST METHOD
	ORIGINAL PHYSICAL PROPERTIES			
	Hardness, Shore A	75±5	77	D2240-15
	Tensile Strength, psi (MPa)	1450(min)	2008(13.85)	D412-16
	Elongation, min, percent	150(min)	274	D412-16
	Modulus @ 100%, psi (Mpa)		957(6.60)	D412-16
	Density,(Mg/m ³)		1.88	CNS 5341-96A
A1-A10	HEAT AGE			D573-04
	70 hours at 250°C			
	Hardness Change, points	+10(max)	+6	
	Tensile Strength Change, percent	-25(max)	+3	
	Elongation Change, percent	-25(max)	+1	
B37	COMPRESSION SET			D395-18B
	22 hours at 175°C, percent	50%(plied)(max)	43.1	
B38	COMPRESSION SET			D395-18B
	22 hours at 200°C, percent	50%(plied)(max)	44.9	
EF31	ASTM FUEL C RESISTANCE			D471-16a
	70 hours @ 23°C			
	Hardness Change, points	±5	-4	
	Tensile Change, max, percent	-25(max)	-19	
	Elongation Change, max, percent	-20(max)	-4	
	Volume Change, percent	0~+10	+7.6	
EO78	ASTM NO. 101 OIL			D471-16a
	70 hours at 200°C			
	Hardness Change, points	-15~+5	-14	
	Tensile Change, max, percent	-40(max)	-19	
	Elongation Change, max, percent	-20(max)	+5	
	Volume Change, percent	0~+15	+13.2	
EO88	HATCO 7700 OIL			D471-16a
	70 hours at 200°C			
	Hardness Change, points	-15~+5	-10	
	Tensile Change, max, percent	-40(max)	-16	
	Elongation Change, max, percent	-20(max)	-1	
	Volume Change, percent	+25(max)	+9.2	

*American Society for Testing and Materials

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