
O-ring Compound V90 Data Sheet

Material: Genuine Viton®
90 Durometer, Black

General Information:

Viton® is a well-known 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

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

Attributes:

- Color: Black
- 90±5 Shore A durometer
- 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

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TEST REPORT FOR COMPOUND V90

MATERIAL: GENUINE VITON®

DUROMETER: 90

COLOR: BLACK

ASTM* D2000 M2HK910 A1-10 B38 EF31 EO78 EO88 Z1

SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	RESULTS	ASTM TEST METHOD
	ORIGINAL PHYSICAL PROPERTIES			
	Hardness, Shore A	90±5	90	D2240-05
	Tensile Strength, psi (MPa)	1450 (min.)	2256 (15.56)	D412-06a
	Elongation, percent	100 (min.)	137	D412-06a
	Modulus at 100%, psi (MPa)		1656 (11.42)	D412-06a
	Specific Gravity (g/cm³)		1.837	
A1-10	HEAT AGE			D573-04
	70 hours at 250°C (482°F)			
	Hardness Change, points	+10 (max.)	+3	
	Tensile Strength Change, percent	-25 (max.)	-11	
	Elongation Change, percent	-25 (max.)	-12	
	Weight Change, percent		-1.7	
B38	COMPRESSION SET			D395-03, Method B
	22 hours at 200°C (392°F), percent	50 (plied) (max.)	20.4	
EF31	FUEL C RESISTANCE			D471-06
	70 hours at 23°C (73.4°F)			
	Hardness Change, points	±5	-1	
	Tensile Strength Change, percent	-25 (max.)	-14	
	Elongation Change, percent	-20 (max.)	-10	
	Volume Change, percent	0 to +10	+2.7	
EO78	NO. 101 OIL			D471-06
	70 hours at 200°C (392°F)			
	Hardness Change, points	-15 to +5	-8	
	Tensile Strength Change, percent	-40 (max.)	-24	
	Elongation Change, percent	-20 (max.)	-1	
	Volume Change, percent	0 to +15	+10.9	
EO88	7700/SAE OIL			D471-06
	70 hours at 200°C (392°F)			
	Hardness Change, points	-15 to +5	-11	
	Tensile Strength Change, percent	-40 (max.)	-16	
	Elongation Change, percent	-20 (max.)	-8	
	Volume Change, percent	+25 (max.)	+15.3	

*American Society for Testing and Materials

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