
O-Ring Compound V95RGD Data Sheet

Material: Fluorocarbon Rubber – Rapid Gas Decompression
95 Durometer, Black

General Information:

V95RGD is a type of FKM 95 Shore A durometer compound with excellent resistance to synthetic and mineral lubricants. Norsok M-710 and ISO 23936-2 certified. These types of o-rings are commonly referred to as RGD, ED-Resistant, or AED (anti-explosive decompression) o-rings.

Cure System: *Peroxide-cured*

Temperature Range:

Dynamic: -15°C (5°F) to 220°C (428°F)

Static: -20°C (-4°F) to 250°C (482°F)

Attributes:

- Color: Black
- 95±5 Shore A durometer
- Shelf-life: Unlimited
- Norsok M-710 - passed – 1000
- API 6A Sour Fluid Resistance - passed

Performs Well In:

- 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:

- Ketones
- Low molecular weight organic acids (formic and acetic acids)
- Superheat steam
- Low molecular weight esters and ethers.
- Phosphate ester based hydraulic fluids - Skydrol(R)

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TEST REPORT FOR O-RING COMPOUND V95RGD

MATERIAL: FLUOROCARBON RUBBER

DUROMETER: 95

COLOR: BLACK

ASTM D2000 M3HK910 A1-10 EF31 EO78 EO88 Z1 Z2

SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	RESULTS	ASTM TEST METHOD
Z1	ORIGINAL PHYSICAL PROPERTIES			
	Hardness, Shore A	95±5	97	D2240-15
	Tensile Strength, psi (MPa)	1450(10)(min)	1977(13.63)	D412-16
	Elongation, min, percent	100(min)	108	D412-16
	Modulus @ 100%, psi (Mpa)		1888(13.02)	D412-16
	Density,(Mg/m ³)		1.86	CNS 5341-96A
A1-10	HEAT AGE			
	70 hours at 250°C			
	Hardness Change, points	+10(max)	+1	D573-04
	Tensile Strength Change, percent	-25(max)	+5	
	Elongation Change, percent	-25(max)	-8	
Weight Change, percent		-1.9		
Z2	COMPRESSION SET			
	22 hours at 200°C	%(button)	34.9	D395-18B
EF31	ASTM FUEL C RESISTANCE			
	70 hours @ 23°C			
	Hardness Change, points	±5	-2	D471-16a
	Tensile Change, max, percent	-25(max)	+11	
	Elongation Change, max, percent	-20(max)	-6	
Volume Change, percent	0~+10	+1.6		
EO78	ASTM NO. 101 OIL			
	70 hours at 200°C			
	Hardness Change, points	-15~+5	-4	D471-16a
	Tensile Change, max, percent	-40(max)	-3	
	Elongation Change, max, percent	-20(max)	0	
Volume Change, percent	0~+15	+5.4		
EO88	MOBIL JET OIL II			
	70 hours at 200°C			
	Hardness Change, points	-15~+5	-5	D471-16a
	Tensile Change, max, percent	-40(max)	-3	
	Elongation Change, max, percent	-20(max)	+19	
Volume Change, percent	+25(max)	+10.4		

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