GLOBAL O-RING and SEAL
ALL-AROUND BETTER

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Compound V75BL12 Data Sheet

Material: FKM Metal Detectable
75 Durometer, Blue

General Information:
Metal Detectable O-Rings perform similarly to conventional elastomer o-rings with regards to tolerance for high and low temperatures, mechanical stress, and resistance to corrosive chemicals. They are typically used with detection equipment to identify contamination. 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*

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

Attributes:
Color: Blue
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

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TEST REPORT FOR O-RING COMPOUND V75BL12

MATERIAL: FKM, BLUE, METAL DETECTABLE
DUROMETER: 75
COLOR: BLUE
ASTM* D2000 M2HK807 A1-10 EO78 EF31 B37 B38 Z:HD75+/-5

SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	RESULTS	ASTM TEST METHOD
	ORIGINAL PHYSICAL PROPERTIES			
	Durometer Hardness(1 sec) Shore A	75±5	72	D2240
	International Hardness, point		64.6	D1415
	Tensile Strength, psi, Die C	1015	1710	D412
	Elongation at Break, %, Die C	150	212	D412
	Tear Resistance, kgf/cm, Die C		29	D624
	Modulus at 100%, psi, Die C		955	D412
	Modulus at 200%, psi, Die C		1657	D412
	Modulus at 300%, psi, Die C		0	D412
	Specific Gravity		2.105	
	Shrinkage rate, %		-3.2	
A1-10	**HEAT RESISTANCE**			
	70 hours at 250°C			
	Hardness Change, points	+10	2	
	Tensile Strength Change, percent	-25	-12	
	Elongation Change, percent	-25	-1	
	Volume Change, percent		-4.2	
	HEAT RESISTANCE			
	70 hours at 275°C			
	Hardness Change, points		6	
	Tensile Strength Change, percent		-30	
	Elongation Change, percent		-11	
	Volume Change, percent		0.8	
EO78	**FLUID RESISTANCE SERVICE LIQUID #101**			
	70 hours at 200°C			
	Hardness Change, points	-15 TO +5	-7	
	Tensile Strength Change, percent	-40	-23	
	Elongation Change, percent	-20	0.0	
	Volume Change, percent	+15	11.2	
	FLUID RESISTANCE MOBIL JET II			
	70 hours @ 200°C			
	Hardness Change, points		-10	
	Tensile Change, max, percent		-29	
	Elongation Change, max, percent		-16	
	Volume Change, percent		17.3	

V75BL12

EF31	**FLUID RESISTANCE FUEL C 50% ISO-OCTANE+50% TOLUENE**			
	70 hours @ 23°C			
	Hardness Change, points	±5	-2	
	Tensile Change, max, percent	-25	-19	
	Elongation Change, max, percent	-20	-3	
	Volume Change, percent	+10	3	
	HEAT RESISTANCE			
	70 hours @ 275°C			
	Hardness Change, points		-72	
	Tensile Change, max, percent		-100	
	Elongation Change, max, percent		-100	
	Volume Change, percent		3	
B37	**COMPRESSION SET**		9.8	D395 Meth. B
	175°C at 22h, %, Max			
B38	**COMPRESSION SET**		14.5	D395 Meth. B
	200°C at 22h, %, Max			
	D1329-TR10, 51mm die, 50% elongation, retraction 10% min, °C	-16.4		D1329
	D2137-0001 3 hrs, min, °C	-15		D2137 Meth. A

*American Society for Testing and Materials