
Compound E75YL12 Data Sheet

Material: EPDM Metal Detectable
75 Durometer, Yellow

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. EPDM possesses an excellent resistance to ozone, sunlight and weathering, and has very good flexibility at low temperature, good chemical resistance, and good electrical insulation property.

Cure System: *Sulfur-cured*

Temperature Range: -55°C (-67°F) to 125°C (257°F)

Attributes:

Color: Yellow

Durometer Shore A: 75±5

Shelf-life: Unlimited

Performs Well In:

- Alcohols
- Automotive brake fluid
- Ketones
- Dilute acids and alkalis
- Silicone oils and greases
- Steam up to 204.4°C (400°F)
- Water
- Phosphate ester based hydraulic fluids
- Ozone, aging and weather

Doesn't Perform Well In:

- Aliphatic and aromatic hydrocarbons
- Di-ester based lubricants
- Halogenated solvents
- Petroleum based oils and greases

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TEST REPORT FOR O-RING COMPOUND

E75YL12

MATERIAL: EPDM FDA YELLOW, METAL DETECTABLE

DUROMETER: 75

COLOR: YELLOW

ASTM* D2000 M2AA810 A13 EA14 B13 F17 Z:HD75+/-5

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SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	RESULTS	ASTM TEST METHOD
	ORIGINAL PHYSICAL PROPERTIES			
	Durometer Hardness(1 sec) Shore A	75±5	80	D2240
	International Hardness, point		85.4	D1415
	Tensile Strength, psi, Die C	1450	1932	D412
	Elongation at Break, %, Die C	150	575	D412
	Tear Resistance, kgf/cm, Die C		53	
	Modulus at 100%, psi, Die C		624	
	Modulus at 200%, psi, Die C		952	
	Modulus at 300%, psi, Die C		1196	
	Specific Gravity		1.377	
	Shrinkage rate, %		-2.2	
A13	HEAT RESISTANCE			
	70 hours at 70°C			
	Hardness Change, points	±15	+2	
	Tensile Strength Change, percent	±30	-5	
	Elongation Change, percent	-50(max)	-10	
	Weight Change, percent		0.4	
	HEAT RESISTANCE			
	70 hours at 100°C			
	Hardness Change, points		+4	
	Tensile Strength Change, percent		-6	
	Elongation Change, percent		-29	
	Weight Change, percent		0.8	
	HEAT RESISTANCE			
	70 hours at 125°C			

	Hardness Change, points		+5	
	Tensile Strength Change, percent		+6	
	Elongation Change, percent		-40	
	Weight Change, percent		0	
EA14	FLUID RESISTANCE WATER			
	70 hours @ 100°C			
	Hardness Change, points		1	
	Tensile Change, max, percent		5	
	Elongation Change, max, percent		-12	
	Volume Change, percent	+10	1.9	
B13	COMPRESSION SET			
	70°C at 22h, %, Max		20.4	D395
	100°C at 22h, %, Max	±10	51.8	D395
	125°C at 22h, %, Max	-25(max)	90.5	D395
	100°C at 70h, %, Max	-25(max)	81.7	D395
	D1329-TR10, 51mm die, 50% elongation, retraction 10% min, °C	-40.8		D1329
	DIN53512 Button Din 53512 Rebound (Button), min, °C	54.7		
F17	D2137-0001 3 min, 3min, -40°C	-50	PASS	D2137

*American Society for Testing and Materials