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## O-ring Compound E70 Data Sheet

Material: Ethylene Propylene (EPDM)  
70 Durometer, Black

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### **General Information:**

EPDM possesses an excellent resistance to ozone, sunlight and weathering, and has very good flexibility at low temperature, good chemical resistance (many dilute acids and alkalis as well as polar solvents) and good electrical insulation property.

**Cure System:** Peroxide-cured

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

### **Attributes:**

- Color: Black
- 70±5 Shore A durometer
- 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 weathering

### **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 E70

MATERIAL: ETHYLENE PROPYLENE

DUROMETER: 70

COLOR: BLACK

ASTM\* D2000 M4CA714 A25 B44 EA14 F17 Z1 Z2

SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	RESULTS	ASTM TEST METHOD
	<b>ORIGINAL PHYSICAL PROPERTIES</b>			
	Hardness, Shore A	70±5	75	D2240-05
	Tensile Strength, psi (MPa)	2031 (min)	2429(16.75)	D412-06a
	Elongation, min, percent	200 (min)	259	D412-06a
	Modulus @ 100%, psi (Mpa)		753(5.19)	D412-06a
	Specific Gravity (g/cm³)		1.144	
A25	<b>HEAT AGE</b>			D573-04
	<b>70 hours at 125°C (257°F)</b>			
	Hardness Change, points	+10(max)	+4	
	Tensile Strength Change, percent	-20(max)	-7	
	Elongation Change, percent	-40(max)	-6.0	
	Weight Change, percent		-2.9	
B44	<b>COMPRESSION SET</b>			D395-03B
	70 hours at 100°C (212°F), percent	50(plied)(max)	8.5	
EA14	<b>WATER RESISTANCE</b>			D471-06
	<b>70 hours at 100°C (212°F)</b>			
	Hardness Change, points		-3	
	Tensile Change, max, percent		-13	
	Elongation Change, max, percent		+2	
	Volume Change, percent	±5	+4.1	
F17	<b>LOW-TEMPERATURE BRITTLENESS POINT</b>			D2137-05A
	<b>3 minutes at -40°C(-40°F)</b>			
	Sample Type: T-50			
	Coolant: Methanol			
	Brittleness temp. to nearest 1°C(1°F)	No crack	Pass	

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