
O-Ring Compound E70 Data Sheet

Material: Ethylene Propylene (EPDM)
70 Durometer, Black

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 |
|------------------------|--|----------------|-------------|------------------|
| | ORIGINAL PHYSICAL PROPERTIES | | | |
| | 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/cm ³) | | 1.144 | |
| A25 | HEAT AGE | | | D573-04 |
| | 70 hours at 125°C (257°F) | | | |
| | Hardness Change, points | +10(max) | +4 | |
| | Tensile Strength Change, percent | -20(max) | -7 | |
| | Elongation Change, percent | -40(max) | -6.0 | |
| B44 | COMPRESSION SET | | | D395-03B |
| | 70 hours at 100°C (212°F), percent | 50(plied)(max) | 8.5 | |
| EA14 | WATER RESISTANCE | | | D471-06 |
| | 70 hours at 100°C (212°F) | | | |
| | Hardness Change, points | | -3 | |
| | Tensile Change, max, percent | | -13 | |
| | Elongation Change, max, percent | | +2 | |
| Volume Change, percent | ±5 | +4.1 | | |
| F17 | LOW-TEMPERATURE BRITTLENESS POINT | | | D2137-05A |
| | 3 minutes at -40°C(-40°F) | | | |
| | Sample Type: T-50 | | | |
| | Coolant: Methanol | | | |
| | Brittleness temp. to nearest 1°C(1°F) | No crack | Pass | |

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