

EPDM 70 Compound 559273



ERIKS' 559273 is a specialist grade peroxide cured EPDM compound developed for pharmaceutical applications and food contact with improved chemical and thermal resistance.

Description

- **Chemical composition:** Terpolymer of ethylene, propylene and diene
- **Physical form:** O-rings, moulded parts and triclamps
- **Colour:** Black
- **Temperature resistance:** -45°C to +150°C

Application

- Pharmaceutical
- Food contact

Compliances

- USP class VI chapter <88> - 121°C
- USP chapter <381>
- FDA CFR 177.2600
- EC1935:2004
- ADI
- REACH
- RoHS

Additional information

- USP 35 NF 30 chapter <88> biological reactivity tests, In Vivo
- USP 37 NF 32 chapter <381> elastomeric closures for injections, section „Physicochemical Tests“
- Migration tested
- O-rings available from stock

Please consult our [Chemical Resistance Guide](#) for more information on this compound.



Table 1: Physical properties

| Property | Test standard | Value | Unit |
|--|---------------|-------|---------|
| Hardness | ASTM D2240 | 70±5 | Shore A |
| Elongation at break | ASTM D412 | 190 | % |
| Tensile strength | ASTM D412 | 14 | MPa |
| 100% Modulus | ASTM D412 | 5.5 | MPa |
| Compression set – 24 hours at 125°C | | | |
| Slab | ASTM 395 | 13 | % |

Table 2: Ageing properties

| Property | Test standard | Value | Unit |
|---|---------------|-------|---------|
| Heat ageing – 70 hours at 150°C | ASTM D573 | | |
| Hardness change | | +1 | Shore A |
| Elongation at break change | | -18 | % |
| Tensile strength change | | -18 | % |
| Immersion in water - 70 hours at 100°C | ASTM D417 | | |
| Hardness change | | -2 | Shore A |
| Elongation at break change | | +1 | % |
| Tensile strength change | | -3 | % |
| Volume change | | +1.3 | % |

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