

EPDM 70 Compound 55985



ERIKS' 55985 is a specialist grade peroxide cured EPDM compound developed for drinking water applications and has improved chemical and thermal resistance. The compound is particularly suitable for hot (chloramine treated) drinking water as well as food and beverage applications.

Description

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

Applications

- Drinking water
- Hot water and steam
- Organic- and inorganic acids
- Covalent- or non polar solvents

Compliances

- ACS, DVGW W270, KIWA-ATA, KTW, NSF61, UBA Elastomerleitlinie, WRAS
- FDA 21 CFR 177.2600, EC1935:2004
- USP Class VI
- EN681-1 WA – WB - WC – WD
- ADI
- REACH, RoHS

Additional information

- Wide range of 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 | ISO 48 | 68±5 | IRHD |
| Elongation at break | ISO 37 | 205 | % |
| Tensile strength | ISO 37 | 12.2 | MPa |
| 100% Modulus | ISO 37 | 3.5 | MPa |
| Compression set – 24 hours at 150°C Slab | ISO 815 | 15 | % |

Table 2: Ageing properties

| Property | Test standard | Value | Unit |
|---|---------------|-------|------|
| Ageing water - 70 hours at 100°C | ISO 1817 | | |
| Hardness change | | -3 | IRHD |
| Elongation at break change | | 0 | % |
| Tensile strength change | | -5 | % |
| Volume change | | +1.2 | % |
| Heat ageing - 70 hours at 150°C | ISO 188 | | |
| Hardness change | | -1 | IRHD |
| Elongation at break change | | -2 | % |
| Tensile strength change | | +8 | % |
| Volume change | | -0.8 | % |

Disclaimer: The content of this document has been composed with the utmost care. However, it is possible that certain information changes over time, becomes inaccurate or incomplete. ERIKS does not guarantee that the information provided on this document is up to date, accurate and complete; the information provided is not intended to be advice. ERIKS shall never be liable for damage resulting from the use of the information provided.