

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
- EC1935:2004
- FDA 21 CFR 177.2600
- USP Class VI
- EN681-1 WA – WB – WC – WD
- ADI free
- REACH
- RoHS

Additional information

- Wide range of O-rings available from stock
- EN1186 migration tested
- FDA 21 CFR 177.2600 extraction tested

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			
Hardness change	ISO 1817	-3	IRHD
Elongation at break change		0	%
Tensile strength change		-5	%
Volume change		+1.2	%
Heat ageing - 70 hours at 150°C			
Hardness change	ISO 188	-1	IRHD
Elongation at break change		-2	%
Tensile strength change		+8	%
Volume change		-0.8	%

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