

EPDM 80 Compound 559865



ERIKS' 559865 is a specialist grade peroxide cured EPDM compound developed for potable water applications with 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

Application

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

Compliances

- DVGW W270
- KIWA-ATA
- UBA Elastomerleitlinie
- WRAS
- FDA 21 CFR 177.2600
- EC1935:2004
- EN681-1 WA-WB-WC-WD
- ADI
- REACH
- RoHS

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



Table 1: Physical properties

Property	Test standard	Value	Unit
Hardness	ISO 48	78±5	IRHD
Elongation at break	ISO 37	186	%
Tensile strength	ISO 37	13.9	MPa
100% Modulus	ISO 37	6	MPa
Compression set – 24 hours at 125°C Slab	ISO 815	13	%

Table 2: Ageing properties

Property	Test standard	Value	Unit
Ageing water – 70 hours at 100°C	ISO 1817		
Hardness change		-3	IRHD
Elongation change		+2	%
Tensile strength change		+1	%
Volume change		+1.5	%