



EPDM 70 Compound 559270

Our 559270 is a high temperature resistant EPDM developed for low-fat dairy and American and European food and beverage industry applications.

Characteristics

- Colour: Black
- Temp. resistance low: -50 °C
- Temp. resistance high: 150 °C
- Hardness tolerance: -5/+5



Approval & Compliancy details

For Food & Beverage compliances, see Declaration of Compliance for typical application of the compound.

- 3-A Class II - low fat
- ADI Free
- AfPS GS 2014:01 Cat.2
- EC1935:2004
- FDA 21CFR177.2600 a-d, e, f
- REACH
- RoHS
- TSCA

Products

- Custom parts (moulded)
- O-rings (moulded)
- Triclamp seals

Table: Physical Properties

Property	Value	Unit
Hardness IRHD - Slab	69	
Hardness - Test standard	ISO48	
Compression set - Slab	13	%
Compression set - Duration @ temperature	24 hours at 125°C	
Compression set Test standard	ISO815	
Elongation at break	185	%
Elongation at break - Test standard	ISO37	
Tensile strength	12	MPa
Tensile strength - Test standard	ISO37	
100% Modulus	3.6	MPa
100% Modulus - Test standard	ISO37	
TR10 Low temperature resistance	-45	°C
TR10 Low temperature resistance - Test standard	ISO2921	

Disclaimer: The datasheet shows typical values and is verified against internal material specifications. 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 used without advice. ERIKS shall never be liable for damage resulting from the use of the information provided.

Table: Heat ageing

Property	Value	Unit
Heat ageing - Duration @ temperature	168 hours at 125°C	
Heat ageing - Hardness change IRHD	6	
Heat ageing - Elongation at break change	-15	%
Heat ageing - Tensile strength change	-8	%
Heat ageing - Volume change	-0.8	%
Heat ageing - Test standard	ISO 188	

Table: Water ageing

Property	Value	Unit
Water ageing - Duration @ temperature	168 hours at 95°C	
Water ageing - Hardness change IRHD	-0.2	
Water ageing - Elongation at break change	3	%
Water ageing - Tensile strength change	3	%
Water ageing - Volume change	1.2	%
Water ageing - Test standard	ISO 1817	