

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	%

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.