

## EPDM 70 Compound 559273



ERIKS' 559273 is a specialist grade peroxide cured EPDM compound developed for pharmaceutical applications and has 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

### 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“
- EN1183 migration tested
- FDA 21 CFR 177.2600 extraction tested
- O-rings available from stock

### Application

- Pharmaceutical
- Food contact

### Compliances

- USP class VI chapter <88> - 121°C
- USP chapter <381>
- EC1935:2004
- FDA CFR 177.2600
- ADI free
- REACH
- RoHS

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
<b>Compression set</b> – 24 hours at 125°C			
Slab	ASTM 395	13	%

Table 2: Ageing properties

Property	Test standard	Value	Unit
<b>Heat ageing</b> – 70 hours at 150°C	ASTM D573		
Hardness change		+1	Shore A
Elongation at break change		-18	%
Tensile strength change		-18	%
<b>Immersion in water</b> - 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	%

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