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	%

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