



559273 is a specialist grade peroxide cured EPDM compound developed for pharmaceutical applications and food contact with improved chemical and thermal resistance. This compound is developed in conformity with USP class VI. The USP study was conducted based upon the references: USP 30, NF25, 2007.<88> Biological Reactivity Tests, in vivo. Extraction conditions 121 ± 2°C for 1 ± 0.1 hour.

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 <88><381>
- FDA CFR 177.2600
- EC1935:2004
- ADI
- REACH
- RoHS

Additional information

- USP 35, NF 30, chapter <381> Elastomeric Klozures for injections, section physico-chemical
- Extraction tested
- Migration tested
- O-rings available from stock















Unit **Property** Test standard Value ASTM D2240 70±5 Shore A Hardness Elongation at break ASTM D412 190 % ASTM D412 Tensile strength 14 MPa 100% Modulus ASTM D412 5.5 MPa Compression set – 24 hours at 125°C **ASTM 395**

Table 2: Ageing properties

Property	Test standard	Value	Unit
Heat ageing – 70 hours at 150°C Hardness change Elongation at break change Tensile strength change	ASTM D573	+1 -18 -18	Shore A % %
Immersion in water - 70 hours at 100°C Hardness change Elongation at break change Tensile strength change Volume change	ASTM D417	-2 +1 -3 +1.3	Shore A % % %