

Precision Polymer V75SR

Fluoroelastomer

Precision Polymer Engineering Ltd.

Message:

V75SR is a peroxide-cured FDA-compliant, fluoroelastomer (FKM) material developed to withstand steam-in-place (SIP) and clean-in-place (CIP) procedures within pipe work and vessels.

Unlike other FDA-compliant fluoroelastomers, V75SR provides superior steam resistance, ideal for use in Stage II Sterilization processes which require exposure to steam up to 200°C (392°F).

V75SR can be used for all types of applications requiring FDA, 3A and USP Class VI compliance. It is suitable for use in all product contact applications including dry, aqueous and fatty media.

Available in any sized O-ring (fully moulded up to 2m/6.5ft internal diameter) and custom designed components.

Key Attributes

- Excellent steam resistance up to 200°C (+392°F)
- Superior resistance to a wide range of solvents & chemicals
- Superior mechanical properties
- FDA compliant - extraction tested to CFR 21 § 177.2600 (e,f)
- 3A Sanitary Standard 18-03 Class 1 compliant
- Free from Animal Derived Ingredients

Typical Applications

Recommended for use hygienic sealing in pharmaceutical, bio-analytical and food processing applications.

O-rings

Gaskets

Hygienic/sanitary couplings & pipe connectors

Ball segment valve seals (inflatable seals)

General Information			
Features	Solvent resistance		
	Good chemical resistance		
	Steam resistance		
	Compliance of Food Exposure		
	No kinetic components		
Uses	Washer		
	Valve/valve components		
	Non-specific food applications		
	Piping system		
	Connector		
	Seals		
	Bathroom products		
Agency Ratings	FDA 21 CFR 177.2600		
	Black		
Appearance			
Hardness	Nominal Value		Test Method
IRHD Hardness	71		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method


Tensile Strength (Yield)	18.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	190	%	ASTM D412, ISO 37
Compression Set (200°C, 72 hr)	20	%	ASTM D395, ISO 815
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	200	°C	
Additional Information			
Minimum Operating Temperature: -10°C (+14°F)			

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