

Precision Polymer V70SW

Fluoroelastomer

Precision Polymer Engineering Ltd.

Message:

V70SW 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, V70SW provides superior steam resistance, ideal for use in Stage II Sterilization processes which require exposure to steam up to 200°C (392°F).

V70SW can be used for all types of applications requiring FDA and USP Class VI compliance. It is suitable for use in all product contact applications including dry, aqueous and fatty media.

Key Attributes

- Excellent steam resistance up to 200°C
- Superior resistance to a wide range of solvents & chemicals
- Superior mechanical properties
- FDA compliant - extraction tested to CFR 21 § 177.2600(e,f)
- USP Class VI compliant
- 3-A 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	
	Pipe seal	
	Piping system	
	Connector	
	Seals	
	Bathroom products	
Agency Ratings	FDA 21 CFR 177.2600	
	USP Class VI	
Appearance	White	
Hardness	Nominal Value	Test Method
IRHD Hardness	70	ASTM D1415, ISO 48

Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	15.8	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	260	%	ASTM D412, ISO 37
Compression Set (200°C, 72 hr)	12	%	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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