

Precision Polymer V70H

Fluoroelastomer

Precision Polymer Engineering Ltd.

Message:

V70H is a copolymer FKM elastomer material suitable for repeated use in equipment associated with the production of dry, aqueous and fatty foodstuffs intended for human consumption.

Formulated using only those ingredients determined by the United States Federal Food and Drug Administration (FDA), V70H has undergone extraction testing in accordance with Code of Federal Regulations Title 21 (CFR21), Section 177.2600.

V70H also complies with the requirements of USP 25, NF20, 2002, Class 6 and has been tested in accordance with 3-A Sanitary Standards 18-03 Class 1.

Key Attributes

- Low compression set provides long-term sealing performance.
- Excellent resistance to oils
- FDA compliant - extraction tested to CFR 21 § 177.2600(e,f)
- USP Class VI <88> and USP <87> compliant
- 3-A Sanitary Standards Class 1 compliant
- Free from Animal Derived Ingredients

Typical Applications

- Pharmaceutical and bio-analytical equipment
- Food and dairy processing equipment
- Brewing equipment

General Information			
Features	Low compressive deformability		
	Oil resistance		
	Compliance of Food Exposure		
	No kinetic components		
Uses	Non-specific food applications		
	Drug		
Agency Ratings	FDA 21 CFR 177.2600		
	USP XXV, Class VI		
	USP Class VI		
Appearance	Black		
Hardness	Nominal Value		Test Method
IRHD Hardness	74		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	12.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	200	%	ASTM D412, ISO 37
Compression Set (200°C, 24 hr)	20	%	ASTM D395, ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (250°C, 72 hr)	-30 - 30	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (250°C, 72 hr)	-50	%	ASTM D412, ISO 37

Change in IRHD Hardness in Air (250°C, 72
hr)

-15 - 15

ASTM D573, ISO 188

Thermal

Nominal Value

Unit

Maximum Operating Temperature

200

°C

Additional Information

Minimum Operating Temperature: -20°C (-4°F)

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