

Precision Polymer V75W

Fluoroelastomer

Precision Polymer Engineering Ltd.

Message:

V75W 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), V75W has undergone extraction testing in accordance with Code of Federal Regulations Title 21 (CFR21), Section 177.2600.

V75W 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, fuels and hydraulic fluids.

FDA compliant - extraction tested to CFR 21 § 177.2600(e,f)

USP Class VI <88> and USP <87> compliant

3-A Sanitary Standards 18-03 Class 1 compliant

Free from Animal Derived Ingredients (ADI-free)

Typical Applications

Pharmaceutical and bio-analytical equipment

Food processing equipment

Industrial applications (eg. paint spray and printing)

General Information			
Features	Low compressive deformability		
	Fuel resistance		
	Oil resistance		
	Compliance of Food Exposure		
	No kinetic components		
Uses	Non-specific food applications		
	Industrial application		
	Drug		
Agency Ratings	FDA 21 CFR 177.2600		
	USP XXV, Class VI		
	USP Class VI		
Appearance	White-like		
Hardness	Nominal Value		Test Method
IRHD Hardness	75		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	10.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	200	%	ASTM D412, ISO 37
Compression Set			
200°C, 22 hr	14	%	ASTM D395
200°C, 24 hr	14	%	ISO 815

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (250°C, 72 hr)	-25	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (250°C, 72 hr)	-25	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (250°C, 72 hr)	10		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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