

Precision Polymer V76F

Fluoroelastomer

Precision Polymer Engineering Ltd.

Message:

V76F is a peroxide-cured tetrapolymer (70% fluorine) formulated for high performance sealing applications in today's aggressive industrial environments. V76F has been developed to provide outstanding resistance to solvents, fuels, hot water and steam (above 150°C/302°F). V76F also offers superior resistance to acids, oils, coolants and hydraulic fluids, making it ideal for use in fuel systems, chemical processing equipment and certain critical diesel engine locations. Alternative to lead-containing (litharge-cured) steam resistant grades.

Key Attributes

- Excellent resistance to fuels and solvents
- Excellent resistance to oils, steam/water and hydraulic fluids
- High temperature performance
- Superior long-term sealing performance

Typical Applications

- Marine diesel engines (e.g. fuel systems, cooling ports)
- Biofuel processing equipment
- Heat exchangers
- Paper/pulp processing equipment
- Hot water/steam systems

General Information			
Features	Solvent resistance		
	Good chemical resistance		
	Fuel resistance		
	Heat resistance, high		
	Oil resistance		
	Steam resistance		
Uses	Ship application		
Appearance	Black		
Hardness	Nominal Value		Test Method
IRHD Hardness	71		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	27.4	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	210	%	ASTM D412, ISO 37
Compression Set (200°C, 72 hr)	12	%	ASTM D395, ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (200°C, 72 hr)	3.0	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (200°C, 72 hr)	-15	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (200°C, 72 hr)	3.0		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	250	°C	

Additional Information

Minimum Operating Temperature: -15°C (+5°F)

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