

Precision Polymer V95X

Fluoroelastomer

Precision Polymer Engineering Ltd.

Message:

V95X is a high performance general purpose copolymer fluoroelastomer (FKM). This material provides excellent compression set performance and good chemical resistance to phosphate ester, acids, aliphatic and aromatic hydrocarbons, brines, solvents and petroleum fluids. V95X offers superior high temperature capability over HNBR elastomers and provides outstanding O-ring sealing force retention over most other oil-heat resistant elastomers with the exception of FFKM perfluoroelastomers.

- Key Attributes
- Good resistance to Explosive Decompression
 - Wide chemical resistance
 - Excellent properties in high pressure applications
 - High strength and extrusion resistant
- Typical Applications
- Low temperature and high pressure environments
 - Exploration and drilling equipment
 - Completion equipment
 - Subsea valves and pumps
 - Compressors
 - O-rings, special profile and custom-made seals

General Information			
Features	High strength		
	Solvent resistance		
	Good chemical resistance		
	acid resistance		
	General		
Uses	Pump parts		
	Low temperature application		
	Valve/valve components		
	Seals		
	Oil/Gas Supplies		
Appearance	Black		
Hardness	Nominal Value		Test Method
IRHD Hardness	92		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	16.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	120	%	ASTM D412, ISO 37
Compression Set (200°C, 24 hr)	15	%	ASTM D395, ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (250°C, 72 hr)	-5.0	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (250°C, 72 hr)	-21	%	ASTM D412, ISO 37

Change in IRHD Hardness in Air (250°C, 72 hr)	5.0	ASTM D573, ISO 188
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Thermal	Nominal Value	Unit
Maximum Operating Temperature	200	°C

Additional Information

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

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