

# Precision Polymer V74C

Fluoroelastomer

Precision Polymer Engineering Ltd.

Message:

V74C is a fluoroelastomer (FKM) material developed to offer extremely low compression set combined with excellent heat ageing properties. V74C has been engineered to retain its mechanical properties significantly longer than conventional FKM grades even under extreme temperature cycling, thereby providing increased service life and significantly lower the cost of ownership. V74C exhibits good resistance to acids and aqueous media, and excellent resistance to oil, fuels and hydraulic fluids at high temperature. Available in any sized O-ring (fully moulded up to 2m/6.5ft internal diameter) and custom designed components.

Key Attributes

Extremely low compression set and cumulative compression set providing extended seal life

Excellent long-term high temperature stability

Superior heat ageing properties for long-term sealing

Typical Applications

Vacuum pumps & compressors (high temperature applications)

Mechanical seals

Chemical pumps and valves

Couplings and quick connectors

General Information			
Features	Low compressive deformability		
	Good heat aging resistance		
	Fuel resistance		
	acid resistance		
	Oil resistance		
Uses	Pump parts		
	Valve/valve components		
	Connector		
	Seals		
Appearance	Black		
Hardness	Nominal Value		Test Method
IRHD Hardness	75		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	12.5	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	220	%	ASTM D412, ISO 37
Compression Set			ASTM D395, ISO 815
200°C, 24 hr	5.0	%	ASTM D395, ISO 815
200°C, 72 hr	9.5	%	ASTM D395, ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (250°C, 72 hr)	0.0	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (250°C, 72 hr)	0.0	%	ASTM D412, ISO 37

Change in IRHD Hardness in Air (250°C, 72 hr)	-2.0	ASTM D573, ISO 188
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Thermal	Nominal Value	Unit
Maximum Operating Temperature	225	°C

#### Additional Information

Minimum Operating Temperature: -18°C (-1°F)

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