V74C

Ultra-low compression set fluoroelastomer with excellent heat ageing properties



Description

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

Other materials available

V61C & V71C: ultra-low temperature FKM grades

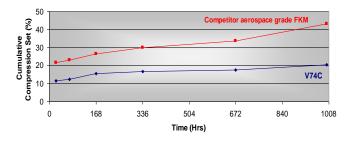
FDA, USP & 3A compliant materials for food and pharmaceutical applications

ENDURA® oilfield elastomers for the ultimate performance in high pressure applications

Perlast® perfluoroelastomers when resistance to aggressive chemicals and high temperatures are required

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CUMULATIVE COMPRESSION SET Vs Time @ 160°C (320°F)





Typical Material Properties

Property	ASTM	ISO	Value
Material Type	FKM	FPM	Copolymer
Colour			Black
Hardness: (°IRHD)	D1415	ISO48	75
Tensile Strength (MPa)	D412	ISO37	12.5
Elongation at break (%)	D412	ISO37	220
Compression Set: 24 hrs @ 200°C (392°F) 72 hrs @ 200°C (392°F) Minimum Operating	D395 D395	ISO815 ISO815	5.0% 9.5% -18°C
Temperature			(-1°F)
Maximum Operating Temperature			+225°C (+437°F)
Heat Ageing: 72 hrs @ 250°C (482°F) Hardness change (points) Tensile strength change Elongation at break change	D573 D1415 D412 D412	ISO188 ISO48 ISO37 ISO37	-2 IRHD 0 0

SPECIAL NOTE: This information is to the best of our knowledge accurate and reliable. However, Precision Polymer Engineering Ltd makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use, especially in applications where their failure may result in injury and/or damage. It should also be noted that all elastomeric parts have a finite life. Therefore a regular programme of inspection and replacement is strongly recommended. The material properties above should not to be used for specification purposes.

Quotation's and Order's you can send to: sales@oring.su

Official web site: www.oring.su