

V75G

High quality green coloured fluoroelastomer



Description

V75G is a fluoroelastomer (FKM) material developed to offer good compression set performance and good all-round chemical resistance in operating temperatures up to 200°C (392°F).

This material is used extensively in vacuum applications due to its low gas permeability and diesel engines where its broad chemical resistance, at medium operating temperatures, provides excellent long-term service life.

Available in any sized O-ring (fully moulded up to 2m/6.5ft internal diameter) and custom designed components.

V75G meets ASTM D2000 line call-out M2HK707, A1-10, B38, EF31, EO78, F15, Z1, Z2 (Z1 = colour green & Z2 = comp-set 30% max.).

Key Attributes

- ▶ Excellent long-term sealing performance
- ▶ Broad chemical resistance
- ▶ Coloured green for easy identification

Typical Applications

- ▶ Vacuum equipment
- ▶ Mechanical seals
- ▶ Marine diesel engines
 - Cylinder liners
 - Injection systems
 - Low temp. exhaust valve seals
 - Cooling channels

Other materials available

V61C & V71C: ultra-low temperature FKM

V74C: ultra-low compression set FKM

V75J: high temperature steam resistant FKM

V80D: high temperature FKM

Perlast® G80A: highly chemical resistant FFKM perfluoroelastomer

Perlast® G75B: high temperature FFKM perfluoroelastomer

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Typical Material Properties

Property	ASTM	ISO	Value
Material Type	FKM	FPM	Copolymer
Colour			Green
Hardness: (°IRHD)	D1415	ISO48	71
Tensile Strength (MPa)	D412	ISO37	9
Elongation at break (%)	D412	ISO37	200
Compression Set: 24 hrs @ 200°C (392°F)	D395	ISO815	17%
Minimum Operating Temperature			-20°C (-4°F)
Maximum Operating Temperature			+200°C (+392°F)
Heat Ageing: 72 hrs @ 250°C (482°F)	D573	ISO188	
Hardness change (points)	D1415	ISO48	+2 IRHD
Tensile strength change	D412	ISO37	+10
Elongation at break change:			
moulded O-rings	D412	ISO37	-25
jointed O-rings	D412	ISO37	-41

SPECIAL NOTE: This information is to the best of our knowledge accurate and reliable. However, PPE 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 program of inspection and replacement is strongly recommended. Low temperature operating parameters are based on SAE AMS 7379-2003. The material properties above should not be used for specification purposes.

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

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