

Precision Polymer V75G

Fluoroelastomer

Precision Polymer Engineering Ltd.

Message:

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

General Information			
Features	Good chemical resistance		
Uses	Ship application		
	Seals		
	Application in Automobile Field		
Agency Ratings	ASTM D 2000		
Appearance	Green		
Hardness	Nominal Value		Test Method
IRHD Hardness	71		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	9.00	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	200	%	ASTM D412, ISO 37
Compression Set (200°C, 24 hr)	17	%	ASTM D395, ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (250°C, 72 hr)	10	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air			ASTM D412, ISO 37
250°C, 72 hr ¹	-25	%	ASTM D412, ISO 37
250°C, 72 hr ²	-41	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (250°C, 72 hr)	2.0		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	200	°C	
Additional Information			
Minimum Operating Temperature: -20°C (-4°F)			

NOTE

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| 1. | moulded O-rings |
| 2. | jointed O-rings |

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