

Precision Polymer V72G

Fluoroelastomer

Precision Polymer Engineering Ltd.

Message:

V72G is a fluoroelastomer (FKM) rubber, a Copolymer of vinylidene fluoride and hexafluoropropylene, coloured green for easy identification. FKM materials typically provide excellent resistance to heat, aliphatic and aromatic hydrocarbons, chlorinated solvents and petroleum fluids. Fluoroelastomers offer superior O-ring sealing force retention over most other oil-heat resistant elastomers, with the exception of perfluoroelastomers. V72G is accepted by the UK Ministry of Defence (MOD) to Defence Standard 02-337 part 1, issue 1 (NES 337) for use on naval ships and submarines. Available in any sized O-ring (fully moulded up to 2.5m/8ft internal diameter) and custom designed components.

- Key Attributes
- Excellent heat resistance and long-term sealing performance
 - Broad chemical resistance
 - Superior mechanical properties
 - Coloured green for easy identification
 - Accepted by M.O.D. to Def. Stan. NES 337
- Typical Applications
- Naval ships and submarines
 - Chemical processing equipment
 - Pumps
 - Valves

General Information			
Features	Copolymer		
	Solvent resistance		
	Good chemical resistance		
	Heat resistance, high		
Uses	Pump parts		
	Ship application		
	Valve/valve components		
Appearance	Green		
Hardness	Nominal Value		Test Method
IRHD Hardness	69		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	12.8	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	160	%	ASTM D412, ISO 37
Compression Set (200°C, 24 hr)	10	%	ASTM D395, ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (250°C, 72 hr)	-1.0	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (250°C, 72 hr)	-12	%	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
Low Temperature Resistance - Non-brittle after 3 mins	-17	°C
Additional Information	Nominal Value	Unit

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

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