Product Data Sheet

V72G

Green Fluoroelastomer Rubber (FKM)

ORING

Description

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

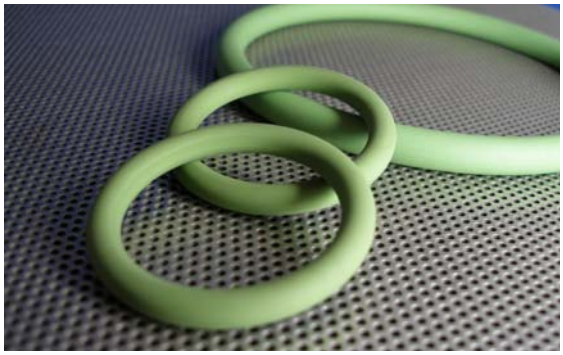
- Naval ships and submarines
- Chemical processing equipment
- Pumps
- Valves

Other NES337 materials available

Medium ACN Nitrile materials in 60, 70, 80 and 90 hardness
High ACN Nitrile materials in 60, 70, 80 and 90 hardness
HNBR materials in 70, 80 and 90 hardness

PPE O-ring parts are listed on the ISIS system under NCAGE reference number U6183.

NES 337



Typical Material Properties

Property	ASTM	ISO	Value
Material Type	FKM	FPM	Copolymer
Colour			Green
Hardness: (°IRHD)	D1415	ISO48	69
Tensile Strength (MPa)	D412	ISO37	12.8
Elongation at break (%)	D412	ISO37	160
Compression Set: 24 hrs @ 200°C (392°F)	D395	ISO815	10%
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	-1%
Elongation at break change	D412	ISO37	-12%
Low temperature resistance: Non-brittle after 3mins at			-17°C

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.*
Low temperature operating parameters are based on SAE AMS 7379-2008.
The material properties above should not to be used for specification purposes.