Product Data Sheet

Perlast® G70A

Exceptional chemically resistant perfluoroelastomer

PERLAST®

Description

Perlast® G70A uses a unique molecular cross-linking technology to offer the broadest range of chemical resistance of any FFKM with the ability to operate up to a maximum temperature of 260°C (500°F).

An extremely versatile material, Perlast® G70A is suitable for 90% of sealing applications encountered in the chemical processing and refining industries, providing excellent resistance to highly aggressive acids, amines, chlorine and solvent-based chemistries.

Perlast® G70A is available as fully moulded O-rings (any size up to 2m/6.5ft internal diameter), custom shapes and profiles.

Key Attributes

- Ultimate chemical resistance to a wide range of chemicals
- Exceptional acid and amine resistance
- Excellent steam resistance
- Superior mechanical properties
- High sealing efficiency

Typical Applications

Pumps
Valves
Mechanical seals
Compressors (high H_2S concentration environments)
Pressure vessels
Diesel engines (pre-chambers and exhaust systems)
Couplings & Fittings
Custom shapes and profiles

Other materials in this range

Perlast® G80A (black chemical resistant grade (80 IRHD hardness)
Perlast® G75M (black multi-purpose grade)
Perlast® G75TX (black ultra-high temperature up to +327°C / +621°F)
Perlast® G75H (white high temperature up to +320°C / +608°F)

Note: Perfluoroelastomers are not suitable for use with molten alkali metals.

Typical Material Properties

Property	ASTM	ISO	Value
Material Type	FFKM	FFPM	
Colour			Black
Hardness: (°IRHD) (°Shore A)	D1415 D2240	ISO48	70
Tensile Strength (MPa)	D412	ISO37	18.1
Elongation at break (%)	D412	ISO37	140
100% Modulus (MPa)	D412	ISO37	13.2
Compression Set (%): 24 hrs @ 200°C (392°F)	D395	ISO815	10
Minimum Operating Temperature			-15°C (+5°F)
Maximum Operating Temperature			+260°C (+500°F)

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. The material properties above should not to be used for specification purposes.*