

# Perlast® G80A

Exceptional chemically resistant perfluoroelastomer

## PERLAST®

### Description

Perlast® G80A 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® G80A 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® G80A 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
- ▶ Superior mechanical properties
- ▶ High sealing efficiency

### Typical Applications

Pumps  
Valves  
Mechanical seals  
Compressors (high H<sub>2</sub>S concentration environments)  
Pressure vessels  
Diesel engines (pre-chambers and exhaust systems)  
Couplings & Fittings  
Custom shapes and profiles

### Other materials in this range

Perlast® G75B (black ultra-high temperature up to +325°C / +617°F)

Perlast® G75H (white high temperature up to +320°C / +608°F)

Perlast® G80A has been tested extensively in a range of aggressive media (including amines, acids, solvents, steam, etc) under extreme conditions.

Please contact our technical sales department for a copy of these test results.



### Typical Material Properties

Property	ASTM	ISO	Value
Material Type	FFKM	FFPM	
Colour			Black
Hardness: (°IRHD)	D1415	ISO48	80
	(°Shore A) D2240		81
Tensile Strength (MPa)	D412	ISO37	17.0
Elongation at break (%)	D412	ISO37	120
100% Modulus (MPa)	D412	ISO37	16.0
Compression Set: 72 hrs @ 200°C (392°F)	D395	ISO815	21
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 be used for specification purposes.

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