

Perlast® G80A

Perfluoroelastomer

Precision Polymer Engineering Ltd.

Message:

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 H2S concentration environments)
 - Pressure vessels
 - Diesel engines (pre-chambers and exhaust systems)
 - Couplings & Fittings
 - Custom shapes and profiles

General Information			
Features	Solvent resistance		
	Good chemical resistance		
	acid resistance		
Uses	Pump parts		
	Valve/valve components		
	High temperature application		
	Machine/mechanical parts		
	Seals		
	Accessories		
Appearance	Black		
Forms	Customizable form factor		
	Profile		

Hardness	Nominal Value		Test Method
IRHD Hardness	80		ASTM D1415, ISO 48

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	16.0	MPa	ASTM D412, ISO 37
Tensile Strength (Yield)	17.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	120	%	ASTM D412, ISO 37

Compression Set (200°C, 72 hr)	21	%	ASTM D395, ISO 815
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	260	°C	
Additional Information			
Minimum Operating Temperature: -15°C (+5°F)			

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