

Perlast® G75TX

Perfluoroelastomer

Precision Polymer Engineering Ltd.

Message:

Description Perlast® G75TX is the ultimate ‘next generation’ perfluoroelastomer, offering a combination of excellent chemical resistance and ultra-high temperature stability, simultaneously extending the operating limits in all aspects.

Perlast® G75TX has been formulated to provide increased resistance to a broad range of chemicals by carefully controlling the molecular architecture. In addition, this perfluoroelastomer has low permeability and as a result, it is less prone to swelling, leading to extended in- service performance in, for example, valves, pumps and mechanical seals.

Perlast® G75TX is suitable for both dynamic and static applications and can be fully moulded into O-rings (any size up to 2.5m/8ft external diameter) and custom shapes.

Key Attributes

Very high temperature resistance

Ultra low compression set

Excellent chemical resistance to a broad range of chemicals

Exceptional acid and amine resistance

Superior mechanical properties

Long-term sealing efficiency at high temperatures

Extremely low out-gassing properties

Good steam resistance (ASME BPE 2000)

Typical Applications

Aerospace

Chemical Processing

Diesel

Semiconductor

Oil & Gas

General Information			
Features	The degassing effect is low to no		
	Low compressive deformability		
	Good chemical resistance		
	Heat resistance, high		
	acid resistance		
	Steam resistance		
	Thermal stability, good		
Uses	Pump parts		
	Valve/valve components		
	Seals		
Appearance	Black		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore A)	75		ASTM D2240, ISO 7619
IRHD Hardness	75		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	11.0	MPa	ASTM D412, ISO 37
Tensile Strength (Yield)	14.0	MPa	ASTM D412, ISO 37

Tensile Elongation (Break)	130	%	ASTM D412, ISO 37
Compression Set (200°C, 72 hr)	8.0	%	ASTM D395, ISO 815
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	327	°C	
Coefficient of Linear Thermal Expansion	3.80E-4		
Additional Information			
Minimum Operating Temperature: -15°C (+5°F)			

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