Perlast® ICE G90LT

Perfluoroelastomer

Precision Polymer Engineering Ltd.

Message:

Perlast® ICE G90LT offers a unique combination of excellent chemical resistance, explosive decompression resistance and low temperature capability down to -46°C (-51°F). Perlast® ICE G90LT has been formulated to provide excellent resistance to a broad range of chemicals by carefully controlling the molecular architecture. In addition, this perflouroelastomer has a low permeability and as a result, it is less prone to swelling, leading to extended in-service performance in valves, pumps and mechanical seals. Ideal for use in exploration and completion applications and equipment operating or stored in sub-zero conditions. Perlast® ICE G90LT is suitable for both dynamic and static applications and can be fully moulded into O-rings (any size up to 2.5m/8ft internal diameter) and custom shapes. **Key Attributes** Excellent explosive decompression resistance Tested to NORSOK M710 standard Exceptional resistance to methanol, sour gas, hot water, steam, oils, acids and amines beyond that of conventional TFE/P (Aflas ®) and FKM polymers Excellent low-temperature sealing capability Suitable for use in API 6A & 6D wellhead equipment and valves. Good mechanical properties Good high temperature resistance. **Typical Applications** Drilling tools (deepwater) Wellhead equipment Completion tools Pipe connectors Downstream refinery & petrochem equipment Pumps Valves Compressors

. Mechanical seals

General Information	
Features	Low temperature resistance
	Heat resistance, high
	acid resistance
	Oil resistance
	Steam resistance
Uses	Pump parts
	Valve/valve components
	Pipe seal
	Piping system
	Seals
	Oil/Gas Supplies
Appearance	Black

Hardness	Nominal Value	Test Method
Durometer Hardness (Shore A)	89	ASTM D2240, ISO 7619
IRHD Hardness	90	ASTM D1415, ISO 48

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	17.0	MPa	ASTM D412, ISO 37
Tensile Strength (Yield)	18.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	120	%	ASTM D412, ISO 37
Compression Set (200°C, 70 hr)	21	%	ASTM D395, ISO 815
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-30.0	°C	ASTM D3418
Maximum Operating Temperature	240	°C	
Coefficient of Linear Thermal Expansion	3.00E-4		
Low Temperature Resistance - TR10	-31	°C	ASTM D1329
Additional Information	Nominal Value	Unit	Test Method

Minimum Operating Temperature: -46°C (-51°F)

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