

Perlast® G92E

Perfluoroelastomer

Precision Polymer Engineering Ltd.

Message:

Understanding the demanding challenges in the oil and gas exploration and extraction industry, PPE offers the most technically advanced range of elastomer materials to meet the needs of sealing applications operating in the most severe conditions.

Perlast® G92E is part of the EnDura® range of elite materials which have been specifically formulated for Explosive Decompression (ED) resistance in downhole, surface and subsea oilfield equipment.

Perlast® G92E offers exceptional chemical compatibility, combined with excellent thermal and ED resistance.

Key Attributes

Excellent Explosive Decompression resistance.

Tested to NACE TM0297 standard.

Tested up to 28 MPa (4000psi) in nitrogen at 150°C (302°F) for 120 hours, and decompressed over 20 minutes: excellent results with no cracks or blistering.

Exceptional resistance to methanol, sour gas, hot water, steam and oils, beyond that of conventional TFE/P (Aflas®) and FKM polymers.

Excellent compression set provides long-term sealing capability and improved leak prevention thus minimizing equipment failure.

Typical Applications

High pressure environments

Harsh chemical exposure

Exploration and drilling equipment

Completion equipment

Subsea valves and pumps

Compressors

O-rings, T-section seals, special profiles and custom-made seals

General Information			
Features	Good chemical resistance		
	Heat resistance, high		
	Oil resistance		
	Steam resistance		
	Thermal stability, good		
Uses	Pump parts		
	Valve/valve components		
	Oil/Gas Supplies		
Appearance	Black		
Hardness	Nominal Value		Test Method
IRHD Hardness	90		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	25.0	MPa	
Tensile Strength (Yield)	26.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	110	%	ASTM D412, ISO 37
Compression Set			ASTM D395, ISO 815
200°C, 24 hr	24	%	ASTM D395, ISO 815
200°C, 350 hr	35	%	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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