

Perlast® G75H

Perfluoroelastomer

Precision Polymer Engineering Ltd.

Message:

Perlast® G75H incorporates a novel reinforcement system which produces a synthetically clean compound formulated for minimum particle generation combined with excellent resistance to aggressive oxygen and fluorine based plasmas.

Specially developed for Plasma and Gas Deposition applications including ashing, etching, HDPCVD, PECVD, SACVD.

Particularly suited for use in applications which require exposure to temperatures of up to 320°C (608°F) combined with excellent mechanical properties.

Key Attributes

Excellent plasma resistance

High temperature stability

Wide chemical resistance

Low out-gassing properties making it ideal for vacuum applications

Ultra low metal ion content

Low coefficient of thermal expansion

Outstanding physical properties make G75H ideal for dynamic applications.

Typical Applications

Dynamic seals

Static seals

Other components

General Information			
Features	The degassing effect is low to no		
	Low CLTE		
	Good chemical resistance		
	Heat resistance, high		
	Thermal stability, good		
Uses	Electrical/Electronic Applications		
	Valve/valve components		
	Seals		
Appearance	White-like		
Hardness	Nominal Value	Test Method	
Durometer Hardness (Shore A)	80	ASTM D2240	
IRHD Hardness	74	ASTM D1415, ISO 48	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	9.00	MPa	ASTM D412, ISO 37
Tensile Strength (Yield)	18.1	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	220	%	ASTM D412, ISO 37
Compression Set (200°C, 72 hr)	18	%	ASTM D395, ISO 815
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	320	°C	
Coefficient of Linear Thermal Expansion	3.00E-4		
Additional Information			

Minimum Operating Temperature: -15°C (+5°F)

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