

Precision Polymer Engineering Perlast® G75B High Temperature Perfluoroelastomer

Category : Polymer , Thermoset , Fluoropolymer, TS , Thermoset Fluoroelastomer , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Perlast® G75B offers a unique blend of excellent chemical resistance, temperature capabilities and mechanical properties, simultaneously extending the operating limits in all three aspects. Perlast® G75B has been specially formulated to provide increased acid resistance by eliminating fillers that are prone to acid attack and optimising the polymer structure. 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. A high modulus makes G75B resistant to extrusion and ideal for use in high pressure environments. In addition, the low long-term compression set provides a high mean-time between maintenance cycles in hot chemically aggressive environments. Perlast® G75B is suitable for both dynamic and static applications and can be moulded into O-rings and custom shapes. Applications: Aerospace: Inter-stage seal assemblies (static O-rings). Chemical Processing: Pumps; Valves; Mechanical seals. Diesel: Cylinder bore liners (static O-rings); Exhaust valve seats. Semiconductor: Gas abatement systems (static); High vibration environments. Oil & Gas: High temperature down-hole environments; Electrical bulkhead feed-throughs.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-Perlast-G75B-High-Temperature-Perfluoroelastomer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78	78	ASTM D1415
	79	79	ASTM D2240
Tensile Strength, Yield	19.2 MPa	2780 psi	ASTM D412
Elongation at Break	131 %	131 %	ASTM D412
100% Modulus	0.0120 GPa	1.74 ksi	ASTM D412
Compression Set	26 %	26 %	72 hours @ 200°C; ASTM D395

Thermal Properties	Metric	English	Comments
CTE, linear	400 µm/m-°C	222 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	325 °C	617 °F	
Minimum Service Temperature, Air	-15.0 °C	5.00 °F	

Descriptive Properties	Value	Comments
Color	black	

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