

Precision Polymer Engineering Perlast® G92A Perfluoroelastomer

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

Material Notes:

An electrically conductive black perfluoroelastomer with excellent chemical and steam resistance. Applications: Specially formulated for applications requiring special electrical properties. Originally designed for "Microfluidics" and "Lab on a Chip" applications, this material possesses good resistance to reagents and solvents whilst providing protection against static electricity build up. It has no capacitance, and a volume resistivity circa 200 ohm/cm. Do not use any Perlast ® grade with molten alkali metals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-Perlast-G92A-Perfluoroelastomer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	94	94	°IRHD; ASTM D1415
	95	95	°IRHD, +1 change after 72 hours @ 250°C; ASTM D1415
Tensile Strength, Yield	16.15 MPa	2342 psi	-15% change after 72 hours @ 250°C; ASTM D412
	19.0 MPa	2760 psi	ASTM D412
Elongation at Break	68 %	68 %	ASTM D412
	88.4 %	88.4 %	30% change after 72 hours @ 250°C; ASTM D412
50% Modulus	0.0129 GPa	1.87 ksi	15% change after 72 hours @ 250°C; ASTM D412
Compression Set	36 %	36 %	24 hours @ 200°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	260 °C	500 °F	
Minimum Service Temperature, Air	-15.0 °C	5.00 °F	
Flash Point	>= 400 °C	>= 752 °F	

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