

Precision Polymer Engineering F70A Fluorosilicone Rubber

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

Material Notes:

Blue Fluorosilicone Rubber, 60 to 70 °IRHD. Fluorosilicone rubber having methyl, vinyl and fluorine substituent groups on the polymer chain.

To meet Aerospace Specification Mil-R-25988B, Class 1, Grade 70. Applications: Excellent heat resistance and low temperature flexibility.

Suitable for sealing petroleum oils and hydrocarbon fuels. Fluorosilicones are widely used in aircraft fuel systems.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-F70A-Fluorosilicone-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	65	65	°IRHD; ASTM D1415
	70	70	°IRHD, +5 change after 70 hours @ 200°C; ASTM D1415
Tensile Strength, Yield	8.00 MPa	1160 psi	ASTM D412
	8.40 MPa	1220 psi	5% change after 70 hours @ 200°C; ASTM D412
Elongation at Break	172 %	172 %	-14% change after 70 hours @ 200°C; ASTM D412
	200 %	200 %	ASTM D412
Compression Set	10 %	10 %	22 hours @ 175°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	225 °C	437 °F	
Minimum Service Temperature, Air	-57.0 °C	-70.6 °F	TR10
	-55.0 °C	-67.0 °F	
Flash Point	>= 300 °C	>= 572 °F	

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