

Precision Polymer Engineering F80R Fluorosilicone Rubber

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

Material Notes:

Red Fluorosilicone, 76-85 °IRHD. Fluorosilicone rubber having methyl, vinyl and fluorine substituent groups on the polymer chain. To meet Aerospace Specification DTD5583A Grade 80.Applications:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-F80R-Fluorosilicone-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	°IRHD; ASTM D1415
	87	87	°IRHD, +5 change after 336 hours @ 200°C; ASTM D1415
Tensile Strength, Yield	4.55 MPa	660 psi	-30% change after 336 hours @ 200°C; ASTM D412
	6.50 MPa	943 psi	ASTM D412
Elongation at Break	82.96 %	82.96 %	-32% change after 336 hours @ 200°C; ASTM D412
	122 %	122 %	ASTM D412
Compression Set	14 %	14 %	24 hours @ 150°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 °C	482 °F	
Minimum Service Temperature, Air	-65.0 °C	-85.0 °F	
	-50.0 °C	-58.0 °F	Temperature at which modulus shall not exceed 70 Mpa
Flash Point	>= 300 °C	>= 572 °F	

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