

Precision Polymer Engineering S50E Silicone Rubber

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

Material Notes:

Red iron oxide filled, Phenyl Silicone Rubber, 45-55 °IRHD. Silicone rubber having methyl, vinyl and phenyl substituent groups on the polymer chain. To meet UK Ministry of Defence Aerospace Specification DTD818 Class M2. ASTM & ISO designation = PVMQ. Applications: Excellent heat resistance plus ultra-low temperature flexibility. Used primarily for dry heat static seals. Low physical strength and poor abrasion resistance prevents dynamic sealing. Although silicone will swell in petroleum lubricants, this is not necessarily detrimental in static sealing applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-S50E-Silicone-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	°IRHD; ASTM D1415
	65	65	°IRHD, +15 change after 336 hours @ 200°C; ASTM D1415
Tensile Strength, Yield	3.105 MPa	450.3 psi	-25% change after 336 hours @ 200°C; ASTM D412
	4.14 MPa	600 psi	ASTM D412
Elongation at Break	50 %	50 %	-75% change after 336 hours @ 200°C; ASTM D412
	200 %	200 %	ASTM D412
Compression Set	30 %	30 %	70 hours @ 100°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 °C	482 °F	
Minimum Service Temperature, Air	-90.0 °C	-130 °F	
	-90.0 °C	-130 °F	Non-brittle after 3 minutes
Flash Point	>= 300 °C	>= 572 °F	

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