

Precision Polymer Engineering S50H Silicone Rubber

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

Material Notes:

White Silicone Rubber, 45-55 °IRHD. Silicone rubber having both methyl and vinyl substituent groups on the polymer chain. Formulated using only those ingredients determined by the United States Federal Food and Drug Administration (FDA) to be in accordance with Code of Federal Regulations, Title 21 (CFR21), Section 177.2600. ASTM & ISO designation = VMQ. Applications: Excellent heat resistance and 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-S50H-Silicone-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	°IRHD; ASTM D1415
Tensile Strength, Yield	9.00 MPa	1310 psi	ASTM D412
Elongation at Break	550 %	550 %	ASTM D412
Compression Set	30 %	30 %	24 hours @ 175°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 °C	482 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
	-60.0 °C	-76.0 °F	Non-brittle after 3 minutes
Flash Point	>= 300 °C	>= 572 °F	

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