

Precision Polymer Engineering S80Y Silicone Rubber

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

Material Notes:

Yellow Silicone Rubber, 76-85 °IRHD. Silicone rubber having both methyl and vinyl substituent groups on the polymer chain. ASTM & ISO designation = VMQ. Applications: Excellent heat resistance and low temperature flexibility combined with low compression set performance. 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-S80Y-Silicone-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	°IRHD; ASTM D1415
	70 - 90	70 - 90	°IRHD, ±10 change after 70 hours @ 200°C; ASTM D1415
Tensile Strength, Yield	5.625 MPa	815.8 psi	-25% change after 70 hours @ 200°C; ASTM D412
	7.50 MPa	1090 psi	ASTM D412
Elongation at Break	137.5 %	137.5 %	-45% change after 70 hours @ 200°C; ASTM D412
	250 %	250 %	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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