

Precision Polymer Engineering S60B Silicone Rubber

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

Material Notes:

Black Silicone Rubber, 55-65 °IRHD. Silicone rubber having both methyl and vinyl substituent groups on the polymer chain. Formulated using only those ingredients determined by the United States Food and Drug Administration (FDA) to be in accordance with Code of Federal Regulations Title 21 (CFR21), Section 177.2600. ASTM & ISI 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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-S60B-Silicone-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	°IRHD; ASTM D1415
	50 - 70	50 - 70	°IRHD, ±10 change after 70 hours @ 200°C; ASTM D1415
Tensile Strength, Yield	6.00 MPa	870 psi	-25% change after 70 hours @ 200°C; ASTM D412
	8.00 MPa	1160 psi	ASTM D412
Elongation at Break	220 %	220 %	-45% change after 70 hours @ 200°C; ASTM D412
	400 %	400 %	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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