

Precision Polymer Engineering S70G Silicone Rubber

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

Material Notes:

Green Silicone Rubber, 66-75 °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 both non-toxic and non-carcinogenic 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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-S70G-Silicone-Rubber.php

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------|----------|--|
| Hardness, Shore A | 70 | 70 | °IRHD; ASTM D1415 |
| | 60 - 80 | 60 - 80 | °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 | 192.5 % | 192.5 % | -45% change after 70 hours @ 200°C; ASTM D412 |
| | 350 % | 350 % | 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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