

Precision Polymer Engineering S80R Silicone Rubber

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

Material Notes:

Red 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-S80R-Silicone-Rubber.php

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------|----------|-----------------------------|
| Hardness, Shore A | 80 | 80 | °IRHD; ASTM D1415 |
| Tensile Strength, Yield | 9.00 MPa | 1310 psi | ASTM D412 |
| Elongation at Break | 300 % | 300 % | ASTM D412 |
| Compression Set | 25 % | 25 % | 70 hours @ 150°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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