

Precision Polymer Engineering S80D Silicone Rubber

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

Material Notes:

Black Silicone Rubber, 76-85 °IRHD. Silicone rubber having both methyl and vinyl substituent groups on the polymer chain. ASTM & ISO designation = VMQ. Formulated to meet UK Ministry of Defence Aircraft Materials Specification DTD5531A Grade 80. ASTM & ISO designation = VMQ. Applications: Sheets, mouldings and extrusions for mainly mechanical applications in contact with air within the quoted temperature range. They are not intended for liquid sealing or for application where low compression set is of prime importance. Occasional contamination by silicate ester and phosphate ester hydraulic fluids and greases is not unduly detrimental, provided the temperature is not excessive. Contact with fuels, light mineral oils, silicone liquids or greases derived from these should be avoided. Excellent ozone resistance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-S80D-Silicone-Rubber.php

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------|---------|--------------------------------------------------------|
| Hardness, Shore A | 80 | 80 | °IRHD; ASTM D1415 |
| | 77 - 87 | 77 - 87 | °IRHD, -3/+7 change after 70 hours @ 200°C; ASTM D1415 |
| Tensile Strength, Yield | 5.20 MPa | 754 psi | -20% change after 70 hours @ 200°C; ASTM D412 |
| | 6.50 MPa | 943 psi | ASTM D412 |
| Elongation at Break | 105 % | 105 % | -30% change after 70 hours @ 200°C; ASTM D412 |
| | 150 % | 150 % | ASTM D412 |
| Compression Set | 15 % | 15 % | 24 hours @ 175°C; ASTM D395 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|-----------|-----------|-----------------------------|
| Maximum Service Temperature, Air | 250 °C | 482 °F | |
| Minimum Service Temperature, Air | -65.0 °C | -85.0 °F | |
| | -65.0 °C | -85.0 °F | Non-brittle after 3 minutes |
| Flash Point | >= 300 °C | >= 572 °F | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China