

Precision Polymer Engineering S70S Conductive Silicone Rubber

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

Material Notes:

Tan coloured, Silicone Rubber, 71-80 °IRHD. Electrically conductive, Silver/Aluminum filled silicone rubber. Applications: Specially compounded to offer excellent physical and electrical properties over an effective temperature range of -50° to +160°C. It has good resistance to chemicals and weathering. Resistance to mineral based oils and greases is poor, but it can withstand limited splash contact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-S70S-Conductive-Silicone-Rubber.php

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-------------|------------|-----------------------------|
| Hardness, Shore A | 75 | 75 | °IRHD; ASTM D1415 |
| Tensile Strength, Yield | >= 1.75 MPa | >= 254 psi | ASTM D412 |
| Elongation at Break | >= 150 % | >= 150 % | ASTM D412 |
| Compression Set | 30 % | 30 % | 70 hours @ 100°C; ASTM D395 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|-----------|-----------|----------|
| Maximum Service Temperature, Air | 160 °C | 320 °F | |
| Minimum Service Temperature, Air | -50.0 °C | -58.0 °F | |
| Flash Point | >= 300 °C | >= 572 °F | |

| Electrical Properties | Metric | English | Comments |
|-------------------------|------------------|------------------|------------------------|
| Volume Resistivity | <= 0.0050 ohm-cm | <= 0.0050 ohm-cm | Mil G 83528 |
| Shielding Effectiveness | 70 dB | 70 dB | @ 110 kHz; Mil Std 285 |
| | >= 120 dB | >= 120 dB | @ 1 MHz; Mil Std 285 |
| | 120 dB | 120 dB | @ 10 MHz; Mil Std 285 |

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