

Precision Polymer Engineering S70L Conductive Silicone Rubber

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

Material Notes:

Tan coloured, Silicone Rubber, 66-75 °IRHD. Electrically conductive, Silver/Aluminum filled silicone rubber. Equivalent to Mil G 83528 Type D. 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-S70L-Conductive-Silicone-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	°IRHD; ASTM D1415
Tensile Strength, Yield	>= 1.25 MPa	>= 181 psi	ASTM D412
Elongation at Break	>= 100 %	>= 100 %	ASTM D412
Compression Set	30 %	30 %	70 hours @ 70°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	<= 0.0080 ohm-cm	<= 0.0080 ohm-cm	Mil G 83528
Shielding Effectiveness	70 dB	70 dB	@ 200 kHz; Mil Std 285
	100 dB	100 dB	@ 2 GHz; Mil Std 285
	100 dB	100 dB	@ 10 GHz; Mil Std 285
	105 dB	105 dB	@ 500 MHz; Mil Std 285
	110 dB	110 dB	@ 100 MHz; Mil Std 285

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