

P & P Technology EC-J Silver Aluminum Loaded Silicone

Category : Polymer , Thermoset , Silicone , Silicone Rubber

Material Notes:

P & P Technology material reference EC-J is a silicone elastomer with a Silver/Aluminum conductive filler. The material is specially compounded to offer excellent physical and electrical properties over an effective temperature range of –55 to +160°C. Silicone offers excellent performance over a wide temperature range with good resistance to chemicals and weathering. Its resistance to mineral based fluids is limited, but it has good splash resistance to most mineral oils and greases. Information provided by P & P Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_P-P-Technology-EC-J-Silver-Aluminum-Loaded-Silicone.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.00 - 2.20 g/cc	2.00 - 2.20 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 - 65	55 - 65	ASTM D2240
Tensile Strength	1.70 MPa	247 psi	ASTM D412
Elongation at Break	>= 110 %	>= 110 %	ASTM D412
Compression Set	<= 30 % @Temperature 100 °C, Time 259000 sec	<= 30 % @Temperature 212 °F, Time 72.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	160 °C	320 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.0080 ohm-cm	<= 0.0080 ohm-cm	Mil-G-83528
Shielding Effectiveness	79 dB @Frequency 200000 Hz	79 dB @Frequency 200000 Hz	Mil-G-83528/Mil std 285
	102 dB @Frequency 2.00e+9 Hz	102 dB @Frequency 2.00e+9 Hz	Mil-G-83528/Mil std 285
	105 dB @Frequency 1.00e+8 Hz	105 dB @Frequency 1.00e+8 Hz	Mil-G-83528/Mil std 285

Electrical Properties	108 dB Metric	108 dB English	Comments
	@Frequency 5.00e+8 Hz	@Frequency 5.00e+8 Hz	Mil-G-83528/Mil std 285
	110 dB	110 dB	
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	Mil-G-83528/Mil std 285

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