

P & P Technology EC-H Silver Copper Loaded Fluorosilicone

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

Material Notes:

P & P Technology material reference EC-H is a printing grade fluorosilicone elastomer with a Silver/Copper conductive filler and is green in color. The material is specially compounded to offer excellent physical and electrical properties over an effective temperature range of – 55°C to +160°C. Fluorosilicone offers excellent performance over a wide temperature range with good resistance to chemicals, mineral based oils/greases and weathering. Information provided by P & P Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_P-P-Technology-EC-H-Silver-Copper-Loaded-Fluorosilicone.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.60 - 3.80 g/cc	3.60 - 3.80 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength	1.50 MPa	218 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	<= 0.0050 ohm-cm	<= 0.0050 ohm-cm	Mil-G-83528
Shielding Effectiveness	75 dB @Frequency 200000 Hz	75 dB @Frequency 200000 Hz	Mil-G-83528/Mil std 285
	100 dB @Frequency 1.00e+8 Hz	100 dB @Frequency 1.00e+8 Hz	Mil-G-83528/Mil std 285
	101 dB @Frequency 2.00e+9 Hz	101 dB @Frequency 2.00e+9 Hz	Mil-G-83528/Mil std 285
	105 dB	105 dB	

Electrical Properties	Metric	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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