

## P & P Technology EC-H Silver Copper Loaded Silicone

Category : Polymer , Thermoset , Silicone , Silicone Rubber

### Material Notes:

P & P Technology material reference EC-H is a printing grade silicone elastomer with a Silver/Copper conductive filler and is Tan 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. 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-H-Silver-Copper-Loaded-Silicone.php](http://www.lookpolymers.com/polymer_P-P-Technology-EC-H-Silver-Copper-Loaded-Silicone.php)

Physical Properties	Metric	English	Comments
Specific Gravity	3.40 - 3.60 g/cc	3.40 - 3.60 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength	2.10 MPa	305 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

Electrical Properties	105 dB Metric	105 dB English	Comments Mil-G-83528/Mil std 285
	@Frequency 5.00e+8 Hz	@Frequency 5.00e+8 Hz	
	110 dB	110 dB	Mil-G-83528/Mil std 285
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	

## Contact Songhan Plastic Technology Co.,Ltd.

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