

Parker Chomerics Tecknit Consil®-C 871 Silver-Copper Filled Silicone Elastomer

Category : Polymer , Thermoset , Silicone

Material Notes:

Description: CONSIL-C is a silicone or fluorosilicone elastomer filled with silver-plated copper particles designed to achieve maximum electrical conductivity. CONSIL-C provides one of the highest shielding effectiveness of any conductive elastomer material, in addition to offering excellent moisture sealing for all enclosure joints and seam. Typical Applications: The MIL-DTL-83528 certified compounds meet the demanding requirements of many military and aerospace systems, and as gaskets for waveguides and connectors. In addition, CONSIL-C can also be used for EMP and TEMPEST application. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-Tecknit-Consil-C-871-Silver-Copper-Filled-Silicone-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.045 - 3.955 g/cc	3.045 - 3.955 g/cc	ASTM D792
Deformation	10 %	10 %	10 pli; 0.125" diameter cord
	10 %	10 %	39 pli; 0.125" by 0.25" strip
	20 %	20 %	20 pli; 0.125" diameter cord
	20 %	20 %	77 pli; 0.125" by 0.25" strip

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	58 - 72	58 - 72	ASTM D2240
Tensile Strength	>= 1.38 MPa	>= 200 psi	ASTM D412
Elongation at Break	100 - 300 %	100 - 300 %	ASTM D412
Tear Strength	4.38 kN/m	25.0 pli	ASTM D624

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 °C	257 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.0040 ohm-cm	<= 0.0040 ohm-cm	
Shielding Effectiveness	75 dB	75 dB	H-Field
	@Frequency 100000 Hz	@Frequency 100000 Hz	

Electrical Properties	110 dB Metric	110 dB English	Comments Plane Wave
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	
	115 dB	115 dB	Plane Wave
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	
	>= 120 dB	>= 120 dB	E-Field
	@Frequency 1.00e+7 Hz	@Frequency 1.00e+7 Hz	

Descriptive Properties	Value	Comments
Binder	Silicone	
Color	Gray	
Filler	Silver Plated Copper Particles	

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