

Parker Chomerics Tecknit Consil®-II 841 Molded Silver-Filled Silicone Elastomer

Category : Polymer , Thermoset , Silicone

Material Notes:

Description: CONSIL-II is a molded silicone elastomer filled with silver-coated inert particles. It provides high electrical conductivity, broadband shielding and moisture sealing. CONSIL-II is designed to provide reliable cost effective shielding for a wide range of EMI applications. CONSIL-II is manufactured in sheets, molded parts, strips, and die cut flat gaskets. Applications: CONSIL-II should be used where there is a need for high broadband shielding combined with excellent moisture sealing properties. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-Tecknit-Consil-II-841-Molded-Silver-Filled-Silicone-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.55 - 2.05 g/cc	1.55 - 2.05 g/cc	ASTM D792
Deformation	10 %	10 %	5 pli; 0.125" diameter cord
	10 %	10 %	18 pli; 0.125" by 0.25" strip
	20 %	20 %	10 pli; 0.125" diameter cord
	20 %	20 %	41 pli; 0.125" by 0.25" strip

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	37 - 57	37 - 57	ASTM D2240
Tensile Strength	>= 0.689 MPa	>= 100 psi	ASTM D412
Elongation at Break	>= 120 %	>= 120 %	ASTM D412
Tear Strength	6.14 kN/m	35.0 pli	ASTM D624

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	177 °C	351 °F	
Minimum Service Temperature, Air	-51.0 °C	-59.8 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.010 ohm-cm	<= 0.010 ohm-cm	
Shielding Effectiveness	75 dB @Frequency 100000 Hz	75 dB @Frequency 100000 Hz	H-Field
	90 dB	90 dB	

Electrical Properties	Metric	English	Plane Wave
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	
	>= 100 dB	>= 100 dB	
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	Plane Wave
	130 dB	130 dB	
	@Frequency 1.00e+7 Hz	@Frequency 1.00e+7 Hz	E-Field

Descriptive Properties	Value	Comments
Binder	Silicone	
Color	Tan	
Filler	Silver-plated glass particles	

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