

Parker Chomerics Tecknit Consil®-E 815 Extruded Silver-Filled Silicone Elastomer

Category : Polymer , Thermoset , Silicone

Material Notes:

Description: CONSIL-E is a continuously extruded silicone elastomer filled with silver-plated inert particles. It is a medium hardness material providing high electrical conductivity and moisture sealing. CONSIL-E is available in a variety of standard cross-sections: rectangular, round, "D" shape, "U" channels, "P" shapes and various thin wall constructions. Custom cross sections are available per customer specifications. CONSIL-E is designed to provide reliable cost effective shielding and is especially ideal for a wide range of commercial and telecommunications EMI applications. Applications: CONSIL-E is intended primarily for groove and flange mounting applications. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-Tecknit-Consil-E-815-Extruded-Silver-Filled-Silicone-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.85 - 2.35 g/cc	1.85 - 2.35 g/cc	ASTM D792
Deformation	10 %	10 %	3.7 pli; 0.06" OD by 0.04" ID tube
	30 %	30 %	11 pli; 0.06" OD by 0.04" ID tube
	50 %	50 %	17.8 pli; 0.06" OD by 0.04" ID tube

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	53 - 67	53 - 67	ASTM D2240
Tensile Strength	>= 0.345 MPa	>= 50.0 psi	ASTM D412
Elongation at Break	>= 50 %	>= 50 %	ASTM D412
Tear Strength	3.51 kN/m	20.0 pli	ASTM D624

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	177 °C	351 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.030 ohm-cm	<= 0.030 ohm-cm	
Shielding Effectiveness	65 dB	65 dB	H-Field
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	>= 90 dB	>= 90 dB	

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

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

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