

Parker Chomerics Tecknit Consil®-A 897 Silver-Aluminum Filled Silicone Elastomer

Category : Polymer , Thermoset , Silicone

Material Notes:

Description: CONSIL-A is a silicone or fluorosilicone elastomer filled with silver-plated aluminum particles designed to achieve maximum electrical conductivity. CONSIL-A provides high shielding effectiveness with minimal galvanic corrosion. Lighter in weight than other high performance conductive elastomers, CONSIL-A provides an excellent moisture seal for enclosure joints and seams. Typical Applications:

The MILG-83528 certified compounds meet the demanding requirements of many military and aerospace systems, high frequency microwave environments and wave guide connector gaskets. EMP and TEMPEST requirements are ideal applications for CONSIL-

A. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-Tecknit-Consil-A-897-Silver-Aluminum-Filled-Silicone-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.74 - 2.26 g/cc	1.74 - 2.26 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	63 - 77	63 - 77	ASTM D2240
Tensile Strength	>= 1.24 MPa	>= 180 psi	ASTM D412
Elongation at Break	60 - 260 %	60 - 260 %	ASTM D412
Tear Strength	6.14 kN/m	35.0 pli	ASTM D624

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	<= 0.012 ohm-cm	<= 0.012 ohm-cm	
Shielding Effectiveness	55 dB	55 dB	H-Field
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	90 dB	90 dB	Plane Wave
@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz		
	100 dB	100 dB	Plane Wave

Electrical Properties	@Frequency 1.00e+9 Metric Hz	@Frequency 1.00e+9 English Hz	Comments
	110 dB	110 dB	E-Field
	@Frequency 1.00e+7 Hz	@Frequency 1.00e+7 Hz	

Descriptive Properties	Value	Comments
Binder	Fluorosilicone	
Color	Blue	
Filler	Silver Plated Aluminum Particles	

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