

Parker Chomerics Tecknit SC-Consil® FR861 Carbon-Filled Silicone Elastomer

Category : Polymer , Thermoset , Silicone

Material Notes:

Description: SC-CONSIL is a silicone elastomer filled with carbon particles. It provides superior shielding and a reliable environmental seal.

The combination of carbon particles and silicone allows SC-CONSIL to maintain its physical and electrical properties over an extremely wide temperature range. SC-CONSIL is manufactured in sheets, molded and continuously extruded strips, and in die-cut gasket.

Applications SC-CONSIL provides excellent voltage handling capabilities for grounding, lower current densities, and is ideal for static discharge and corona applications. Various extruded shapes designed for groove and flange mounting, such as tubes and P-shapes, provide maximum deflection at low to medium closure pressures. SC-CONSIL also provides a good environmental seal under moderate closing forces.

Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-Tecknit-SC-Consil-FR861-Carbon-Filled-Silicone-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 - 1.28 g/cc	1.22 - 1.28 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60 - 75	60 - 75	ASTM D2240
Tensile Strength	>= 4.48 MPa	>= 650 psi	ASTM D412
Elongation at Break	>= 100 %	>= 100 %	ASTM D412
Tear Strength	8.77 kN/m	50.0 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	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 15 ohm-cm	<= 15 ohm-cm	
Shielding Effectiveness	56 dB	56 dB	Plane Wave
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	
	72 dB	72 dB	E-Field
	@Frequency 1.00e+7 Hz	@Frequency 1.00e+7 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	Plane Wave
	93 dB	93 dB	H-Field
	@Frequency 100000 Hz	@Frequency 100000 Hz	

Descriptive Properties	Value	Comments
Binder	Silicone	
Color	Black	
Filler	Carbon	

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