

Parker Chomerics Tecknit NC-Consil® FR750 Nickel Coated Graphite Filled Silicone Elastomer

Category : Polymer , Thermoset , Silicone

Material Notes:

Description: NC-Consil is a silicone elastomer filled with Nickel coated graphite carbon particles. It provides high electrical conductivity, broadband shielding and environmental sealing. NC-Consil is designed to provide reliable cost effective shielding for a wide range of EMI applications ideal for the commercial market. Typical Applications: NC-Consil should be used where there is a need for high broadband shielding combined with excellent environmental sealing properties. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-Tecknit-NC-Consil-FR750-Nickel-Coated-Graphite-Filled-Silicone-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.827 - 2.373 g/cc	1.827 - 2.373 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50 - 70	50 - 70	ASTM D2240
Tensile Strength	>= 1.03 MPa	>= 150 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	160 °C	320 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.10 ohm-cm	<= 0.10 ohm-cm	
Shielding Effectiveness	89 dB	89 dB	Plane Wave
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	
	90 dB	90 dB	Plane Wave
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	
	100 dB	100 dB	H-Field

Electrical Properties	@Frequency 100000 Hz Metric	@Frequency 100000 Hz English	Comments
	100 dB	100 dB	
	@Frequency 1.00e+7 Hz	@Frequency 1.00e+7 Hz	E-Field

Descriptive Properties	Value	Comments
Binder	Silicone	
Color	Dark Gray	
Filler	Nickel Coated Graphite	

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