

Parker Chomerics Tecknit NC-Consil® 770 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-770-Nickel-Coated-Graphite-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
Deformation	10 %	10 %	5 pli
	20 %	20 %	10 pli
	30 %	30 %	25 pli
	50 %	50 %	85 pli
	60 %	60 %	155 pli
	65 %	65 %	205 pli

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60 - 80	60 - 80	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	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.10 ohm-cm	<= 0.10 ohm-cm	
	85 dB	85 dB	

Shielding Effectiveness Electrical Properties	Metric @Frequency 1.00e+10 Hz	English @Frequency 1.00e+10 Hz	Plane Wave Comments
	100 dB	100 dB	H-Field
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	100 dB	100 dB	E-Field
	@Frequency 1.00e+7 Hz	@Frequency 1.00e+7 Hz	
	100 dB	100 dB	Plane Wave
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	

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

Contact Songhan Plastic Technology Co.,Ltd.

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