

Parker Chomerics Tecknit Consil®-N 891 Silver-Nickel Filled Silicone Elastomer

Category : Polymer , Thermoset , Silicone

Material Notes:

Description: CONSIL-N is a silicone elastomer filled with silver-plated nickel particles and designed to provide high shielding effectiveness and corrosion resistance. CONSIL-N is available in sheets and die-cut or molded gaskets. Typical Applications: CONSIL-N is an excellent conductive elastomer for use in applications requiring EMI/EMP shielding and environmental sealing. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-Tecknit-Consil-N-891-Silver-Nickel-Filled-Silicone-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.48 - 4.52 g/cc	3.48 - 4.52 g/cc	ASTM D792
Deformation	10 %	10 %	10 pli; 0.125" diameter cord
	10 %	10 %	25 pli; 0.125" by 0.25" strip
	20 %	20 %	22 pli; 0.125" diameter cord
	20 %	20 %	52 pli; 0.125" by 0.25" strip

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	68 - 82	68 - 82	ASTM D2240
Tensile Strength	>= 1.38 MPa	>= 200 psi	ASTM D412
Elongation at Break	100 - 300 %	100 - 300 %	ASTM D412
Tear Strength	5.26 kN/m	30.0 pli	ASTM D624

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 °C	257 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.0050 ohm-cm	<= 0.0050 ohm-cm	
Shielding Effectiveness	75 dB	75 dB	H-Field
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	100 dB	100 dB	Plane Wave
	@Frequency 1.00e+10	@Frequency 1.00e+10	

Electrical Properties	Hz Metric	Hz English	Comments
	110 dB	110 dB	Plane Wave
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	
	120 dB	120 dB	E-Field
	@Frequency 1.00e+7 Hz	@Frequency 1.00e+7 Hz	

Descriptive Properties	Value	Comments
Binder	Silicone	
Color	Gray	
Filler	Silver Plated Nickel Particles	

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