

Parker Chomerics Tecknit Consil®-R 855 Pure Silver-Filled Silicone Elastomer

Category : Polymer , Thermoset , Silicone

Material Notes:

Description: CONSIL-RHT 855 is a pure silver-filled silicone elastomer ideal for applications where high temperature is a concern Typical

Applications: CONSIL-RHT 855 silicone is used throughout industry for seals, gaskets, electrical connectors, electromagnetic shields and other applications subjected to severe operating conditions. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-Tecknit-Consil-R-855-Pure-Silver-Filled-Silicone-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.045 - 3.955 g/cc	3.045 - 3.955 g/cc	ASTM D792
Deformation	10 %	10 %	10 pli; 0.125" diameter cord
	10 %	10 %	43 pli; 0.125" by 0.25" strip
	20 %	20 %	18 pli; 0.125" diameter cord
	20 %	20 %	77 pli; 0.125" by 0.25" strip

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60 - 70	60 - 70	ASTM D2240
Tensile Strength	>= 2.07 MPa	>= 300 psi	ASTM D412
Elongation at Break	>= 200 %	>= 200 %	ASTM D412
Tear Strength	7.01 kN/m	40.0 pli	ASTM D624

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	200 °C	392 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.0020 ohm-cm	<= 0.0020 ohm-cm	
Shielding Effectiveness	70 dB	70 dB	H-Field
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	100 dB	100 dB	Plane Wave
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	

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

Descriptive Properties	Value	Comments
Binder	Silicone	
Color	Red-Brown	
Filler	Pure Silver	

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