

Rogers Corporation Bisco® EC-2040 Conductive Silicone

Category : Polymer , Thermoset , Silicone

Material Notes:

Base Polymer: Silicone Filler: Nickel-Graphite Applications: Silicone EMI Shields Thickness: 0.020 inches and 0.031 inches Information provided by Rogers Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Rogers-Corporation-Bisco-EC-2040-Conductive-Silicone.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.18 g/cc	2.18 g/cc	
Thickness	508 - 787 microns	20.0 - 31.0 mil	Range of Thicknesses Available

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	ASTM D2240
Hardness, Shore OO	85	85	ASTM D2240
Tensile Strength	>= 0.621 MPa	>= 90.0 psi	ASTM D142
Elongation at Break	<= 60 %	<= 60 %	ASTM D412
Compression Set	3.0 %	3.0 %	% of thickness; ASTM D3574
	@Temperature 70.0 °C	@Temperature 158 °F	
	6.0 %	6.0 %	% of thickness; ASTM D395 Method B
	@Temperature 100 °C	@Temperature 212 °F	
	12 %	12 %	% of deflection; ASTM D3574
	@Temperature 70.0 °C	@Temperature 158 °F	
	22 %	22 %	% of deflection; ASTM D395 Method B
	@Temperature 100 °C	@Temperature 212 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.20 ohm-cm	0.20 ohm-cm	Rogers Corp. Internal
Shielding Effectiveness	85 dB	85 dB	MIL G83528
	@Thickness 0.508 mm, Frequency 1.00e+10 Hz	@Thickness 0.0200 in, Frequency 1.00e+10 Hz	
	110 dB	110 dB	MIL G83528
	@Thickness 0.508 mm, Frequency 1.00e+9 Hz	@Thickness 0.0200 in, Frequency 1.00e+9 Hz	

Electrical Properties	Metric	English	Comments
	@Thickness 0.508 mm, Frequency 1.00e+8 Hz	@Thickness 0.0200 in, Frequency 1.00e+8 Hz	MIL G83528
	120 dB	120 dB	
	@Thickness 0.508 mm, Frequency 5.00e+8 Hz	@Thickness 0.0200 in, Frequency 5.00e+8 Hz	MIL G83528

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