

**BISCO® Silicones**
*Typical Product Properties*
**BISCO® EC-2000 Series Conductive Silicone**

TYPICAL PROPERTIES	Test Method	EC-2040	EC-2130
Filler		Nickel-Graphite	
Base Polymer		Silicone	
Specific Gravity, g/cc		2.18	1.97
<b>Thickness:</b>			
inches		0.020 and 0.031	0.063 and 0.125
mm		0.5 and 0.8	1.6 and 3.2
<b>Hardness:</b>			
Shore A	ASTM D 2240	40	30
Shore OO		85	80
<b>Tensile Strength</b> , psi, min.	ASTM D 412	90	50
<b>Elongation</b> , %, min.		60	50
<b>Compression Set @ 100°C,</b> 25% compressed:	ASTM D 395 (Method B)		
% of thickness		6	7
% of deflection		22	25
<b>Compression Set @ 70°C,</b> 25% compressed	ASTM D 3574		
% of thickness		3	5
% of deflection		12	17
<b>Volume Resistivity</b> , Ohm-cm (expression of conductivity)	Rogers Corporation Internal	0.2	0.3
<b>Shielding Effectiveness</b> , dB:	At Thickness:	0.020"	0.063"
100MHz	MIL G83528	120	100
500MHz	MIL G83528	120	100
1GHz	MIL G83528	110	110
10GHz	MIL G83528	85	85

**Notes:**

1. All metric conversions are approximate.
2. Additional technical information is available.
3. Other thicknesses can be produced between the range stated for each product type, minimum order quantities apply.
4. Typical values are a representation of an average value for the population. For specification values contact Rogers Corporation.

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