

EC-2000 SERIES CONDUCTIVE SILICONES

TYPICAL PROPERTIES	Test Method	EC-2040		EC-2130	
Filler		Nickel-Graphite			
Base Polymer		Silicone			
Specific Gravity, g/cc		2.18		1.97	
Thickness:					
inches		0.020 - 0.063		0.063 - 0.125	
mm		0.50 - 1.59		1.59 - 3.18	
Hardness:					
Shore A	ASTM D 2240	40		30	
Shore OO		85		80	
Tensile Strength, psi, min.	ASTM D 412	90		50	
Elongation, %, min.		60		50	
Compression Set @ 100°C, 25% compressed:	ASTM D 395 (Method B)				
% of thickness		6		7	
% of deflection		22		25	
Compression Set @ 70°C, 25% compressed	ASTM D 3574				
% of thickness		3		5	
% of deflection		12		17	
At Thickness indicated:	Horizontal	0.020	0.031	0.063	0.125
Flame Resistance, UL94*	Horizontal	HB	HB	HB	HB
	Vertical	V-1	V-1	*	V-1
Volume Resistivity, Ohm-cm (expression of conductivity)	Rogers Corporation Internal	0.2		0.3	
Shielding Effectiveness, 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	

* UL file No. E83967 reflects UL94 vertical and horizontal rating results.

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