

## Exceptionally Soft Thermal Conductive Gel Pad

LiPOLY BS87-s is an ultra-soft thermally conductive gel pad with a thermal conductivity of 3.0 W/m\*K. BS87-s offers excellent compression under minimal force with high recovery characteristics. This product can be supplied as standard sheets, custom die-cuts or custom molded parts.

### FEATURES

- / Thermal conductivity: 3.0 W/m\*K
- / High compression rate
- / Low thermal impedance
- / High recovery
- / Available in a range of thicknesses

### TYPICAL APPLICATION

- / Between CPU and heat sink
- / Between a component and heat sink
- / Notebook computers
- / Power supplies
- / High speed mass storage drives
- / Telecommunication hardware

### SPECIFICATIONS

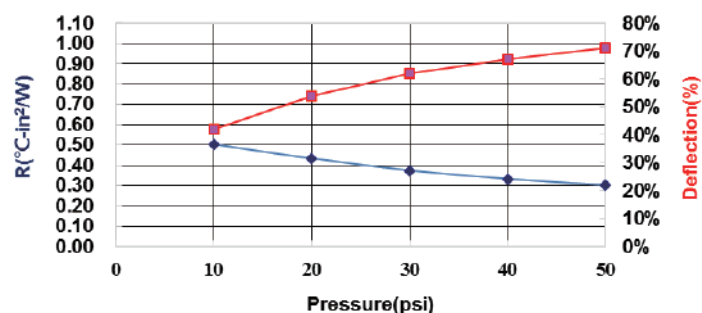
- / Sheet form
- / Die-cut parts



### TYPICAL PROPERTIES

PROPERTY	BS87-s	TEST METHOD	UNIT
Color	Gray	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	2.8	ASTM D792	g/cm <sup>3</sup>
Hardness	10	ASTM D2240	Shore OO
Application temperature	-60~180	-	°C
ROHS & REACH	Compliant	-	-
<b>COMPRESSION@1.0mm</b>			
Deflection @10 psi	42	ASTM D5470 modify	%
Deflection @20 psi	54	ASTM D5470 modify	%
Deflection @30 psi	62	ASTM D5470 modify	%
Deflection @40 psi	67	ASTM D5470 modify	%
Deflection @50 psi	71	ASTM D5470 modify	%
<b>ELECTRICAL</b>			
Dielectric breakdown	8	ASTM D149	KV/mm
Surface resistivity	>10 <sup>11</sup>	ASTM D257	Ohm
Volume resistivity	>10 <sup>10</sup>	ASTM D257	Ohm-m
<b>THERMAL</b>			
Thermal conductivity	3.0	ASTM D5470	W/m*K
Thermal impedance@10 psi	0.502	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@20 psi	0.433	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@30 psi	0.374	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@40 psi	0.332	ASTM D5470	°C-in <sup>2</sup> / W
Thermal impedance@50 psi	0.301	ASTM D5470	°C-in <sup>2</sup> / W

### Thermal Resistance vs. Pressure vs. Deflection



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