

BS87

Exceptionally Soft Thermal Conductive Gel

LiPOLY BS87 is an exceptionally soft thermal conductive gel with a thermal conductivity of 3.0 W/m*K. BS87 offers excellent compression under minimal force with high resilience. This product can be supplied as standard sheets, custom die-cuts or custommolded parts making it suitable for a wide range of applications.

Features-

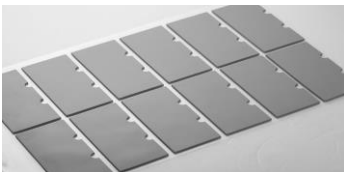
- Thermal conductivity: 3.0 W/m*K
- High compression rate
- Low thermal impedance
- Low oil-bleeding
- High recovery
- Available in a range of thicknesses

Typical Applications-

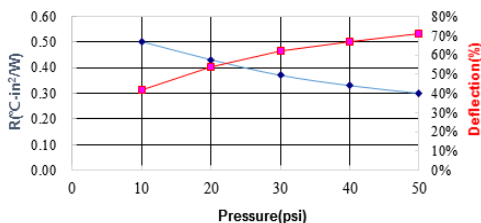
- Between CPU and heat sink.
- Between a component and heat sink
- Notebook computers
- Power supplies
- High speed mass storage drives
- Telecommunication hardware

Specifications-

- Sheet form
- Die-cut parts



Thermal Resistance vs. Pressure vs. Deflection



Typical Properties-

PROPERTY	BS87	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 ³
Hardness	10	ASTM D2240	Shore OO
Application temperature	-60~180	-	°C

COMPRESSION@1.0mm

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	%

ELECTRICAL

Dielectric breakdown	8	ASTM D149	KV/mm
Surface resistivity	>10 ¹¹	ASTM D257	Ohm
Volume resistivity	>10 ¹⁰	ASTM D257	Ohm-m

THERMAL

Thermal Conductivity	3.0	ASTM D5470	W/m*K
Thermal impedance@10 psi	0.50	ASTM D5470	°C-in ² / W
Thermal impedance@20 psi	0.43	ASTM D5470	°C-in ² / W
Thermal impedance@30 psi	0.37	ASTM D5470	°C-in ² / W
Thermal impedance@40 psi	0.33	ASTM D5470	°C-in ² / W
Thermal impedance@50 psi	0.30	ASTM D5470	°C-in ² / W

FLAME RATING

UL Flammability class	V-0	UL94	-
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Oil Bleeding-

Size 30*30mm²
 Thickness 1.0mm
 Compression 50%
 Temperature 25°C
 Time 120h



Note:

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