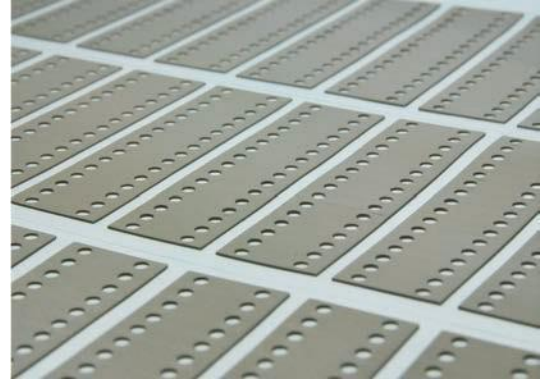


S818

Thermal Conductive Pad

LiPOLY S818 is the thermal conductive pad for gap filling, which can fit closely. The thermal conductivity is 3.2 / 5 W/m*K. The material is with great self-adhesiveness that can fit closely with not flatness heatsink to increase the contacting area. The low stress damped vibration, and shock absorption, which is an outstanding electric insulating material. LiPOLY's ability of research and development is providing our best thermal solution to customers, which can satisfy customer special requirement on advanced product.

The product is qualified for UL.



FEATURES-

- Thermal conductivity: 3.2/5 W/m*K
- Easy to assemble
- High reliability
- Shock and vibrating absorber

Typical Applications-

- Between a component and heat sink
- Flat-panel displays
- LED
- HDDs, DVDs
- Heat pipe assemblies
- Memory modules
- Power supplies

Specifications-

- Sheet form
- Die-cut parts

PROPERTY	S818	S818G	TEST METHOD	UNIT
Color	Brown	Gray	Visual	-
Surface tack 2-side/1-side	0	0	-	-
Thickness	0.5	0.5	ASTM D374	mm
Density	2.5	2.5	ASTM D792	g/cm ³
Hardness	18	25	ASTM D2240	Shore A
Application temperature	-60~200	-55~200	-	°C
Tensile Strength.	80	90	ASTM D412	psi
COMPRESSION				
Deflection @10 psi	6	5	-	%
Deflection @20 psi	13	9	-	%
Deflection @30 psi	17	12	-	%
Deflection @40 psi	20	14	-	%
Deflection @50 psi	23	16	-	%
ELECTRICAL				
Dielectric breakdown	>12	>10	ASTM D149	KV/mm
Surface resistivity	>10 ¹⁴	>10 ¹¹	ASTM D257	Ohm
Volume resistivity	>10 ¹¹	>10 ¹¹	ASTM D257	Ohm-m
THERMAL				
Thermal Conductivity	3.2	5	ASTM D5470	W/m*K
Thermal impedance@10 psi	0.81	0.58	ASTM D5470	°C-in ² /W
Thermal impedance@30 psi	0.78	0.55	ASTM D5470	°C-in ² /W
Thermal impedance@50 psi	0.76	0.52	ASTM D5470	°C-in ² /W
FLAME RATING				
UL Flammability class	V-0	V-0	UL94	-

* These data are provided for reference only. Engineers are reminded to test the material in varied application.