S818



High Ductile Thermal Conductive Pad

LiPOLY S818 is a product with high ductile thermal conductivity. Having good stretchability and high deformation. The toughness structure can enhance the operability and durability of material. It won't easy to break and deform whether stamped, punched, strip type, or custom cutting. Your best choice for shock and tolerance absorbing.

■ FEATURES

- / Thermal conductivity: 3.2 W/m*K
- / Easy to assemble
- / High reliability
- / Highly ductile and tear resistant
- / Shock and vibrating absorber

■ TYPICAL APPLICATION

- / Between CPU and heat sink.
- / Between a component and heat sink
- / Flat-panel displays
- / LED
- / HDDs.DVDs
- / Memory modules
- / Power supplies
- / 5G base station & infrastructure
- / EV electric vehicle

■ SPECIFICATIONS

- / Sheet form
- / Die-cut parts

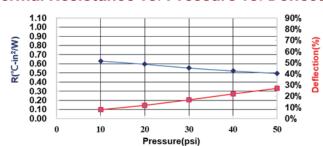




■ TYPICAL PROPERTIES

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PROPERTY	S818	TEST METHOD	UNIT
Color	Brown	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	2.7	ASTM D792	g/cm³
Hardness	18	ASTM D2240	Shore A
Application temperature	-60~180	-	°C
Tensile strength	0.44	ASTM D412	MPa
Elongation	81	ASTM D412	%
ROHS & REACH	Compliant	-	-
COMPRESSION@1.0mm			
Deflection @10 psi	8	ASTM D5470 modify	%
Deflection @20 psi	12	ASTM D5470 modify	%
Deflection @30 psi	17	ASTM D5470 modify	%
Deflection @40 psi	22	ASTM D5470 modify	%
Deflection @50 psi	27	ASTM D5470 modify	%
ELECTRICAL			
Dielectric breakdown	12	ASTM D149	KV/mm
Surface resistivity	>1011	ASTM D257	Ohm
Volume resistivity	>1010	ASTM D257	Ohm-m
THERMAL			
Thermal Conductivity	3.2	ASTM D5470	W/m*K
Thermal impedance@10 psi	0.631	ASTM D5470	°C-in²/ W
Thermal impedance@20 psi	0.596	ASTM D5470	°C-in²/ W
Thermal impedance@30 psi	0.554	ASTM D5470	°C-in²/ W
Thermal impedance@40 psi	0.522	ASTM D5470	°C-in²/ W
Thermal impedance@50 psi	0.495	ASTM D5470	°C-in²/ W
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Thermal Resistance vs. Pressure vs. Deflection



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