LiPOLY®
SHIU LI TECHNOLOGY CO.,LTD

S393

High Ductile Thermal Conductive Pad

LiPOLY S393 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

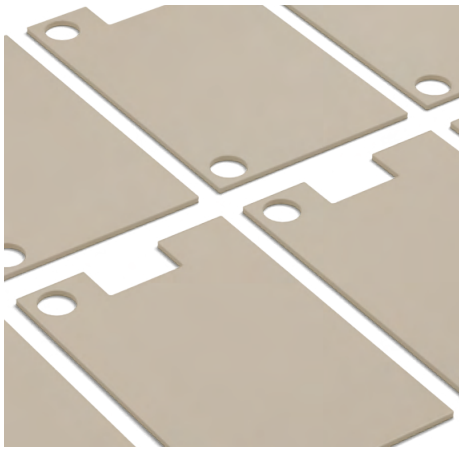
/ Thermal conductivity: 2.2 W/m*K
/ Easy to assemble
/ High reliability
/ Highly ductile and tear resistant
/ Shock and vibrating absorber

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

PROPERTY	S393	TEST METHOD	UNIT
Color	Light green	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	2.2	ASTM D792	g/cm³
Hardness	15	ASTM D2240	Shore A
Application temperature	-60~200	-	°C
Short time temp. @10min	-60~270	-	°C
Tensile strength	0.75	ASTM D412	MPa
Elongation	76	ASTM D412	%
ROHS & REACH	Compliant	-	-
COMPRESSION@1.0mm			
Deflection @10 psi	5	ASTM D5470 modify	%
Deflection @20 psi	8	ASTM D5470 modify	%
Deflection @30 psi	11	ASTM D5470 modify	%
Deflection @40 psi	14	ASTM D5470 modify	%
Deflection @50 psi	17	ASTM D5470 modify	%
ELECTRICAL			
Dielectric breakdown	15	ASTM D149	KV/mm
Surface resistivity	$>10^{11}$	ASTM D257	Ohm
Volume resistivity	$>10^{11}$	ASTM D257	Ohm-m
THERMAL			
Thermal conductivity	2.2	ASTM D5470	W/m*K
Thermal impedance@10 psi	1.075	ASTM D5470	°C-in²/ W
Thermal impedance@20 psi	1.033	ASTM D5470	°C-in²/ W
Thermal impedance@30 psi	0.986	ASTM D5470	°C-in²/ W
Thermal impedance@40 psi	0.953	ASTM D5470	°C-in²/ W
Thermal impedance@50 psi	0.932	ASTM D5470	°C-in²/ W

Thermal Impedance vs. Pressure vs. Deflection