SH1500/2000/3000

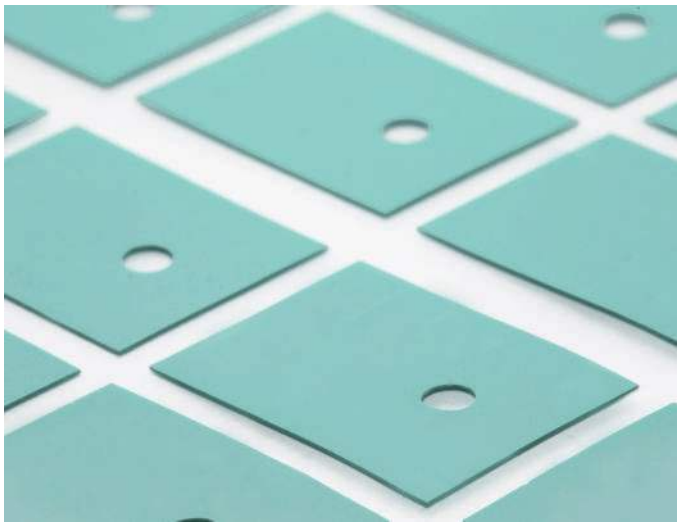
LiPOLY
SHIU LI TECHNOLOGY CO.,LTD

High Insulated Thermal Conductive Pad Series

LiPOLY SH1500/2000/3000 is a thermal insulator uses fiberglass cloth as a reinforcement material, combined with thermal conductive silicon, giving it high thermal conduction and great compression strength. The thermal conductivity is 1.5/2.0/3.0 W/m*K, the thickness is 0.25~0.45mm. Its high insulation and fiberglass materials increase the strength of its structure making it cut resistant. SH1500/2000/3000 is the best choice for high torque screw setting. It functions well with electrical isolative of high power electronic component and the heat sink.

FEATURES

/ Thermal conductivity:1.5/2.0/3.0 W/m*K
/ Excellent insulator
/ Reworkable
/ Fiberglass reinforced



TYPICAL APPLICATION

/ Power supplies
/ Motor controls
/ Automotive electronics

SPECIFICATIONS

/ Sheet form
/ Die-cut parts

TYPICAL PROPERTIES

PROPERTY	SH1500	SH2000	SH3000	TEST METHOD	UNIT
Color	Yellow	Green	Pink	Visual	-
Reinforced layer	Fiberglass	Fiberglass	Fiberglass	-	-
Thickness	0.23	0.30	0.35	ASTM D374	mm
Density	2.3	2.6	2.8	ASTM D792	g/cm³
Hardness	80	80	80	ASTM D2240	Shore A
Application temperature	-60~180	-60~180	-60~180	-	°C
ROHS	Compliant	Compliant	Compliant	-	-
ELECTRICAL					
Dielectric breakdown	4	5	5.5	ASTM D149	KV
Surface resistivity	$>10^{12}$	$>10^{12}$	$>10^{12}$	ASTM D257	Ohm
Volume resistivity	$>10^{12}$	$>10^{12}$	$>10^{10}$	ASTM D257	Ohm-m
THERMAL					
Thermal conductivity	1.5	2.0	3.0	ASTM D5470	W/m*K
Thermal impedance@20 psi	0.634	0.533	0.574	ASTM D5470	°C-in²/ W
Thermal impedance@60 psi	0.451	0.386	0.393	ASTM D5470	°C-in²/ W
Thermal impedance@100 psi	0.410	0.362	0.361	ASTM D5470	°C-in²/ W