LiPOLY®
SHIU LI TECHNOLOGY CO.,LTD

AT910

UL Flammability Thermal Conductive Tape

LiPOLY AT910 is a fiberglass reinforced thermally conductive tape with UL high temperature heat resistance. The thermal conductivity is 1.0 W/m*K. The stickiness and strength of the thermal tape will increase when temperatures and pressure rise. They are designed to securely bond heat sinks to power dissipating components without an additional clamping mechanism.

FEATURES

/ Thermal conductivity:1.0 W/m*K
/ Excellent adhesive properties
/ Designed for manufacture
/ Excellent long term reliability
/ Fiberglass reinforced layer

TYPICAL APPLICATION

/ Automotive electronics
/ Telecommunications
/ LED light bar & LED lamp
/ Between any heat-generating component and heat sink
/ 5G base station & infrastructure
/ EV electric vehicle

SPECIFICATIONS

/ Roll form / Sheet form
/ Die-cut parts

TYPICAL PROPERTIES

PROPERTY	AT910		TEST METHOD	UNIT
Color	White		Visual	-
Resin base	Acrylic		-	-
Reinforced layer	Fiberglass		-	-
Thickness	0.15	0.25	ASTM D374	mm
Density	1.8	1.8	ASTM D792	g/cm³
Application temperature	-60~120	-60~120	-	°C
Short time temp. @15min	200	200	-	°C
ROHS	Compliant	Compliant	-	-
ADHESION				
Initial tack	11	8	PSTC-6	cm
Lap shear strength	50	50	ASTM D1002	N/cm²
Die shear strength@25°C	100	100	-	N/cm²
Die shear strength@80°C	70	70	-	N/cm²
Holding power 1kg @25°C	>10000	>10000	PSTC-7	min
Holding power 1kg @80°C	>10000	>10000	PSTC-7	min
90° Peeling strength @ 25°C, 72 hrs	>5	>6	ASTM D3330	N/inch
90° Peeling strength @ Thermal aging	>14	>20	80°C 1000 hrs	N/inch
90° Peeling strength @ HAST	>20	>24	85°C/85%RH 1000 hrs	N/inch
90° Peeling strength @ Thermal cycling	>27	>28	-40°C~120°C 500 cycles	N/inch
ELECTRICAL				
Dielectric breakdown	2	3	ASTM D149	KV
Surface resistivity	$>10^{11}$	$>10^{11}$	ASTM D257	Ohm
Volume resistivity	$>10^{11}$	$>10^{11}$	ASTM D257	Ohm-m
THERMAL				
Thermal conductivity	1.0	1.0	ASTM D5470	W/m*K
Thermal impedance@5psi	0.81	1.06	ASTM D5470	°C-in²/ W
Thermal impedance@10psi	0.78	1.03	ASTM D5470	°C-in²/ W
Thermal impedance@15psi	0.76	1.01	ASTM D5470	°C-in²/ W