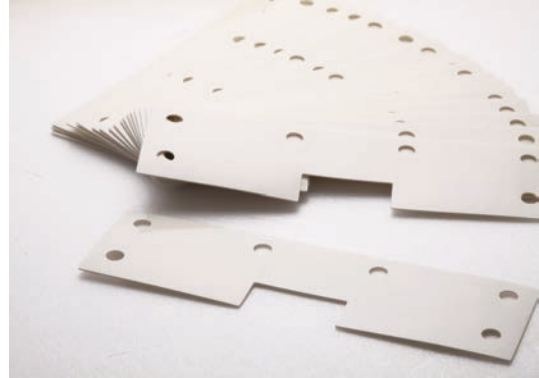


AT8389

High Thermal Conductive Tape

LiPOLY AT8389 is the thermal conductive tape without base material. The thermal conductivity is 2.0W/m*K. It's highly thermal conductive, and strong stickiness. The thickness is 0.25/0.38mm, can burden 6K voltage. Using the high conductivity particle makes the tape are high reliability, and easy to use. The stickiness and strength will increase when temperature and pressure is raising. The strong stickiness structure can fit closely with not flatness surface.

LiPOLY's ability of research and development is providing our best thermal solution to customers, which can satisfy customer special requirement on advanced product.



Features-

- Thermal conductivity:2.0W/m*K
- Easy to assemble

Typical Applications-

- Power supplies
- Motor controls
- Power semiconductors
- LED appliance

Specifications-

- Sheet form
- Die-cut parts

PROPERTY	AT8389		TEST METHOD	UNIT
Color	White		Visual	-
Reinforced layer	None		-	-
Thickness	0.25	0.38	ASTM D374	mm
Density	1.8	1.8	ASTM D792	g/cm ³
Application temperature	-60~120	-60~120	-	°C
Short time Temp@30sec	200	200	-	°C
ADHESION				
Lap shear strength	45	60	ASTM D1002	N/cm ²
Die shear strength@25°C	100	120	-	N/cm ²
Die shear strength@80°C	50	70	-	N/cm ²
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	>9	>11	ASTM D3330	N/Inch
90° Peeling Strength @ Thermal Aging	>16	>20	125°C 1000 hrs	N/Inch
90° Peeling Strength @ HAST	>24	>30	85°C/85%RH 1000 hrs	N/Inch
90° Peeling Strength @ Thermal Cycling	>14	>17	-40°C~120°C 500 cycles	N/Inch
ELECTRICA				
Dielectric strength (DCV)	5	7	ASTM D149	KV
Dielectric strength (ACV)	4	6	ASTM D149	KV
Surface resistivity	>10 ¹⁰	>10 ¹⁰	ASTM D257	Ohm
Volume resistivity	>10 ⁹	>10 ⁹	ASTM D257	Ohm-m
THERMAL				
Thermal Conductivity	2.0	2.0	ASTM D5470	W/m*K
Thermal impedance@5psi	0.54	0.78	ASTM D5470	°C-in ² /W
Thermal impedance@10psi	0.52	0.75	ASTM D5470	°C-in ² /W
Thermal impedance@15psi	0.51	0.73	ASTM D5470	°C-in ² /W

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