

AT900P

Thermal Conductive Tape

LiPOLY AT900P the thermal conductivity is 1.2W/m*K. The thickness is only 0.1mm, can burden 6K voltage. The thermal conductive, and stickiness will increased when temperature and pressure is raising. 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:1.2W/m*K
- Strong adhesive force
- Easy to assemble
- Good insulator
- Ultra thin (0.1mm) for smooth surface only

Typical Applications-

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

Specifications-

- Sheet form
- Die-cut parts

PROPERTY	AT900P		TEST METHOD	UNIT
Color	Brown		Visual	-
Reinforced layer	Polyimide		-	-
Thickness	0.10	0.14	ASTM D374	mm
Density	1.6	1.6	ASTM D792	g/cm ³
Application temperature	-60~120	-60~120	-	°C
Short time Temp@30sec	200	200	-	°C
Tensile Strength	3000	3000	ASTM D412	psi
ADHESION				
Initial tack	13	13	PSTC-6	cm
Lap shear strength	60	60	ASTM D1002	N/cm ²
Die shear strength@25°C	100	100	-	N/cm ²
Die shear strength@80°C	50	50	-	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	>10	>10	ASTM D3330	N/Inch
90° Peeling Strength @ Thermal Aging	>14	>15	125°C 1000 hrs	N/Inch
90° Peeling Strength @ HAST	>20	>30	85°C/85%RH 1000 hrs	N/Inch
90° Peeling Strength @ Thermal Cycling	>14	>14	-40°C~120°C 500 cycles	N/Inch
ELECTRICA				
Dielectric strength (DCV)	5	6	ASTM D149	KV
Dielectric strength (ACV)	4	5	ASTM D149	KV
Surface resistivity	>10 ¹²	>10 ¹²	ASTM D257	Ohm
Volume resistivity	>10 ¹²	>10 ¹²	ASTM D257	Ohm-m
THERMAL				
Thermal Conductivity	1.2	1.2	ASTM D5470	W/m*K
Thermal impedance@5psi	0.91	0.94	ASTM D5470	°C-in ² /W
Thermal impedance@10psi	0.88	0.92	ASTM D5470	°C-in ² /W
Thermal impedance@15psi	0.87	0.91	ASTM D5470	°C-in ² /W

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