

AT900A

Thermal Conductive Tape

LiPOLY AT900A is the thermal conductive tape, which used glass fabrics as base material. The thermal conductivity is 0.9W/m*K. 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:0.9W/m*K
- Strong adhesive force
- Easy to assemble
- High reliability

Typical Applications-

- Automotive electronics
- Telecommunications
- LED light bar & LED lamp
- Between any heat-generating component and heat sink

Specifications-

- Sheet form
- Die-cut parts

PROPERTY	AT900A		TEST METHOD	UNIT
Color	White		Visual	-
Reinforced layer	Fiberglass		-	-
Thickness	0.15	0.25	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	400	700	ASTM D412	psi
ADHESION				
Initial tack	10	8	PSTC-6	cm
Lap shear strength	60	60	ASTM D1002	N/cm ²
Die shear strength@25°C	107	94	-	N/cm ²
Die shear strength@80°C	70	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	>10	>12	ASTM D3330	N/Inch
90° Peeling Strength @ Thermal Aging	>14	>20	125°C 1000 hrs	N/Inch
90° Peeling Strength @ HAST	>25	>30	85°C/85%RH 1000 hrs	N/Inch
90° Peeling Strength @ Thermal Cycling	>15	>20	-40°C~120°C 500 cycles	N/Inch
ELECTRICAL				
Dielectric strength (DCV)	3	4	ASTM D149	KV
Dielectric strength (ACV)	2	3	ASTM D149	KV
Surface resistivity	>10 ¹⁰	>10 ¹⁰	ASTM D257	Ohm
Volume resistivity	>10 ¹⁰	>10 ¹⁰	ASTM D257	Ohm-m
THERMAL				
Thermal Conductivity	0.9	0.9	ASTM D5470	W/m*K
Thermal impedance@5psi	0.87	1.15	ASTM D5470	°C-in ² /W
Thermal impedance@10psi	0.85	1.14	ASTM D5470	°C-in ² /W
Thermal impedance@15psi	0.82	1.12	ASTM D5470	°C-in ² /W

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