

AT910 UL Flammability Thermal Conductive Tape

LiPOLY AT910 is a thermally conductive tape. With a fiberglass reinforced layer and a thermal conductivity of 1.0 W/m*K this product is designed for applications where additional durability is needed. AT910 can be provided in either standard sheets or custom-die cuts.

Features-

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

Typical Applications-

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

Specifications-

•Sheet form •Die-cut parts

Typical Properties-

PROPERTY	AT910		TEST METHOD	UNIT
Color	White		Visual	-
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. @ 30 sec	200	200	-	°C
ADHESION				
Initial tack	11	8	PSTC-6	cm
Lap shear strength	50	50	ASTM D1002	N/cm ²
Die shear strength @ 25 °C	100	100	-	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 1 kg @ 80 °C	>10000	>10000	PSTC-7	min
90 $^\circ$ Peeling Strength @ 25 $^\circ$ 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 strength (DCV)	3	4	ASTM D149	KV
Dielectric strength (ACV)	2	3	ASTM D149	KV
Surface resistivity	>1011	>1011	ASTM D257	Ohm
Volume resistivity	>1011	>1011	ASTM D257	Ohm-m
THERMAL				
Thermal Conductivity	1.0	1.0	ASTM D5470	W/m*K
Thermal impedance@ 5 psi	0.81	1.38	ASTM D5470	°C-in²/W
Thermal impedance@ 10 psi	0.78	1.30	ASTM D5470	°C-in²/W
Thermal impedance@ 15 psi	0.76	1.25	ASTM D5470	°C-in²/W
FLAME RATING				
UL Flammability class	V-0	V-0	UL94	-

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