

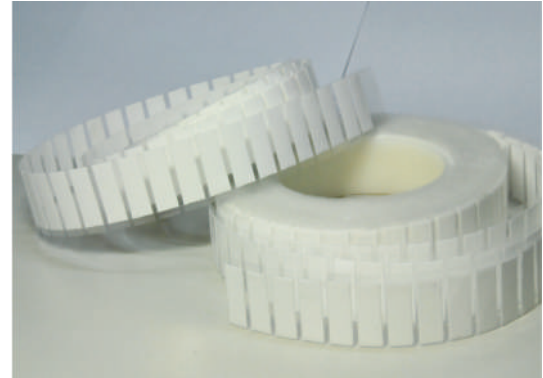
ST6000-S

UL Flammability Thermal Conductive Tape

LiPOLY ST6000-S UL is the thermal conductive tape with high temperature heat resistant. The thermal conductivity is 1.8W/m*K. and stable thermal conductive. The stickiness and strength will increased when temperature and pressure raised.

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

The product is qualified for UL.



Features-

- Thermal conductivity:1.8W/m*K
- High temperature stability
- Flame retardant
- Easy to assemble

Typical Applications-

- Power supplies
- Motor controls
- Automotive electronics

Specifications-

- Sheet form
- Die-cut parts

PROPERTY	ST6000-S	ST6000F		TEST METHOD	UNIT
Color	White	White		Visual	-
Reinforced layer	-	Fiberglass		-	-
Thickness	0.2	0.15	0.25	ASTM D374	mm
Density	2.3	1.6	1.6	ASTM D792	g/cm ³
Application temperature	-60~170	-60~170	-60~170	-	°C
Short time Temp@30sec	288	288	288	-	°C
Tensile Strength	-	400	600	ASTM D412	psi
ADHESION					
Lap shear strength	35	74	76	ASTM D1002	N/cm ²
Die shear strength@25°C	50	113	126	-	N/cm ²
Die shear strength@80°C	50	80	85	-	N/cm ²
Holding power 1kg @25°C	>10000	>10000	>10000	PSTC-7	min
Holding power 1kg @80°C	>10000	>10000	>10000	PSTC-7	min
90° Peeling Strength @ 25°C, 72 Hrs	>8	>11	>12	ASTM D3330	N/Inch
90° Peeling Strength @ Thermal Aging	>7	>7	>10	125°C 1000 hrs	N/Inch
90° Peeling Strength @ HAST	>10	>7	>13	85°C/85%RH 1000 hrs	N/Inch
90° Peeling Strength @ Thermal Cycling	>9.5	>7	>10	-40°C~120°C 500 cycles	N/Inch
ELECTRICA					
Dielectric strength (DCV)	4.5	4	5	ASTM D149	KV
Dielectric strength (ACV)	3.5	3	4	ASTM D149	KV
Surface resistivity	>10 ⁹	>10 ¹¹	>10 ¹¹	ASTM D257	Ohm
Volume resistivity	>10 ⁹	>10 ¹²	>10 ¹²	ASTM D257	Ohm-m
THERMAL					
Thermal Conductivity	1.8	1.2	1.2	ASTM D5470	W/m*K
Thermal impedance@5psi	0.81	0.78	1.24	ASTM D5470	°C-in ² /W
Thermal impedance@10psi	0.72	0.71	1.16	ASTM D5470	°C-in ² /W
Thermal impedance@15psi	0.65	0.64	1.14	ASTM D5470	°C-in ² /W
FLAME RATING					
UL Flammability class	V-0	V-0	V-0	UL94	-

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