

Li2000 Thermal Tape

Version 2.130218

Thermal Tape

Li2000 thermal tapes are double-sided thermal interface tapes which provide exceptional bonding properties between electronic components and heat sinks, eliminating the need for mechanical fasteners. Li2000 can be offered in various formats such as sheets, rolls and die cut parts depending on the applications and are proven reliability under various mechanical, thermal, and environmental stresses.

Features

- Good adhesion (Silicone PSA)
- Short time use temperature of 288°C
- Long time use temperature of 170°C
- UL compliant
- Cost effective with great performance
- Easy to assemble

Applications

Electronic components: IC, CPU, MOS
 LED, M/B, P/S, Heat Sink
 LCD, TV Notebook PC, PC Telecom Device, Wireless Hub, etc.
 DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

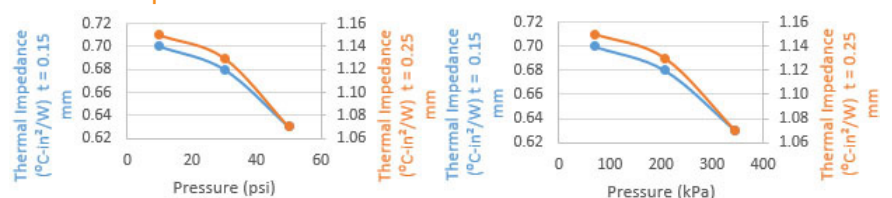
- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	Li2000		Unit	Tolerance	Test Method
Thermal Conductivity	1.20	1.20	W/mK	± 0.12	ASTM D5470
Thickness	0.15	0.25	mm	-	ASTM D374
Colour	White	White	-	-	Visual
Reinforcement Carrier	Fiberglass Mesh		-	-	-
Continuous working temperature	-45 to 170		°C	-	-
Short time using temperature	288		°C	-	-
Density	1.60	1.60	g/cm ³	-	ASTM D792
Initial tack	10		-	-	PSTC-6
Lap Shear Strength	74	76	N/cm ²	-	ASTM D1002
Die Shear Strength 25°C	113	126	N/cm ²	-	-
Die Shear Strength 80°C	80	85	N/cm ²	-	-
Die Shear Strength 150°C	30	35	N/cm ²	-	-
Holding Power 1000g 25°C	>40000		min	-	PSTC-7
Holding Power 1000g 80°C	>40000		min	-	PSTC-7
Holding Power 1000g 150°C	>10000		min	-	PSTC-7
Flame Rating	V-0		-	-	UL 94
Dielectric Breakdown Voltage (AC)	2	3	kV/mm	± 10%	ASTM D149
Dielectric Breakdown Voltage (DC)	3	4	kV/mm	± 10%	ASTM D149
Shelf Life (can be requalified for further 12)	12		months	-	-

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Thermal Impedance vs Pressure vs Deflection





Li2000 Thermal Tape

Standard Weights & Dimensional Tolerance

Size	Weights (g)		
	Thickness (mm)	0.23	0.35
100x100		2.40	4.00
150x150		5.40	9.00
300x300		21.60	36.00
320x320		24.58	40.96

Die-Cut Thickness Tolerances	Thickness (mm)	Tolerance (mm)
	0.3	±0.03
	0.5	±0.05
	0.8	±0.08
	1.0	±0.1
	1.2	±0.12
	1.5	±0.15
	2.0	±0.2
	2.5 - 3.5	±0.25
	4.0 - 4.5	±0.3
	5.0	±0.35
	6.0 - 8.0	±0.4
	9.0	±0.45
10.0	±0.5	
>10.0	±0.5	

* Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

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