

# Li98P Thermal Tape

Version 2.130218

## Thermal Tape

Li98P 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. Li98P 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 (Acrylic PSA)
- Great reliability
- 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, etc.  
 DDR II Module, DVD Applications, Hand-set applications, etc.

## Properties

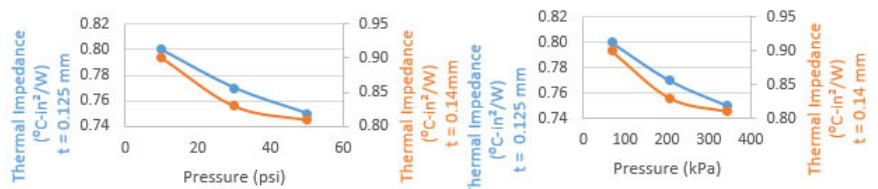
- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	Li98P		Unit	Tolerance	Test Method
Thermal Conductivity	1.70	1.70	W/mK	± 0.17	ASTM D5470
Thickness	0.125	0.140	mm	-	ASTM D374
Colour	White	White	-	-	Visual
Reinforcement Carrier	Polyimide		-	-	-
Continuous working temperature	-30 to 120		°C	-	-
Short time using temperature	250		°C	-	-
Density	1.30	1.20	g/cm <sup>3</sup>	-	ASTM D792
Tensile strength	500	600	-	-	ASTM D412
Glass transition Temperature	-25		°C	-	-
Initial tack	15		-	-	PSTC-6
Lap Shear Strength	63	62	N/cm <sup>2</sup>	-	ASTM D1002
Die Shear Strength 25°C	115		N/cm <sup>2</sup>	-	-
Die Shear Strength 80°C	66	64	N/cm <sup>2</sup>	-	-
Holding Power 1000g 25°C	>10000		min	-	PSTC-7
Holding Power 1000g 80°C	>10000		min	-	PSTC-7
90° Peeling Strength	> 10		N/in	-	-
Dielectric Breakdown Voltage (AC)	4	5	kV/mm	± 10%	ASTM D149
Dielectric Breakdown Voltage (DC)	5	6	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





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## Standard Weights & Dimensional Tolerance

Size	Weights (g)		
	Thickness (mm)	0.10	0.20
100x100	t0.125	1.625	1.82
150x150	t0.125	3.65625	4.10
300x300	t0.125	14.625	16.38
320x320	t0.125	16.64	18.64

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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