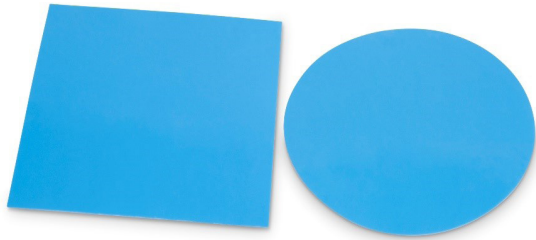




# Li98 Thermal Tape

Version 5.120320



## Thermal Tape

Li98 thermal tapes are double-sided thermal interface tapes and provide exceptional bonding properties between electronic components and heat sinks, eliminating the need for mechanical fasteners. Li98 can be offered in various formats such as sheets, rolls and die cut parts depending on the applications and have 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 Hub, etc.  
 DDR II Module, DVD Applications, Hand-set applications, etc.

## Properties

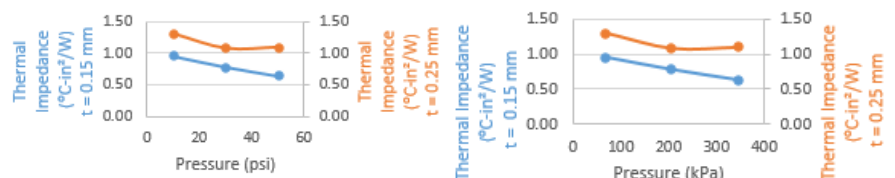
- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	Li98		Li98C		Li98CN	Unit	Tolerance	Test Method
Colour	White					-	-	Visual
Liner Colour	Blue		White					
Thickness	0.15	0.25	0.15	0.25	0.18	mm	-	ASTM D374
	0.0059	0.00984	0.0059	0.00984	0.00709	inch	-	ASTM D374
Thermal Conductivity	0.95	0.95	1.8	1.8	2	W/mK	±0.10%	ASTM D5470
Continuous Working Temperature	-30 to 120					°C	-	-
Short Time Using Temperature	200					°C	-	-
Density	1.85		1.8			g/cm <sup>3</sup>	±1.3	ASTM D792
Tensile Strength	200	400	200	400	-	psi	-	ASTM D412
Glass Transition Temperature	-30		-27		-30	°C	-	-
Initial Tack	10	8	14	12	15	cm	-	PSTC-6
Lap Shear Strength	61	55	55	50	55	N/cm <sup>2</sup>	-	ASTM D1002
Die Shear Strength 25 °C	120	109	109	100	100	N/cm <sup>2</sup>	±0.2	-
Die Shear Strength 80 °C	69	68	68		55	N/cm <sup>2</sup>	-	-
Holding Power 1000g 25 °C	>10000					min	-	PSTC-7
Holding Power 1000g 80 °C						min	-	PSTC-7
90° Peeling Strength	>10	>12	> 6	> 8	> 8	N/in	-	ASTM D3330
Dielectric Breakdown Voltage (AC)	2	3	2	3	5	kV	±0.10%	ASTM D149
Dielectric Breakdown Voltage (DC)	3	4	3	4	6	kV	±0.10%	ASTM D149
Reinforcement Carrier	Fiberglass Mesh					-	-	-
Shelf Life (can be requalified for further 12)	12					months	-	-

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## Thermal Impedance vs Pressure vs Deflection





# Li98 Thermal Tape

## Standard Weights & Dimensional Tolerance

Size	Weights (g)		
	Thickness (mm)	0.15	0.25
	100x100	2.78	4.63
	150x150	6.24	10.41
	300x300	24.98	41.63
	320x320	28.42	47.36

## Data

Digi-Key Part	T-Global Part
1168-1715-ND	LP0001/01-Li98-0.15
1168-1908-ND	LP0007/01-Li98-0.25
1168-1867-ND	LP0003/01-Li98-0.25
1168-1845-ND	TG-CPCB1-Li98-0.15
1168-1843-ND	TG-CPCB2-Li98-0.15
1168-1841-ND	TG-CPCB3-Li98-0.15
1168-1847-ND	LP0001/01-Li98-0.25
1168-1857-ND	LP0002/01-Li98-0.25
1168-1907-ND	LP0007/01-Li98-0.15
1168-1763-ND	LP0003/01-Li98-0.15
1168-1718-ND	LP0002/01-Li98-0.15
1168-1766-ND	LP0004/01-Li98-0.15
1168-1769-ND	LP0005/01-Li98-0.15
1168-1877-ND	LP0004/01-Li98-0.25
1168-1772-ND	LP0006/01-Li98-0.15
1168-1887-ND	LP0005/01-Li98-0.25
1168-1897-ND	LP0006/01-Li98-0.25

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	

Digi-Key Part	T-Global Part	Thickness	Material	Adhesive	Backing Carrier	Thermal Conductivity
1168-1715-ND	LP0001/01-Li98-0.15	0.0007" (0.178mm)	Acrylic Elastomer	Both sides	Fiberglass	2.0 W/m-K
1168-1908-ND	LP0007/01-Li98-0.25					
1168-1867-ND	LP0003/01-Li98-0.25					
1168-1845-ND	TG-CPCB1-Li98-0.15					
1168-1843-ND	TG-CPCB2-Li98-0.15					
1168-1841-ND	TG-CPCB3-Li98-0.15					

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

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