



PC93

Non-Silicone Thermal Conductive Pad

Version 2.160819

Non-Silicone Thermal Conductive Pad

PC93 is a soft, non-silicone thermal interface pad designed to replace traditional thermal pads in silicone-sensitive applications. Typical uses include, set-top boxes, optical and automotive projects. PC93 can be provided in a range of different thicknesses and formats depending on the end use.

Features

- Low contact thermal impedance
- Good thermal conductivity
- Silicone free
- Long term stability

Applications

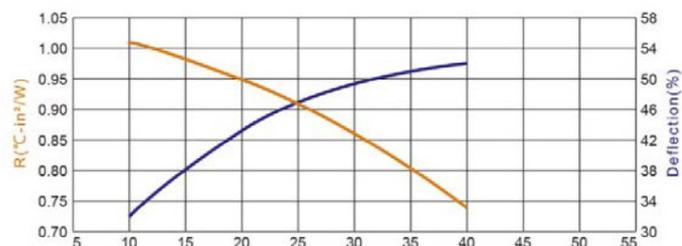
Electronic components: IC, CPU, MOS
 LED, M/B, P/S, Heat Sink
 LCD TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.
 DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	PC93	Unit	Tolerance	Test Method
Colour	Grey	-	-	Visual
Thickness (Available thickness range)	0.50 - 5.0	mm	-	ASTM D374
	0.0197 - 0.1969	inch	-	ASTM D374
Thermal Conductivity	2.1	W/mK	± 10%	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	10.2	kV/mm	± 1	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	2.1	g/cm ³	± 0.2	ASTM D792
Working Temperature	-30 to +125	°C	-	-
Volume Resistance	>10 ¹⁰	Ohm-cm	-	ASTM D257
Elongation	350	%	-	ASTM D412
Tensile Strength	1	Kgf/mm ²	-	ASTM D412
Hardness	55	Shore 00	± 10	ASTM D2240

Thermal Impedance vs Pressure vs Deflection



Pressure (psi)	R(°C-in ² /W)	Deflection (%)
10	1.01	16
20	0.95	32
40	0.74	43

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Standard Weights & Dimensional Tolerance

Size	Thickness (mm)	0.50	0.80	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00
	100x100	10.50	16.80	21.00	31.50	42.00	52.50	63.00	73.50	84.00	94.50	105.00
150x150	23.63	37.80	47.25	70.88	94.50	118.13	141.75	165.38	189.00	212.63	236.25	
300x300	94.50	151.20	189.00	283.50	378.00	472.50	567.00	661.50	756.00	850.50	945.00	
320x320	107.52	172.03	215.04	322.56	430.08	537.60	645.12	752.64	860.16	967.68	1,075.20	

* All measurements in mm

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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