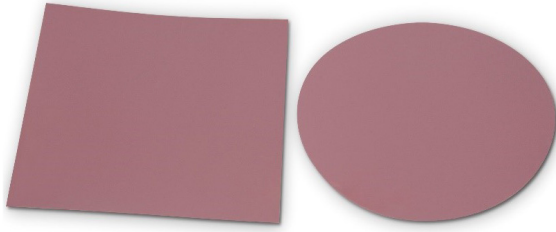




H48-2K

Thermal Conductive Pad

Version 3.030220



Thermal Conductive Pad

H48-2K is an ultra thin, silicon based gap filler which is designed for applications which require a high dielectric breakdown voltage combined with ultra low silicone outgassing. H48-2K is available in various formats such as standard sheets or custom die cuts to support both prototyping and high volume manufacturing.

Features

- Good thermal conductivity
- Ultra-soft and high compressibility
- Natural tack
- Easy to assemble
- Good insulator
- Shock and vibration absorber

Applications

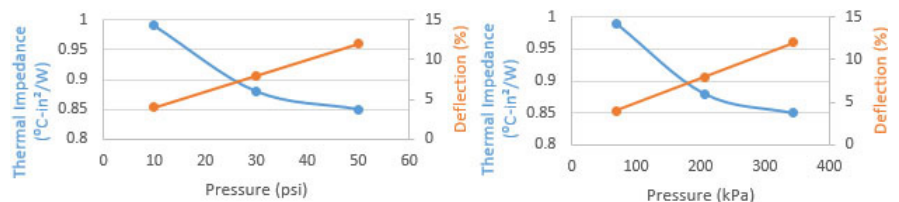
Electronic components: IC, CPU, MOS
 LED, M/B, P/S, Heat Sink
 LCD, TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.
 DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	H48-2K	Unit	Tolerance	Test Method
Colour	Dark Red	-	-	Visual
Thickness	0.1/0.2/0.3	mm	-	-
	0.004/0.008/0.01	inch	-	-
Optimal Temperature Range	-45 to 200	°C	-	-
Density	2.4	g/cm ³	±0.2	ASTM D792
Thermal Conductivity	2.2	W/mK	±0.2	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	1.2/2.5/3.5	kV	±0.1/±0.2/±0.3	ASTM D149
Hardness	85	Shore A	±5	ASTM D2240
Volume Resistance	>10 ¹¹	Ohm-m	-	ASTM D257
Elongation	50	%	-	ASTM D412
Shelf Life	36	months	-	-
Shelf Life with adhesive (can be requalified for a further 12)	12	months	-	-

Thermal Impedance vs Pressure vs Deflection



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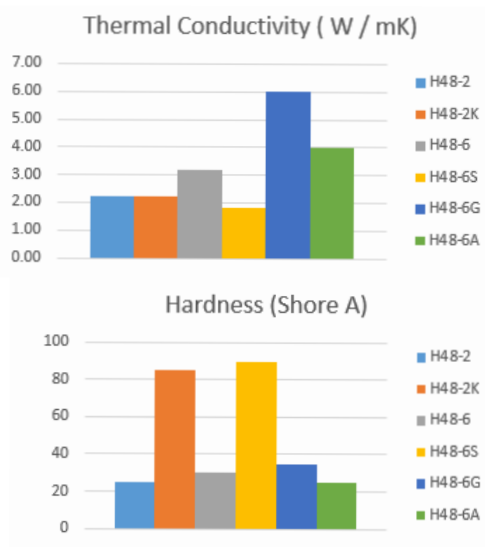
H48-2K

Thermal Conductive Pad

Standard Weights & Dimensional Tolerance

Size	Weights (g)			
	Thickness (mm)	0.10	0.20	0.30
100x100		2.10	4.20	6.30
150x150		4.73	9.45	14.18
300x300		18.90	37.80	56.70
320x320		21.50	43.01	64.51

Data



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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