



# H48-6G

## Thermal Conductive Pad

Version 3.200220

### Thermal Conductive Pad

H48-6G is a silicone based thermal interface pad which offers a good combination of low thermal impedance, good compressibility and a high dielectric breakdown voltage. H48-6G is available in various thicknesses and different formats such as custom die cuts or standard sheets.

### Features

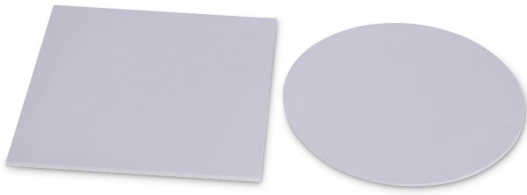
- Good thermal conductivity
- Ultra-soft and high compressibility
- Natural tack
- Easy to assemble
- Good insulator
- Shock and vibration absorber

### Applications

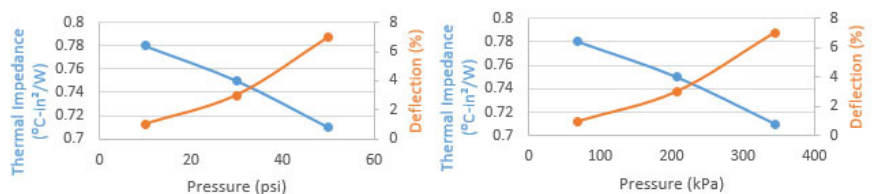
Electronic components: IC, CPU, MOS  
 LED - M/B, P/S, Heat Sink  
 LCDTV, Notebook PC, PC Telecom Device, Wireless Hub, etc.  
 DDR II Module, DVD Applications, Hand-set applications, etc.

### Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant



Property	H48-6G	Unit	Tolerance	Test Method
Colour	Grey	-	-	Visual
Thickness	0.3 - 5.0	mm	-	ASTM D374
	0.0118 - 0.1969	inch	-	ASTM D374
Thermal Conductivity	6	W/mK	±0.6	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	13	kV/mm	±0.13	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	3.09	g/cm <sup>3</sup>	±0.2	ASTM D792
Working Temperature	-40 to 200	°C	-	-
Volume Resistance	>10 <sup>12</sup>	Ohm-cm	-	ASTM D257
Elongation	60	%	±13	ASTM D412
Tensile Strength	6	Kgf/cm <sup>2</sup>	±2	ASTM D412
Hardness	35	Shore A	±3.5	ASTM D2240
Shelf Life	24	months	-	-



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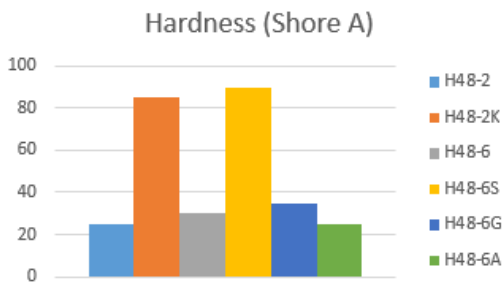
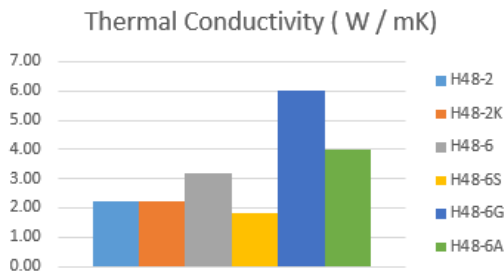
## Standard Weights & Dimensional Tolerance

Size	Thickness (mm)	Weight (gr)											
		0.30	0.50	0.80	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00
100x100	100x100	9.27	15.45	24.72	30.90	46.35	61.80	77.25	92.70	108.15	123.60	139.05	154.50
	150x150	20.86	34.76	55.62	69.53	104.29	139.05	173.81	208.58	243.34	278.10	312.86	347.63
	300x300	83.43	139.05	222.48	278.10	417.15	556.20	695.25	834.30	973.35	1,112.40	1,251.45	1,390.50
	320x320	94.92	158.21	253.13	316.42	474.62	632.83	791.04	949.25	1,107.46	1,265.66	1,423.87	1,582.08

\* All measurements in weights are in gr

\*\* All sizes are in mm

## 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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