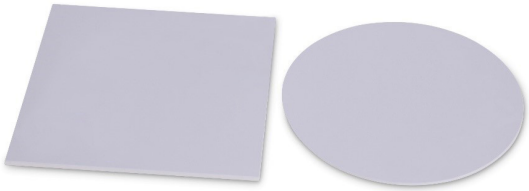
H48-6G
Thermal Conductive Pad

Version 1.050418



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. Additionally, both custom die cut pads and standard sheets can be supplied with either one of two side thermally conductive adhesive applied for greater ease of manufacture.

Features

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

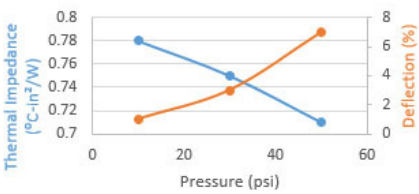
Applications

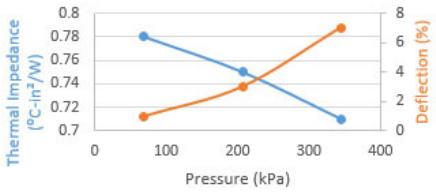
Electronic components: IC, CPU, MOS
LED - M/B, P/S, Heat Sink
LCDTV, Notebook PC, PC Telecom Device, Wireless Hub, etc.
DDR II Module, DVD Applications, Hand-set applications, etc.

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/cm³	±0.2	ASTM D792
Working Temperature	-40 to 200	˚C	-	-
Volume Resistance	$>10^{12}$	Ohm-cm	-	ASTM D257
Elongation	60	%	±13	ASTM D412
Tensile Strength	6	Kgf/cm²	±2	ASTM D412
Hardness	35	Shore A	±3.5	ASTM D2240





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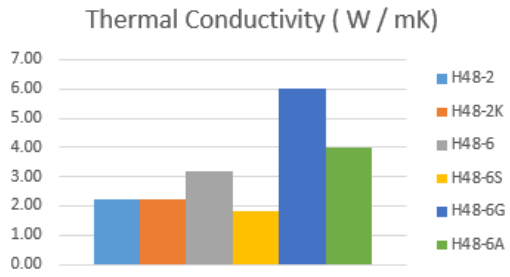
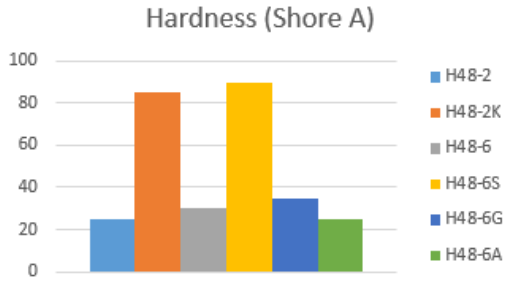
Standard Weights & Dimensional Tolerance

	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
Size	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





	Thickness (mm)	Tolerance (mm)
Die-Cut Thickness Tolerances	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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