



H48-2 Thermal Conductive Pad

Version 3.140318

Thermal Conductive Pad

H48-2 is a silicone based thermal pad which has been designed for both efficient heat transfer away from critical devices and ease of manufacture. H48-2 can be provided in a range of formats and thicknesses, such as standard sheets, rolls or die cuts. Additionally, H48-2 may be provided with either one of two sided adhesive to further facilitate manufacturing processes.

Features

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

Applications

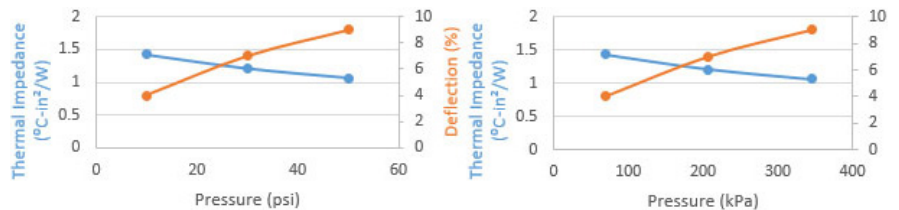
Electronic components: IC, CPU, MOS
 LED, M/B, P/S, Heat Sink
 LCD, TV, Notebook PC, PC Telecom Device, Wireless, etc.
 DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	H48-2	Unit	Tolerance	Test Method
Colour	Dark Red	-	-	Visual
Thickness (Available thickness range)	0.1 - 10	mm	-	ASTM D374
	0.012 - 0.7874	inch	-	ASTM D374
Thermal Conductivity	2.2	W/mK	±0.22	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	5	kV/mm	±0.5	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	2.43	g/cm ³	±0.2	ASTM D792
Working Temperature	-40 to 200	°C	-	-
Volume Resistance	>10 ¹¹	Ohm-cm	-	ASTM D257
Elongation	282	%	-	ASTM D412
Tensile Strength	7	Kgf/cm ²	±2	ASTM D412
Hardness	25	Shore A	±2.5	ASTM D2240
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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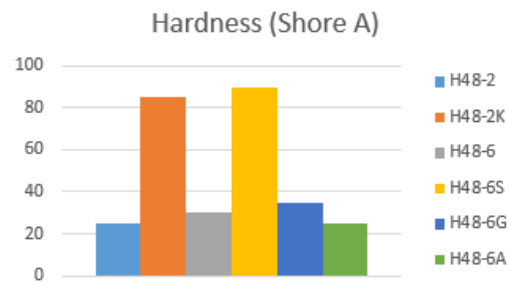
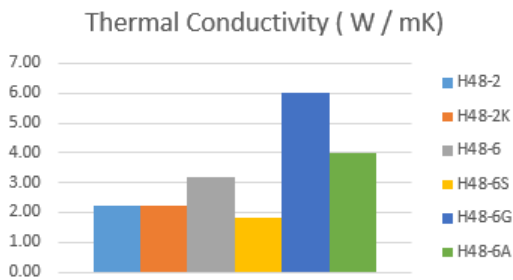
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Standard Weights & Dimensional Tolerance

Size	Thickness (mm)	Weights (g)												
		0.10	0.20	0.30	0.50	0.80	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
100x100	100x100	2.43	4.86	7.29	12.15	19.44	24.30	36.45	48.60	60.75	72.90	85.05	97.20	109.35
	150x150	5.47	10.94	16.40	27.34	43.74	54.68	82.01	109.35	136.69	164.03	191.36	218.70	246.04
	300x300	21.87	43.74	65.61	109.35	174.96	218.70	328.05	437.40	546.75	656.10	765.45	874.80	984.15
	320x320	24.88	49.77	74.65	124.42	199.07	248.83	373.25	497.66	622.08	746.50	870.91	995.33	1,119.74

Size	Thickness (mm)	Weights (g)											
		5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	
100x100	100x100	121.50	133.65	145.80	157.95	170.10	182.25	194.40	206.55	218.70	230.85	243.00	
	150x150	273.38	300.71	328.05	355.39	382.73	410.06	437.40	464.74	492.08	519.41	546.75	
	300x300	1,093.50	1,202.85	1,312.20	1,421.55	1,530.90	1,640.25	1,749.60	1,858.95	1,968.30	2,077.65	2,187.00	
	320x320	1,244.16	1,368.58	1,492.99	1,617.41	1,741.82	1,866.24	1,990.66	2,115.07	2,239.49	2,363.90	2,488.32	

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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