



H48-2

Thermal Conductive Pad

Version 2.130218

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

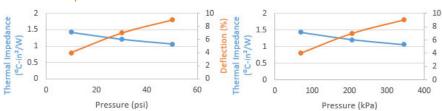
Electronic components: IC, CPU, MOS LED, M/B, P/S, Heat Sink LCD, TV, Notebook PC, PC Telecom Device, Wireless, etc. DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

- REACH Compliant
- ✓ ROHS Compliant

Property	H48-2	Unit	Tolerance	Test Method	
Colour	Dark Red	-	-	Visual	
Thickness (Available thickness	0.3 - 20	mm	-	ASTM D374	
range)	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/cm³	±0.2	ASTM D792	
Working Temperature	-40 to 200	°C	-	-	
Volume Resistance	>1011	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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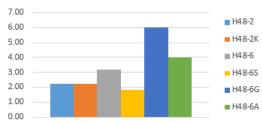
Standard Weights & Dimensional Tolerance

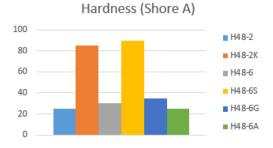
	Thickness		Weights (g)											
	(mm)	0.10	0.20	0.30	0.50	0.80	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
Size	100x100	2.43	4.86	7.29	12.15	19.44	24.30	36.45	48.60	60.75	72.90	85.05	97.20	109.35
	150x150	5.47	10.94	16.40	27.34	43.74	54.68	82.01	109.35	136.69	164.03	191.36	218.70	246.04
	300x300	21.87	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

	Thickness (mm)	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
	100x100	121.50	133.65	145.80	157.95	170.10	182.25	194.40	206.55	218.70	230.85	243.00
Size	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







	Thickness (mm)	Tolerance (mm)				
	0.3	±0.03				
	0.5	±0.05				
	0.8	±0.08 ±0.1				
	1.0					
	1.2	±0.12 ±0.15 ±0.2 ±0.25 ±0.3				
Die-Cut	1.5					
Thickness	2.0					
Tolerances	2.5 - 3.5					
	4.0 - 4.5					
	5.0	±0.35				
	6.0 - 8.0	±0.4				
	9.0	±0.45				
	10.0	±0.5				
	>10.0	±0.5				

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^{*} Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.