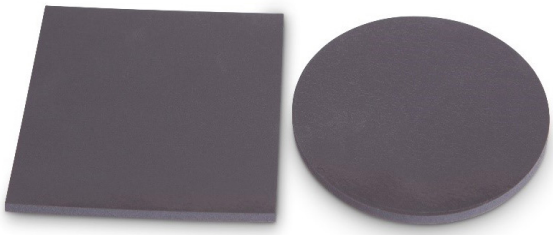
H48-6
Thermal Conductive Pad

Version 2.130218



Thermal Conductive Pad

H48-6 is a silicone based thermal interface pad which offers a good combination of low thermal impedance, good compressability and a high dielectric breakdown voltage. H48-6 is available in numerous 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

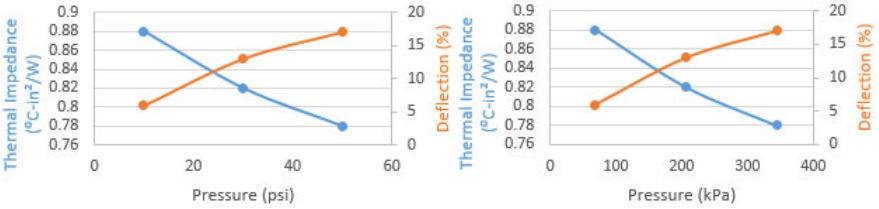
Electronic components: IC, CPU, MOS
LED - M/B, P/S, Heat Sink
LCD, TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.
DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	H48-6	Unit	Tolerance	Test Method
Colour	Dark Grey	-	-	Visual
Thickness (Available thickness range)	0.3 - 20	mm	-	ASTM D374
	0.0118 - 0.787	inch	-	ASTM D374
Thermal Conductivity	3.2	W/mK	±0.3	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	2	kV/mm	±0.2	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	2.42	g/cm^3	±0.2	ASTM D792
Working Temperature	-40 to 200	°C	-	-
Volume Resistance	>10^{11}	Ohm-cm	-	ASTM D257
Elongation	130	%	-	ASTM D412
Tensile Strength	8	Kgf/cm^2	-	ASTM D412
Hardness	30	Shore A	±10	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



T-Global Technology Limited
1 & 2 Cosford Business Park, Central Park,
Lutterworth, Leicestershire LE17 4QU U.K.

Tel: +44 (0)1455 553 510
Email: sales@tglobaltechnology.com
Web: www.tglobaltechnology.com
Skype: tglobal.technology
VAT #: GB 116 662 714

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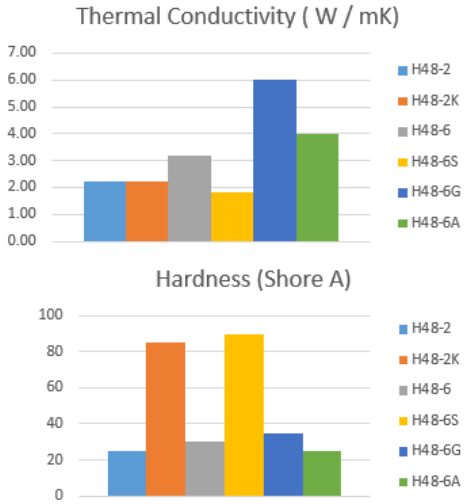
Standard Weights & Dimensional Tolerance

Size	Thickness (mm)	Weights (g)											
		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	7.29	12.15	19.44	24.30	36.45	48.60	60.75	72.90	85.05	97.20	109.35	121.50
	150x150	16.40	27.34	43.74	54.68	82.01	109.35	136.69	164.03	191.36	218.70	246.04	273.38
	300x300	65.61	109.35	174.96	218.70	328.05	437.40	546.75	656.10	765.45	874.80	984.15	1,093.50
	320x320	74.65	124.42	199.07	248.83	373.25	497.66	622.08	746.50	870.91	995.33	1,119.74	1,244.16

	Thickness (mm)	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
	100x100	133.65	145.80	157.95	170.10	182.25	194.40	206.55	218.70	230.85	243.00
	150x150	300.71	328.05	355.39	382.73	410.06	437.40	464.74	492.08	519.41	546.75
	300x300	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	1,368.58	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)
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.

Tel: +44 (0)1455 553 510 Email: sales@tglobaltechnology.com Web: www.tglobaltechnology.com Skype: tglobal.technology