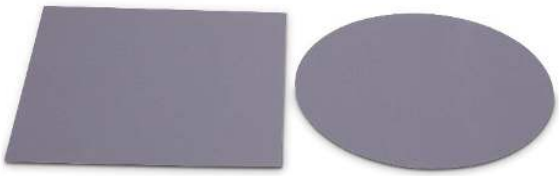
PCM20G
Phase Change Material

Version 1.150318



Phase Change Material

PCM20G phase change thermal interface materials are designed to fill air gaps and voids between between heat sources and heatsinks, while at the same time displacing entrapped air between surfaces. PCM20G is a solid at room temperature for ease of manufacture and changes phase at the working temperature to give a low thermal impedance. PCM20G is available in a wide range of formats, such as standard sheets and custom die cuts depending on the end application.

Features

Naturally tacky and easy to use
Low thermal resistance
Long term reliability
Good thermal conductivity
Customized parts
Maximize the contact area between surfaces

Applications

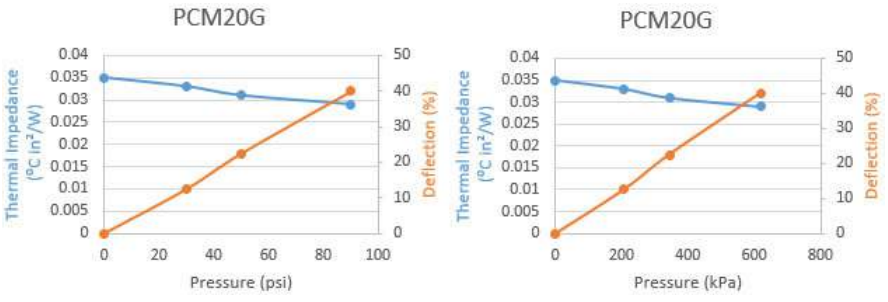
Electronic components: IC, CPU, MOS
LED, M/B, P/S, Heat Sink
LCD, TV, Notebook PC, PC Telecom Device, Wireless Hub, etc.
DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

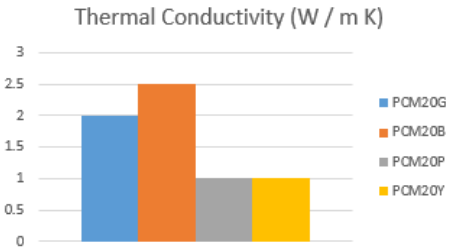
- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	PCM20G	Unit	Test Method
Colour	Grey	-	-
Carrier	-	-	-
Thermal Conductivity	2	W/mK	ASTM D5470
Thermal Impedance	0.035	°C in²/W	ASTM D5470
Phase Changing Temperature	50 ~ 60	°C	-
Density	1.2	g/cm³	-
Thickness	0.13 / 0.18 / 0.20 / 0.25	mm	-
Storage temperature	< 40	°C	-
Operating Temperature	-45 ~ 125	°C	-
Shelf Life	12	Months	-

Thermal Impedance vs Pressure vs Deflection



Data



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Standard Weights & Dimensional Tolerance

Size	Weight (gr)				
	Thickness (mm)	0.13	0.18	0.2	0.25
	150x150	-	4.86	-	-
	150x200	-	6.48	-	-
	300x400	18.72	-	28.8	36
	400x300	-	25.92	-	-

* All measurements in weights are in gr
** All sizes are in mm

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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