

Gap Pad® HC1000

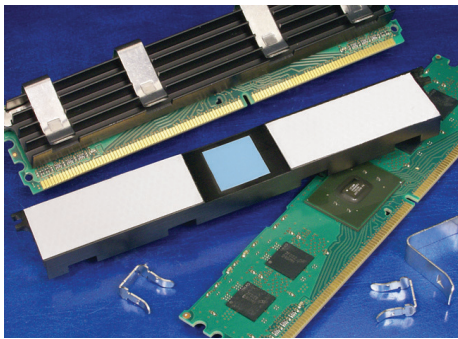
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PRODUCT DESCRIPTION

"Gel-Like" Modulus Gap Filling Material

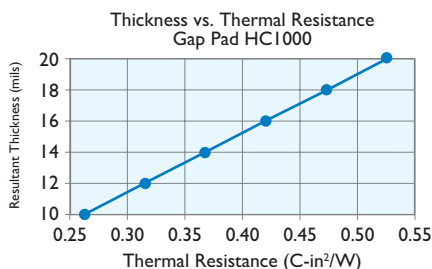
FEATURES AND BENEFITS

- Thermal conductivity: 1.0 W/m-K
- Highly conformable, low hardness
- "Gel-like" modulus
- Fiberglass reinforced for puncture, shear and tear resistance



Gap Pad® HC 1000 is an extremely conformable, low-modulus polymer that acts as a thermal interface and electrical insulator between electronic components and heat sinks. The "gel-like" modulus allows this material to fill air gaps to enhance the thermal performance of electronic systems. Gap Pad® HC1000 is offered with removable protective liners on both sides of the material.

Note: To build a part number, visit our website at www.bergquistcompany.com.



TYPICAL PROPERTIES OF GAP PAD HC1000

PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color	Gray	Gray	Visual
Reinforcement Carrier	Fiberglass	Fiberglass	—
Thickness (inch) / (mm)	0.010 to 0.020	0.254 to 0.508	ASTM D374
Inherent Surface Tack (1 side)	2	2	—
Density (Bulk Rubber) (g/cc)	1.6	1.6	ASTM D792
Heat Capacity (J/g-K)	1.0	1.0	ASTM E1269
Hardness (Bulk Rubber) (Shore 00) (1)	25	25	ASTM D2240
Young's Modulus (psi) / (kPa) (2)	40	275	ASTM D575
Continuous Use Temp (°F) / (°C)	-76 to 392	-60 to 200	—
ELECTRICAL			
Dielectric Breakdown Voltage (Vac)	>5000	>5000	ASTM D149
Dielectric Constant (1000 Hz)	5.5	5.5	ASTM D150
Volume Resistivity (Ohm-meter)	10 ¹¹	10 ¹¹	ASTM D257
Flame Rating	V-O	V-O	U.L. 94
THERMAL			
Thermal Conductivity (W/m-K)	1.0	1.0	ASTM D5470
THERMAL PERFORMANCE vs. STRAIN			
	Deflection (% strain)		
	10	20	30
Thermal Impedance (°C-in ² /W) 0.020" (3)	1.30	1.00	0.96
1) Thirty second delay value Shore 00 hardness scale. 2) Young's Modulus, calculated using 0.01 in/min. step rate of strain with a sample size of 0.79 inch ³ . 3) The ASTM D5470 test fixture was used. The recorded value includes interfacial thermal resistance. These values are provided for reference only. Actual application performance is directly related to the surface roughness, flatness and pressure applied.			

TYPICAL APPLICATIONS INCLUDE

- Computer and peripherals
- Telecommunications
- Heat interfaces to frames, chassis or other heat spreading devices
- RDRAM™ memory modules/chip scale packages
- CDROM/DVD cooling
- Areas where irregular surfaces need to make a thermal interface to a heat sink
- DDR SDRAM memory modules
- FB DIMM modules

CONFIGURATIONS AVAILABLE

- Sheet form, die-cut parts, and roll form (converted or unconverted)

Disclaimer

Note:

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