



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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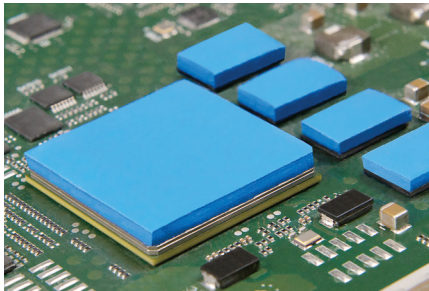


# Gap Pad® HC 3.0

High-Compliance, Thermally Conductive, Low Modulus Material

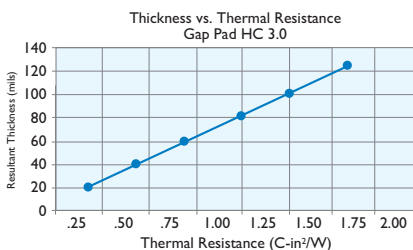
## Features and Benefits

- Thermal Conductivity: 3.0 W/m-K
- High-compliance, low compression stress
- Fiberglass reinforced for shear and tear resistance



Gap Pad® HC 3.0 is a soft and compliant gap filling material with a thermal conductivity of 3.0 W/m-K. The material offers exceptional thermal performance at low pressures due to a unique 3.0 W/m-K filler package and low-modulus resin formulation. The enhanced material is ideal for applications requiring low stress on components and boards during assembly. Gap Pad® HC 3.0 maintains a conformable nature that allows for quick recovery and excellent wet-out characteristics, even to surfaces with high roughness and/or topography.

Gap Pad® HC 3.0 is offered with natural inherent tack on both sides of the material, eliminating the need for thermally-impeding adhesive layers. The top side has minimal tack for ease of handling. Gap Pad® HC 3.0 is supplied with protective liners on both sides.



## TYPICAL PROPERTIES OF GAP PAD HC 3.0

PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color	Blue	Blue	Visual
Reinforcement Carrier	Fiberglass	Fiberglass	—
Thickness (inch) / (mm)	0.010 to 0.125	0.254 to 3.175	ASTM D374
Inherent Surface Tack	2	2	—
Density (Bulk Rubber) (g/cc)	3.1	3.1	ASTM D792
Heat Capacity (J/g-K)	1.0	1.0	ASTM E1269
Hardness (Bulk Rubber) (Shore 00) (4)	15	15	ASTM D2240
Young's Modulus (psi) / (kPa) (1)	16	110	ASTM D575
Continuous Use Temp (°F) / (°C)	-76 to 392	-60 to 200	—
<b>ELECTRICAL</b>			
Dielectric Breakdown Voltage (Vac) (3)	5000	5000	ASTM D149
Dielectric Constant (1000 Hz)	6.5	6.5	ASTM D150
Volume Resistivity (Ohm-meter)	10 <sup>10</sup>	10 <sup>10</sup>	ASTM D257
Flame Rating	V-O	V-O	U.L. 94
<b>THERMAL</b>			
Thermal Conductivity (W/m-K) (2)	3.0	3.0	ASTM D5470
<b>THERMAL PERFORMANCE vs. STRAIN</b>			
	Deflection (% strain)		
	10	20	30
Thermal Impedance (°C-in <sup>2</sup> /W) 0.040" (2)	0.57	0.49	0.44
<small>1) Young's Modulus, calculated using 0.01 in/min. step rate of strain with a sample size of 0.79 inch<sup>2</sup> after 5 minutes of compression at 10% strain on a 1mm thickness material.                  2) 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.                  3) Typical value at 20 mil.                  4) Thirty second delay value on Shore 00 hardness scale.</small>			

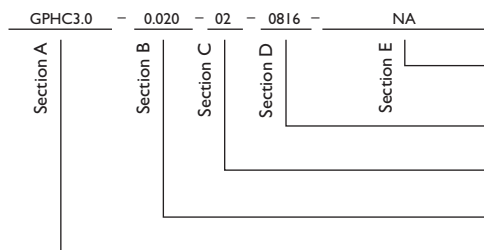
## Typical Applications Include:

- Telecommunications
- Consumer electronics
- ASICs and DSPs
- Thermal modules to heat sinks

## Configurations Available:

- Sheet form and die-cut parts

## Building a Part Number



## Standard Options

◀ example

NA = Selected standard option. If not selecting a standard option, insert company name, drawing number, and revision level.

0816 = Standard sheet size 8" x 16", or 00 = custom configuration

02 = Natural tack, both sides (With Fiberglass)

Standard thicknesses available: 0.010", 0.015", 0.020", 0.030", 0.040", 0.060", 0.080", 0.100", 0.125"

GPHC3.0 = Gap Pad HC 3.0 Material with fiberglass

Note: To build a part number, visit our website at [www.bergquistcompany.com](http://www.bergquistcompany.com).

**BERGQUIST**

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