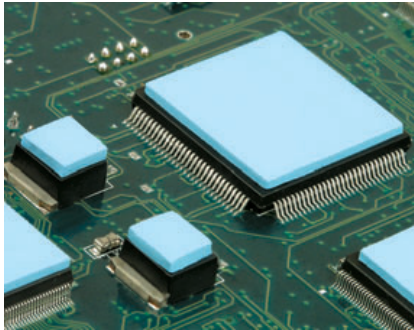


# Gap Pad® 3000S30

Thermally Conductive, Reinforced, Soft "S-Class" Gap Filling Material

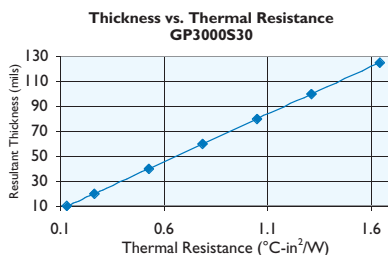
## Features and Benefits

- Thermal conductivity = 3.0 W/mK
- Low S-Class thermal resistance at very low pressures
- Conformable low hardness
- Designed for low pressure applications
- Fiberglass reinforced for puncture, shear and tear resistance



Gap Pad 3000S30 is an all-new, high performance (3W/m-K) thermally conductive gap filling material. In addition to a high thermal conductivity value, Gap Pad 3000S30 offers exceptionally low interfacial resistances to adjacent surfaces. Featuring a soft, very low hardness specifically designed to comply to unique contours and topography, Gap Pad 3000S30 is ideal for fragile components. The material is reinforced allowing for easy part placement and handling. Gap Pad 3000S30 is supplied with protective liners on both sides.

*Note: Resultant thickness is defined as the final gap thickness of the application.*



## TYPICAL PROPERTIES OF GAP PAD 3000S30

PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color	Light Blue	Light Blue	Visual
Reinforcement Carrier	Fiberglass	Fiberglass	—
Thickness (inch) / (mm)	0.010 to 0.125	0.254 to 3.175	ASTM D374
Inherent Surface Tack (1 or 2 sided)	2	2	—
Density (g/cc)	3.2	3.2	ASTM D792
Heat Capacity (J/g-K)	1.0	1.0	ASTM C351
Hardness 10-20 mil (Shore 00) (1)	55	55	ASTM D2240
Hardness 40-125 mil (Shore 00) (1)	30	30	ASTM D575
Young's Modulus (psi) / (kPa) (2)	26	180	ASTM D575
Continuous Use Temp (°F) / (°C)	-76 to 392	-60 to 200	—
<b>ELECTRICAL</b>			
Dielectric Breakdown Voltage (Vac)	2500 min	2500 min	ASTM D149
Dielectric Constant (1000 Hz)	6.0	6.0	ASTM D150
Volume Resistivity (Ohm-meter)	8.5 <sup>10</sup>	8.5 <sup>10</sup>	ASTM D257
Flame Rating (pending)	94 V-O	94 V-O	UL
<b>THERMAL</b>			
Thermal Conductivity (W/m-K)	3.0	3.0	ASTM D5470

1) One 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<sup>2</sup>. For more information on Gap Pad modulus, refer to Bergquist Application Note #116.

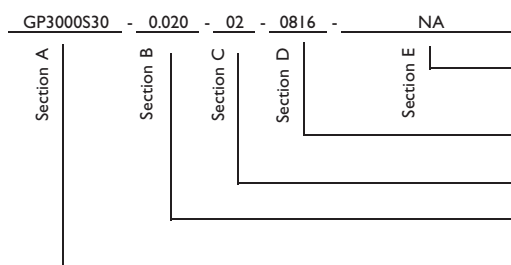
## Typical Applications:

- Processors
- Server S-RAMs
- Mass storage drives
- Wireline/wireless communications hardware
- Notebook computers
- BGA packages
- Power conversion

## Configurations Available:

- Die cut parts in any shape or size, separated or in sheet form
- Custom sizes available — contact Bergquist Product Management

## 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",  
00 = Custom configuration

02 = Naturally tacky both sides

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

GP3000S30 = Gap Pad 3000S30

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

Gap Pad®. U.S. Patent 5,679,457 and others.



[www.bergquistcompany.com](http://www.bergquistcompany.com)

The Bergquist Company -  
North American Headquarters  
18930 West 78th Street  
Chanhassen, MN 55317  
Phone: 800-347-4572  
Fax: 952-835-4156

The Bergquist Company - Europe  
Bramenberg 9a, 3755 BT Eemnes  
Netherlands  
Phone: 31-35-5380684  
Fax: 31-35-5380295

The Bergquist Company - China  
Rm. 7C, Aihé Mansion  
No. 629 Ling Ling Road  
Shanghai, China 200030  
Ph: 86-21-6464-2206  
Fax: 86-21-6464-2209

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