

# Gap Pad® 1000SF

Thermally Conductive, Silicone-Free Gap Filling Material

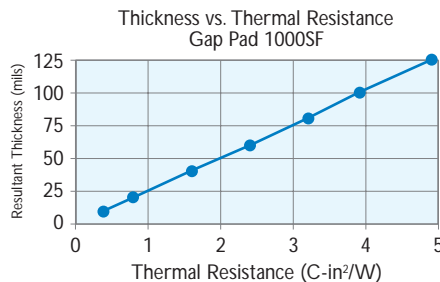
## Features and Benefits

- Thermal conductivity: 0.9 W/m-K
- No silicone outgassing
- No silicone extraction
- Reduced tack on one side to aid in application assembly
- Electrically isolating



The new Gap Pad 1000SF is a thermally conductive, electrically insulating, silicone-free polymer specially designed for silicone-sensitive applications. The material is ideal for applications with high standoff and flatness tolerances. Gap Pad 1000SF is reinforced for easy material handling and added durability during assembly. The material is available with a protective liner on both sides of the material. The topside has reduced tack for ease of handling.

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



| TYPICAL PROPERTIES OF GAP PAD 1000SF  |                  |                  |             |
|---------------------------------------|------------------|------------------|-------------|
| PROPERTY                              | IMPERIAL VALUE   | METRIC VALUE     | TEST METHOD |
| Color                                 | Green            | Green            | 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)                        | 2.0              | 2.0              | ASTM D792   |
| Heat Capacity (J/g-K)                 | 1.1              | 1.1              | ASTM E1269  |
| Hardness, Bulk Rubber (Shore 00) (1)  | 40               | 40               | ASTM D2240  |
| Young's Modulus (psi) / (kPa) (2)     | 34               | 234              | ASTM D575   |
| Continuous Use Temp (°F) / (°C)       | -76 to 257       | -60 to 125       | —           |
| <b>ELECTRICAL</b>                     |                  |                  |             |
| Dielectric Breakdown Voltage (Vac)    | >6000            | >6000            | ASTM D149   |
| Dielectric Constant (1000 Hz)         | 5.0              | 5.0              | ASTM D150   |
| Volume Resistivity (Ohm-meter)        | 10 <sup>10</sup> | 10 <sup>10</sup> | ASTM D257   |
| Flame Rating                          | V-1              | V-1              | U.L. 94     |
| <b>THERMAL</b>                        |                  |                  |             |
| Thermal Conductivity (W/m-K)          | 0.9              | 0.9              | ASTM D5470  |

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

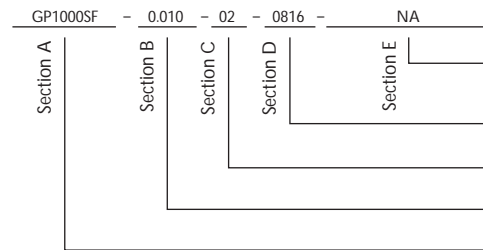
## Typical Applications Include:

- Digital disk drives / CD-ROM
- Automotive modules
- Fiber optics modules

## Configurations Available:

- Sheet form
- Die-cut parts

## Building a Part Number



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

## Standard Options

◀ example

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

0806 = Standard sheet size 8" x 16", or 00 = custom configuration

02 = Natural tack, both sides

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

GP1000SF = Gap Pad 1000SF Material

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



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