Gap Pad® 1000SF

Thermally Conductive, Silicone-Free Gap Filling Material

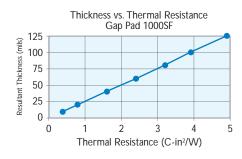
Features and Benefits

- 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 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) 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 34 234 ASTM D575 Young's Modulus (psi) / (kPa) (2) Continuous Use Temp (°F) / (°C) -76 to 257 -60 to 125 **ELECTRICAL** Dielectric Breakdown Voltage (Vac) >6000 >6000 ASTM D149 Dielectric Constant (1000 Hz) 5.0 5.0 ASTM D150 Volume Resistivity (Ohm-meter) 1010 1010 ASTM D257 Flame Rating \/-1 \/-1 U.L. 94 **THERMAL** Thermal Conductivity (W/m-K) 0.9 0.9 ASTM D5470

- 1) Thirty second delay value Shore 00 hardness scale
- Young's Modulus, calculated using 0.01 in/min. step rate of strain with a sample size of 0.79 inch?. For more information on Gap Pad modulus, refer to Bergquist Application Note #116.

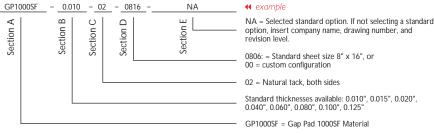
Typical Applications Include:

- 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.

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



Standard Options