Gap Pad® A2000 acts as a thermal interface and electrical insulator between electronic components and heat sinks. In the thickness range of 10 to 40 mil, Gap Pad® A2000 is supplied with natural tack on both sides, allowing for excellent compliance to the adjacent surfaces of components. The 40 mil material thickness is supplied with lower tack on one side, allowing for burn-in processes and easy rework.

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

**PRODUCT DESCRIPTION**
High Performance, Thermally Conductive Gap Filling Material

**FEATURES AND BENEFITS**
- Thermal conductivity: 2.0 W/m-K
- Fiberglass reinforced for puncture, shear and tear resistance
- Electrically isolating

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**TYPICAL PROPERTIES OF GAP PAD A2000**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>IMPERIAL VALUE</th>
<th>METRIC VALUE</th>
<th>TEST METHOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Gray</td>
<td>Gray</td>
<td>Visual</td>
</tr>
<tr>
<td>Reinforcement Carrier</td>
<td>Fiberglass</td>
<td>Fiberglass</td>
<td>—</td>
</tr>
<tr>
<td>Thickness (inch) / (mm)</td>
<td>0.010 to 0.040</td>
<td>0.254 to 1.016</td>
<td>ASTM D374</td>
</tr>
<tr>
<td>Inherent Surface Tack (1 side)</td>
<td>2</td>
<td>2</td>
<td>—</td>
</tr>
<tr>
<td>Density (Bulk Rubber) (g/cc)</td>
<td>2.9</td>
<td>2.9</td>
<td>ASTM D792</td>
</tr>
<tr>
<td>Heat Capacity (Btu/hr)</td>
<td>1.0</td>
<td>1.0</td>
<td>ASTM E1269</td>
</tr>
<tr>
<td>Hardness (Bulk Rubber) (Shore 00)</td>
<td>80</td>
<td>80</td>
<td>ASTM D2240</td>
</tr>
<tr>
<td>Young’s Modulus (psi) / (kPa)</td>
<td>555</td>
<td>379</td>
<td>ASTM D575</td>
</tr>
<tr>
<td>Continuous Use Temp. (°F) / (°C)</td>
<td>-76 to 392</td>
<td>-60 to 200</td>
<td>—</td>
</tr>
</tbody>
</table>

**ELECTRICAL**
- Dielectric Breakdown Voltage (Vac) >4000 >4000 ASTM D149
- Dielectric Constant (1000 Hz) 6.0 6.0 ASTM D150
- Volume Resistivity (Ohm-meter) 10^11 10^11 ASTM D257
- Flame Rating V-O V-O UL 94

**THERMAL**
- Thermal Conductivity (W/m-K) 2.0 2.0 ASTM D5470

**THERMAL PERFORMANCE vs. STRAIN**

<table>
<thead>
<tr>
<th>Deflection (% strain)</th>
<th>10</th>
<th>20</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Impedance (°C-in2/W)</td>
<td>0.040</td>
<td>1.04</td>
<td>1.00</td>
</tr>
</tbody>
</table>

1) Thirty second delay value. Shore 60 hardness scale. 2) Young’s Modulus, calculated using 0.01 in/min. step rate of strain with a sample size of 0.79 inch^2. 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; between CPU and heat spreader
- Telecommunications
- Heat pipe assemblies
- RDRAM™ memory modules
- CDROM / DVD cooling
- Areas where heat needs to be transferred to a frame chassis or other type of heat spreader
- DDR SDRAM memory modules

**CONFIGURATIONS AVAILABLE**
- Sheet form, die-cut parts, and roll form (converted or unconverted)
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Note:
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