**PRODUCT DESCRIPTION**
Thermally Conductive, Un-Reinforced Gap Filling Material

**FEATURES AND BENEFITS**
- Thermal conductivity: 1.5 W/m-K
- Un-reinforced construction for additional compliancy
- Conformable, low hardness
- Electrically isolating

Gap Pad® 1500 has an ideal filler blend that gives it a low-modulus characteristic that maintains optimal thermal performance yet still allows for easy handling. The natural tack on both sides of the material allows for good compliance to adjacent surfaces of components, minimizing interfacial resistance.

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

<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>Black</td>
<td>Black</td>
<td>Visual</td>
</tr>
<tr>
<td>Reinforcement Carrier</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Thickness (inch) / (mm)</td>
<td>0.020 to 0.200</td>
<td>0.508 to 5.080</td>
<td>ASTM D374</td>
</tr>
<tr>
<td>Inherent Surface Tack (1 sided)</td>
<td>2</td>
<td>2</td>
<td>—</td>
</tr>
<tr>
<td>Density (Bulk Rubber) (g/cc)</td>
<td>2.1</td>
<td>2.1</td>
<td>ASTM D792</td>
</tr>
<tr>
<td>Heat Capacity (J/g-K)</td>
<td>1.0</td>
<td>1.0</td>
<td>ASTM E1269</td>
</tr>
<tr>
<td>Hardness (Bulk Rubber) (Shore 00) (1)</td>
<td>40</td>
<td>40</td>
<td>ASTM D2240</td>
</tr>
<tr>
<td>Young’s Modulus (psi) / (kPa) (2)</td>
<td>45</td>
<td>310</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): >6000
- Dielectric Constant (1000 Hz): 5.5
- Volume Resistivity (Ohm-meter): 10^11
- Flame Rating: V-O

**THERMAL**
- Thermal Conductivity (W/m-K): 1.5
- Thermal Impedance (°C-in²/W): 0.040 (3)

**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</td>
<td>1.62</td>
<td>1.50</td>
<td>1.33</td>
</tr>
</tbody>
</table>

1) Thirty second delay value, Shore 80 hardness scale. 2) Young’s Modulus, calculated using 0.01 in/min, step rate of strain with a sample size of 0.79 inch. 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**
- Telecommunications
- Computer and peripherals
- Power conversion
- RDRAM™ memory modules/chip scale packages
- Areas where heat needs to be transferred to a frame chassis or other type of heat spreader

**CONFIGURATIONS AVAILABLE**
- Sheet form and die-cut parts
Disclaimer

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Reference 0.1