**PRODUCT DESCRIPTION**
Highly Conformable, Thermally Conductive, Reworkable Gap Filling Material

**FEATURES AND BENEFITS**
- Thermal Conductivity: 1.3 W/m-K (Bulk Rubber)
- PEN film reinforcement allows easy rework and resistance to puncture and tear resistance
- Highly conformable/low hardness
- Low strain on fragile components

**Typical Applications Include**
- Lighting and LED applications
- Low strain is required for fragile component leads
- Computer and peripherals
- Telecommunications
- Between any heat-generating semiconductor and a heat sink

**Configuration Available**
- Sheet form and die-cut parts

**TYPICAL PROPERTIES OF GAP PAD 1450**

<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>Light Pink</td>
<td>Light Pink</td>
<td>Visual</td>
</tr>
<tr>
<td>Reinforcement Carrier</td>
<td>PEN film</td>
<td>PEN film</td>
<td>—</td>
</tr>
<tr>
<td>Thickness (inch) / (mm)</td>
<td>0.020 to 0.125</td>
<td>0.508 to 3.175</td>
<td>ASTM D374</td>
</tr>
<tr>
<td>Inherent Surface Tack (1 side)</td>
<td>1</td>
<td>1</td>
<td>—</td>
</tr>
<tr>
<td>Density (Bulk Rubber) / (g/cc)</td>
<td>1.8</td>
<td>1.8</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>30</td>
<td>30</td>
<td>ASTM D2240</td>
</tr>
<tr>
<td>Young’s Modulus (psi) / (kPa) (2)</td>
<td>16</td>
<td>110</td>
<td>ASTM D575</td>
</tr>
<tr>
<td>Continuous Use Temp (°F) / (°C)</td>
<td>-76 to 302</td>
<td>-60 to 150</td>
<td>—</td>
</tr>
</tbody>
</table>

**ELECTRICAL**
- Dielectric Breakdown Voltage (Vac) >6000 >6000 ASTM D149
- Dielectric Constant (1000 Hz) 5.0 5.0 ASTM D150
- Volume Resistivity (Ohm-meter) 109 109 ASTM D257
- Flame Rating V-0 V-0 UL 94

**THERMAL**
- Thermal Conductivity (W/m-K) 1.3 1.3 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 inch².

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

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**Gap Pad® 1450** is a highly compliant Gap Pad® material that is ideal for fragile component leads. The material includes a PEN film, which facilitates rework and improves puncture resistance and handling characteristics. The tacky side of Gap Pad® 1450 maintains a conformable, yet elastic nature that provides excellent interfacing and wet-out characteristics, even to surfaces with high roughness or uneven topography.

Gap Pad® 1450 has inherent tack on one side of the material, eliminating the need for thermally impeding adhesive layers.

It is highly recommended that the PEN film be left intact. However, film removal will not have a significant impact on thermal performance.

Please contact your local Bergquist Sales Representative for sample inquiries and additional product information.

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**TYPICAL APPLICATIONS INCLUDE**
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- Low strain is required for fragile component leads
- Computer and peripherals
- Telecommunications
- Between any heat-generating semiconductor and a heat sink

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

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