BERGQUIST GAP PAD TGP 800VO
Known as BERGQUIST GAP PAD VO
October 2018

PRODUCT DESCRIPTION
Conformable, Thermally Conductive Material for Filling Air Gaps.

<table>
<thead>
<tr>
<th>Technology</th>
<th>Silicone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Gold / Pink</td>
</tr>
<tr>
<td>Reinforcement Carrier</td>
<td>Sil-Pad</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.508 to 6.35mm , ASTM D374</td>
</tr>
<tr>
<td>Inherent Surface Tack</td>
<td>1 (1 or 2 sided)</td>
</tr>
<tr>
<td>Application</td>
<td>Thermal management, TIM (Thermal Interface Material)</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-60 to 200°C</td>
</tr>
</tbody>
</table>

FEATURES AND BENEFITS
- Thermal Conductivity: 0.8 W/m-K
- Enhanced puncture, shear and tear resistance
- Conformable gap filling material
- Electrically isolating

BERGQUIST GAP PAD TGP 800VO is a cost-effective, thermally conductive interface material. The material is a filled, thermally conductive polymer supplied on a rubber-coated fiberglass carrier allowing for easy material handling.

The conformable nature of BERGQUIST GAP PAD TGP 800VO allows the pad to fill in air gaps between PC boards and heat sinks or a metal chassis.

TYPICAL APPLICATIONS
- Telecommunications
- Computer and peripherals
- Power conversion
- Between heat-generating semiconductors and a heat sink
- Area where heat needs to be transferred to a frame, chassis, or other type of heat spreader
- Between heat-generating magnetic components and a heat sink

TYPICAL PROPERTIES OF CURED MATERIAL
Young's modulus is calculated using 0.01 in/min, step rate of strain with a sample size 0.79 inch².

<table>
<thead>
<tr>
<th>Physical Properties</th>
<th></th>
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<tbody>
<tr>
<td>Hardness, Shore 00, Thirty second delay value</td>
<td>40</td>
</tr>
<tr>
<td>Heat Capacity, ASTM E1269, J/g-K</td>
<td>1.0</td>
</tr>
<tr>
<td>Density, Bulk rubber, ASTM D792, g/cc</td>
<td>1.6</td>
</tr>
<tr>
<td>Flammability, UL 94</td>
<td>V-0</td>
</tr>
<tr>
<td>Young’s Modulus, ASTM D575</td>
<td>kPa 689 (psi 100)</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Electrical Properties</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Dielectric Breakdown Voltage, ASTM D149, VAC</td>
<td>&gt;6,000</td>
</tr>
<tr>
<td>Dielectric Constant, ASTM D150, 1,000Hz</td>
<td>5.5</td>
</tr>
<tr>
<td>Volume Resistivity, ASTM D257, ohm-meter</td>
<td>1×10¹¹</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Thermal Properties</th>
<th></th>
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<tbody>
<tr>
<td>Thermal Conductivity, ASTM D5470, W/(m-K)</td>
<td>0.8</td>
</tr>
</tbody>
</table>

GENERAL INFORMATION
For safe handling information on this product, consult the Safety Data Sheet, (SDS).

Not for product specifications
The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

CONFIGURATIONS AVAILABLE
BERGQUIST GAP PAD TGP 800VO is available in the following configurations:
- Sheet form
- Die-Cut parts

Natural tack both sides with fiberglass.
STORAGE
Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: 25°C (±3), 50% RH (±10) for a 12 months shelf life. Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Conversions
(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
N x 0.225 = lb
N/mm x 5.71 = lb/in
psi x 145 = N/mm²
MPa = N/mm²
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

Disclaimer
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