BERGQUIST GAP PAD TGP 1100SF

PRODUCT DESCRIPTION
Thermally Conductive, Silicone-Free Gap Filling Material.

**Technology**
Silicone free

**Appearance**
Green

**Reinforcement Carrier**
Fiberglass

**Thickness, ASTM D374**
0.254 to 3.175mm

**Inherent Surface Tack**
2 (1 or 2 sided)

**Application**
Thermal management, TIM (Thermal Interface Material)

**Operating Temperature Range**
-60 to 125°C

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

BERGQUIST GAP PAD TGP 1100SF 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.

BERGQUIST GAP PAD TGP 1100SF 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.

TYPICAL APPLICATIONS
- Digital disk drives / CD-ROM
- Automotive modules
- Fiber optics modules

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.

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<thead>
<tr>
<th>Physical Properties</th>
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<tbody>
<tr>
<td>Hardness, Shore 00, Thirty second delay value, 40 ASTM D2240, Bulk rubber</td>
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<tr>
<td>Heat Capacity, ASTM E1269, J/g-K</td>
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<tr>
<td>Density, Bulk rubber, ASTM D792, g/cc</td>
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<td>Flammability, UL 94</td>
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<td>Young's Modulus, ASTM D575 kPa</td>
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<tr>
<th>Electrical Properties</th>
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<tr>
<td>Dielectric Breakdown Voltage , ASTM D149, VAC</td>
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<td>Dielectric Constant, ASTM D150, 1,000Hz</td>
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<tr>
<td>Volume Resistivity, ASTM D257, ohm-meter</td>
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<tr>
<th>Thermal Properties</th>
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<tr>
<td>Thermal Conductivity, ASTM D5470, W/(m-K)</td>
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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 1100SF is available in the following configurations:
- Sheet form and 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

\((^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}\)

\(\text{kV/mm} \times 25.4 = \text{V/mil}\)

\(\frac{\text{mm}}{25.4} = \text{inches}\)

\(\text{N} \times 0.225 = \text{lb}\)

\(\frac{\text{N/mm}}{5.71} = \text{lb/in}\)

\(\text{psi} \times 145 = \text{N/mm}^2\)

\(\text{MPa} = \text{N/mm}^2\)

\(\text{N} \cdot \text{m} \times 8.851 = \text{lb}\cdot\text{in}\)

\(\text{N} \cdot \text{m} \times 0.738 = \text{lb}\cdot\text{ft}\)

\(\text{N} \cdot \text{mm} \times 0.142 = \text{oz}\cdot\text{in}\)

\(\text{mPa}\cdot\text{s} = \text{cP}\)

Disclaimer

Note:
The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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