BERGQUIST SIL PAD TSP K1100
Known as BERGQUIST SIL-PAD K-6
November 2018

PRODUCT DESCRIPTION
The Economical, High Performance Kapton Based Insulator.

<table>
<thead>
<tr>
<th>Technology</th>
<th>Silicone</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>Blue-green</td>
</tr>
<tr>
<td>Reinforcement</td>
<td>Kapton</td>
</tr>
<tr>
<td>Total Thickness, ASTM D374</td>
<td>0.15 ± 0.025 mm</td>
</tr>
</tbody>
</table>

APPLICATION
Thermal management, Thermally conductive adhesive

OPERATING TEMPERATURE RANGE
-60 to 180°C

BERGQUIST SIL PAD TSP K1100 is a medium performance Kapton based thermally conductive insulator. Thermally conductive Kapton MT film is coated with an aluminum oxide/boron nitride filled silicone elastomer to deliver "boron nitride" performance. Kapton film provides a continuous physically tough dielectric barrier against "cut-through" and resultant assembly failures.

TYPICAL PROPERTIES

Physical Properties
- Hardness, Shore A, ASTM D2240 90
- Breaking Strength, ASTM D1458, KN/m 5
- Elongation, 45º to warp and fill, ASTM D412,% 40
- Tensile Strength, ASTM D412, MPa 35

Electrical Properties
- Dielectric Breakdown Voltage, ASTM D149 (VAC, min) 6,000
- Dielectric Constant, ASTM D150 @ 1,000 Hz 4
- Volume Resistivity, ASTM D257, ohm-meter 1×10¹²

Thermal Properties
- Thermal Conductivity, ASTM D5470, W/(m-K) 1.1
- Thermal Resistance Bergquist Flat Plate Test Method, °C-in²/W 0.3

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 SIL PAD TSP K1100 are supplied in:
- **Special Thicknesses**
  Available in a variety of thicknesses to meet customer requirements.
- **Tolerances**
  .015 inches are held on width, length, hole diameter and hole location. Contact the factory if tighter tolerances are required.
- **Sheet form**
  6" x 6", 6" x 12", 8" x 8", 10" x 10", or 12" x 12" Sheets are available from stock, with or without adhesive.
- **Roll form**
  Sil-Pad materials are available in roll form, with or without adhesive. Contact the factory.
- **Special Shapes**
  We produce thousands of specials. Tooling charges vary depending on tolerances and complexity of the part.

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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Reference 1