



# BERGQUIST SIL PAD TSP K1100

Known as BERGQUIST SIL-PAD K-6  
November 2018

## PRODUCT DESCRIPTION

The Economical, High Performance Kapton Based Insulator.

<b>Technology</b>	Silicone
<b>Appearance</b>	Blue-green
<b>Reinforcement Carrier</b>	Kapton
<b>Total Thickness</b> , ASTM D374	0.15 ± 0.025 mm
<b>Application</b>	Thermal management, Thermally conductive adhesive
<b>Operating Temperature Range</b>	-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 , 45° 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	1×10 <sup>12</sup>

### Thermal Properties

Thermal Conductivity , ASTM D5470, W/(m-K)	1.1
Thermal Resistance Bergquist Flat Plate Test Method, °C-in <sup>2</sup> /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/mm<sup>2</sup>  
MPa = N/mm<sup>2</sup>  
N·m x 8.851 = lb·in  
N·m x 0.738 = lb·ft  
N·mm x 0.142 = oz·in  
mPa·s = cP

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### Note:

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Reference 1



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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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