



# BERGQUIST SIL PAD TSP K1100

Known as BERGQUIST SIL-PAD K-6 November 2018

#### PRODUCT DESCRIPTION

The Economical, High Performance Kapton Based Insulator.

Technology	Silicone
Appearance	Blue-green
Reinforcement Carrier	Kapton
Total Thickness	0.15 ± 0.025
, ASTM D374	mm
Application	Thermal management,
	Thermally conductive adhesive
Operating Temperature	-60 to 180°C
Range	

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	
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	0.3
Method. °C-in²/W	

## **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

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