



# BERGQUIST SIL PAD TSP K900

Known as BERGQUIST SIL-PAD K-4  
November 2018

## PRODUCT DESCRIPTION

The High Performance Kapton Based Insulator.

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

BERGQUIST SIL PAD TSP K900 is designed and developed in conjunction with DuPont. BERGQUIST SIL PAD TSP K900 combines the thermal transfer properties of well known Sil-Pad rubber with high dielectric strength, physically tough DuPont Kapton MT film.

Kapton MT is a specially developed film which has high thermal conductivity. The result is a durable insulator that withstands high voltages, requires no thermal grease to transfer heat, is available in customized shapes and sizes and saves time and costs while increasing productivity.

## 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, 6,000 min)	6,000
Dielectric Constant, ASTM D150 @ 1,000 Hz	5.0
Volume Resistivity, ASTM D257, ohm-meter	1×10 <sup>12</sup>

### Thermal Properties

Thermal Conductivity , ASTM D5470, W/(m-K)	0.9
Thermal Resistance Bergquist Flat Plate Test Method, °C-in <sup>2</sup> /W	0.4
Thermal Vacuum Weight Loss (TML), as manufactured, NASA SP-R-0022A, %	0.28
Volatile Condensable Material (VCM), as manufactured, NASA SP-R-0022A, %	0.07

## 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 K900 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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## Reference 1

# Mouser Electronics

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