



BERGQUIST SIL PAD TSP K900

Known as BERGQUIST SIL-PAD K-4
November 2018

PRODUCT DESCRIPTION

The High Performance Kapton Based Insulator.

| | |
|---------------------------------------|--|
| Technology | Silicone |
| Appearance | Gray |
| Reinforcement Carrier | Kapton |
| Total Thickness , ASTM D374 | 0.15 ± 0.025 mm |
| Application | 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, min) | 6,000 |
| Dielectric Constant, ASTM D150 @ 1,000 Hz | 5.0 |
| Volume Resistivity, ASTM D257, ohm-meter | 1×10 ¹² |

Thermal Properties

| | |
|--|------|
| Thermal Conductivity, ASTM D5470, W/(m-K) | 0.9 |
| Thermal Resistance Bergquist Flat Plate Test Method, °C-in ² /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/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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Note:

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Reference 1



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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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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

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.