



# BERGQUIST SIL PAD TSP PPK1300

Known as BERGQUIST POLY-PAD K-10  
May 2019

## PRODUCT DESCRIPTION

Polyester-Based, Thermally Conductive Insulation Material.

|                                          |                                                      |
|------------------------------------------|------------------------------------------------------|
| <b>Technology</b>                        | Polyester-based                                      |
| <b>Appearance</b>                        | Yellow                                               |
| <b>Reinforcement Carrier</b>             | Kapton                                               |
| <b>Total Thickness</b><br>, ASTM D374    | 0.152 ± 0.25 mm                                      |
| <b>Application</b>                       | Thermal management,<br>Thermally conductive adhesive |
| <b>Maximum<br/>Operating Temperature</b> | 150°C                                                |

## TYPICAL APPLICATIONS

- Applications requiring conformal coatings
- Telecommunications
- Aerospace

BERGQUIST SIL PAD TSP PPK1300 is a composite of DuPont Kapton film coated with a boron nitride-filled polyester resin. BERGQUIST SIL PAD TSP PPK1300 offers superior thermal performance for your most critical applications with thermal resistance of 0.2 °C/Watt as well as excellent dielectric strength.

## TYPICAL PROPERTIES

### Electrical Properties

|                                               |                    |
|-----------------------------------------------|--------------------|
| Dielectric Breakdown Voltage , ASTM D149, VAC | 6,000              |
| Volume Resistivity, ASTM D257, ohm-meter      | 1×10 <sup>12</sup> |

### Thermal Properties

|                                                                                |     |
|--------------------------------------------------------------------------------|-----|
| Thermal Conductivity , ASTM D5470, W/(m-K)                                     | 1.3 |
| Thermal Resistance, Bergquist Flat Plate Test<br>Method, °C-in <sup>2</sup> /W | 0.2 |

## 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.

## Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$   
 $\text{kV/mm} \times 25.4 = \text{V/mil}$   
 $\text{mm} / 25.4 = \text{inches}$   
 $\text{N} \times 0.225 = \text{lb/F}$   
 $\text{N/mm} \times 5.71 = \text{lb/in}$   
 $\text{psi} \times 145 = \text{N/mm}^2$   
 $\text{MPa} = \text{N/mm}^2$   
 $\text{N} \cdot \text{m} \times 8.851 = \text{lb} \cdot \text{in}$   
 $\text{N} \cdot \text{m} \times 0.738 = \text{lb} \cdot \text{ft}$   
 $\text{N} \cdot \text{mm} \times 0.142 = \text{oz} \cdot \text{in}$   
 $\text{mPa} \cdot \text{s} = \text{cP}$

## Disclaimer

### Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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