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0.61



# **BERGQUIST SIL PAD TSP PP900**

Known as BERGQUIST POLY-PAD 400 September 2019

#### PRODUCT DESCRIPTION

Polyester-Based, Thermally Conductive Insulation Material.

Technology	Polyester-based
Appearance	Tan
Reinforcement Carrier	Fiberglass
Total Thickness	0.229mm
, ASTM D374	
Application	Thermal management,
	Thermally conductive adhesive
Operating Temperature	-20 to 150°C
Range	

#### **FEATURES AND BENEFITS**

- Thermal impedance: 1.13°C-in²/W @ 50 psi
- Polyester based
- For applications requiring conformal coatings
- Designed for silicone-sensitive standard applications

#### TYPICAL APPLICATIONS

- Power supplies
- Automotive electronics
- Motor controls
- Power semiconductors

BERGQUIST SIL PAD TSP PP900 is a fiberglass-reinforced insulator coated with a filled polyester resin. BERGQUIST SIL PAD TSP PP900 is economical and designed for most standard applications.

Polyester-based, thermally conductive insulators from BERGQUIST provide a complete family of materials for silicone-sensitive applications. Poly-Pads are ideally suited for applications requiring conformal coatings or applications where silicone contamination is a concern (telecomm and certain aerospace applications).

Poly-Pads are constructed with ceramic-filled polyester resins coating either side of a fiberglass carrier or a film carrier. The Poly-Pad family offers a complete range of performance characteristics to match individual applications.

### **TYPICAL PROPERTIES**

## **Physical Properties**

Hardness, Shore A, ASTM D2240	
Breaking Strength, ASTM D1458, KN/m	
Elongation, 45° to warp and fill, ASTM D412,%	
Tensile Strength, ASTM D412, MPa	
Flammability Rating, UL 94	

#### **Electrical Properties**

Dielectric Breakdown Voltage , ASTM D149, Vac Dielectric Constant, ASTM D150 @ 1,000 Hz Volume Resistivity, ASTM D257, ohm-meter	2,500 5.5 1×10 <sup>11</sup>
Thermal Properties Thermal Conductivity , ASTM D5470, W/(m-K)	0.9
Thermal Performance vs. Pressure TO-220 Thermal Performance, °C/W	
@ 10 psi	5.85
@ 25 psi	5.61
@ 50 psi	5.13
@ 100 psi	4.59
@ 200 psi	4.12
Thermal Impedance, ASTM D5470, °C-in²/W (1)	
@ 10 psi	1.62
@ 25 psi	1.35
@ 50 psi	1.13

I) The ASTM D5470 test fixture was used. The recorded value includes interfacial thermal resistance. These values are provided for reference only. Actual application performance is directly related to the surface roughness, flatness and pressure applied.

## **GENERAL INFORMATION**

@ 100 psi

@ 200 psi

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 PP900 are supplied in:

- Sheet form, roll form and die-cut parts
- With or without pressure-sensitive adhesive
- 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/F 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

#### 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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Reference 2

# **Mouser Electronics**

**Authorized Distributor** 

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# Bergquist Company:

PP400-0.009-00-1212 PP400-0.009-AC-1212 PP400-0.009-00-10 PP400-0.009-00-100 PP400-0.009-00-101 PP400-0.009-00-102 PP400-0.009-00-103 PP400-0.009-00-104 PP400-0.009-AC-98 PP400-0.009-AC-99 PP400-0.009-AC-92 PP400-0.009-AC-93 PP400-0.009-AC-94 PP400-0.009-AC-95 PP400-0.009-AC-96 PP400-0.009-AC-97 PP400-0.009-AC-87 PP400-0.009-AC-88 PP400-0.009-AC-89 PP400-0.009-AC-9 PP400-0.009-AC-90 PP400-0.009-AC-91 PP400-0.009-AC-81 PP400-0.009-AC-82 PP400-0.009-AC-83 PP400-0.009-AC-84 PP400-0.009-AC-85 PP400-0.009-AC-86 PP400-0.009-AC-76 PP400-0.009-AC-77 PP400-0.009-AC-78 PP400-0.009-AC-79 PP400-0.0 0.009-AC-8 PP400-0.009-AC-80 PP400-0.009-AC-67 PP400-0.009-AC-68 PP400-0.009-AC-7 PP400-0.009-AC-70 PP400-0.009-AC-73 PP400-0.009-AC-75 PP400-0.009-AC-61 PP400-0.009-AC-62 PP400-0.009-AC-63 PP400-0.009-AC-64 PP400-0.009-AC-65 PP400-0.009-AC-66 PP400-0.009-AC-56 PP400-0.009-AC-57 PP400-0.009-AC-58 PP400-0.009-AC-59 PP400-0.009-AC-6 PP400-0.009-AC-60 PP400-0.009-AC-50 PP400-0.009-AC-51 PP400-0.009-AC-52 PP400-0.009-AC-53 PP400-0.009-AC-54 PP400-0.009-AC-55 PP400-0.009-AC-44 PP400-0.009-AC-45 PP400-0.009-AC-46 PP400-0.009-AC-47 PP400-0.009-AC-48 PP400-0.009-AC-5 PP400-0.009-AC-39 PP400-0.009-AC-4 PP400-0.009-AC-40 PP400-0.009-AC-41 PP400-0.009-AC-42 PP400-0.009-AC-43 PP400-0.009-AC-33 PP400-0.009-AC-34 PP400-0.009-AC-35 PP400-0.009-AC-36 PP400-0.009-AC-37 PP400-0.009-AC-38 PP400-0.009-AC-28 PP400-0.009-AC-29 PP400-0.009-AC-3 PP400-0.009-AC-30 PP400-0.009-AC-31 PP400-0.009-AC-32 PP400-0.009-AC-22 PP400-0.009-AC-23 PP400-0.009-AC-24 PP400-0.009-AC-25 PP400-0.009-AC-26 PP400-0.009-AC-27 PP400-0.009-AC-17 PP400-0.009-AC-18 PP400-0.009-AC-19 PP400-0.009-AC-2 PP400-0.009-AC-20 PP400-0.009-AC-21 PP400-0.009-AC-135 PP400-0.009-AC-136 PP400-0.009-AC-137 PP400-0.009-AC-138 PP400-0.009-AC-15 PP400-0.009-AC-16