



BERGQUIST SIL PAD TSP PP1200

Known as BERGQUIST POLY-PAD 1000 September 2019

PRODUCT DESCRIPTION

Polyester-Based, Thermally Conductive Insulation Material.

Technology	Polyester-based
Appearance	Yellow
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: 0.82°C-in²/W @ 50 psi
- Polyester based
- For applications requiring non-silicone conformal coatings
- Designed for silicone-sensitive applications requiring high performance

TYPICAL APPLICATIONS

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

BERGQUIST SIL PAD TSP PP1200 is a fiberglass-reinforced insulator coated with a filled polyester resin. The material offers superior thermal resistance for high performance 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	90
Breaking Strength, ASTM D1458, KN/m	18
Elongation , ASTM D412,%	10
Tensile Strength, ASTM D412, MPa	48

Electrical Properties

2,500 4.5 1×10 ¹¹
1.2

Thermal Performance vs. Pressure

O-220 Thermal Performance, °C/W	
@ 10 psi	4.7
@ 25 psi	4.25
@ 50 psi	3.74
@ 100 psi	3.27
@ 200 psi	2.89
Thermal Impedance, ASTM D5470, °C-in²/W (1)	
@ 10 psi	1.3
@ 25 psi	1.02
@ 50 psi	0.82
@ 100 psi	0.61
@ 200 psi	0.43

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

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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 PP1200 are supplied in:

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



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:

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Reference 2

Mouser Electronics

Authorized Distributor

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Bergquist Company:

PP1000-0.009-00-1212 PP1000-0.009-AC-1212 PP1000-0.009-00-10 PP1000-0.009-00-100 PP1000-0.009-00-101 PP1000-0.009-00-102 PP1000-0.009-00-103 PP1000-0.009-00-104 PP1000-0.009-00-105 PP1000-0.009-00-11 PP1000-0.009-00-110 PP1000-0.009-00-111 PP1000-0.009-00-112 PP1000-0.009-00-113 PP1000-0.009-00-114 PP1000-0.009-00-115 PP1000-0.009-00-116 PP1000-0.009-00-117 PP1000-0.009-00-118 PP1000-0.009-00-119 PP1000-0.009-00-12 PP1000-0.009-00-120 PP1000-0.009-00-121 PP1000-0.009-00-122 PP1000-0.009-00-123 PP1000-0.009-00-124 PP1000-0.009-00-125 PP1000-0.009-00-126 PP1000-0.009-00-127 PP1000-0.009-00-128 PP1000-0.009-00-129 PP1000-0.009-00-13 PP1000-0.009-00-130 PP1000-0.009-00-131 PP1000-0.009-00-132 PP1000-0.009-00-133 PP1000-0.009-00-134 PP1000-0.009-00-135 PP1000-0.009-00-136 PP1000-0.009-00-137 PP1000-0.009-00-138 PP1000-0.009-00-15 PP1000-0.009-00-16 PP1000-0.009-00-17 PP1000-0.009-00-18 PP1000-0.009-00-19 PP1000-0.009-00-2 PP1000-0.009-00-20 PP1000-0.009-00-21 PP1000-0.009-00-22 PP1000-0.009-00-23 PP1000-0.009-00-24 PP1000-0.009-00-25 PP1000-0.009-00-26 PP1000-0.009-00-27 PP1000-0.009-00-28 PP1000-0.009-00-29 PP1000-0.009-00-3 PP1000-0.009-00-30 PP1000-0.009-00-31 PP1000-0.009-00-32 PP1000-0.009-00-33 PP1000-0.009-00-34 PP1000-0.009-00-35 PP1000-0.009-00-36 PP1000-0.009-00-37 PP1000-0.009-00-38 PP1000-0.009-00-39 PP1000-0.009-00-4 PP1000-0.009-00-40 PP1000-0.009-00-41 PP1000-0.009-00-42 PP1000-0.009-00-43 PP1000-0.009-00-44 PP1000-0.009-00-45 PP1000-0.009-00-46 PP1000-0.009-00-47 PP1000-0.009-00-48 PP1000-0.009-00-5 PP1000-0.009-00-50 PP1000-0.009-00-51 PP1000-0.009-00-52 PP1000-0.009-00-53 PP1000-0.009-00-54 PP1000-0.009-00-55 PP1000-0.009-00-56 PP1000-0.009-00-57 PP1000-0.009-00-58 PP1000-0.009-00-59 PP1000-0.009-00-6 PP1000-0.009-00-60 PP1000-0.009-00-61 PP1000-0.009-00-62 PP1000-0.009-00-63 PP1000-0.009-00-64 PP1000-0.009-00-65 PP1000-0.009-00-66 PP1000-0.009-00-67 PP1000-0.009-00-68 PP1000-0.009-00-7