



BERGQUIST SIL PAD TSP 3500

Known as BERGQUIST SIL-PAD 2000 November 2018

PRODUCT DESCRIPTION

Higher Performance, High Reliability Insulator.

Technology	Silicone	
Appearance	White	
Reinforcement Carrier	Fiberglass	
Total Thickness	0.254 to 0.508mm	
, ASTM D374		
Application	Thermal management,	
	Thermally conductive adhesive	
Operating Temperature Range	-60 to 200°C	

FEATURES AND BENEFITS

• Thermal impedance: 0.33°C-in²/W @ 50 psi

Optimal heat transfer

High Thermal Conductivity: 3.5 W/m-K

TYPICAL APPLICATIONS

- Power supplies
- Motor controls
- Power semiconductors
- Aerospace
- Avionics

BERGQUIST SIL PAD TSP 3500 is a high performance, thermally conductive insulator designed for demanding aerospace and commercial applications. BERGQUIST SIL PAD TSP 3500 is a silicone elastomer formulated to maximize the thermal and dielectric performance of the filler/binder matrix

The result is a grease-free, conformable material capable of meeting or exceeding the thermal and electrical requirements of high reliability electronic packaging applications.

TYPICAL PROPERTIES

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Pn	vsica	ı Pro	perties

Hardness, Shore A, ASTM D2240 Flammability Rating, UL 94	90 V-0
Electrical Properties Dielectric Breakdown Voltage , ASTM D149, Vac Dielectric Constant, ASTM D150 @ 1,000 Hz Volume Resistivity, ASTM D257, ohm-meter	4,000 4.0 1×10 ¹¹
Thermal Properties	

Thermal Conductivity, ASTM D5470, W/(m-K)

Thermal Performance vs. Pressure

TO-220 Thermal Performance

2.61
2.32
2.02
1.65
1.37
0.57
0.43
0.33
0.25
0.2

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

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 3500 are supplied in:

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

Conversions

3.5

 $(^{\circ}C \times 1.8) + 32 = ^{\circ}F$ 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



Disclaimer

Note:

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Reference 1

Mouser Electronics

Authorized Distributor

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Bergquist Company:

<u>SP2000-0.010-AC-1212</u> <u>SP2000-0.020-00-1212</u> <u>SP2000-0.020-AC-1212</u> <u>SP2000-0.015-00-58</u> <u>SP2000-0.010-00-1212</u> <u>SP2000-0.015-00-122</u> <u>SP2000-0.015-00-1212</u> <u>2015AC-63</u> <u>2015AC-52</u> <u>SP2000-0.015-AC-1212</u> <u></u>