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BERGQUIST SIL PAD TSP 1100ST

Known as BERGQUIST SIL-PAD 1100ST October 2018

PRODUCT DESCRIPTION

Affordable, Electrically Insulating, Thermally Conductive, Soft Tack Elastomeric Material.

Technology	Silicone
Appearance	Yellow
Reinforcement Carrier	Fiberglass
Total Thickness	0.305mm
Inherent Surface Tack	2 (2 sides)
Application	Thermal management, Thermally conductive adhesive
Operating Temperature Range	-60 to 180°C

FEATURES AND BENEFITS

- Inherent tack on both sides for exceptional thermal performance and easy placement
- Re-positionable for higher utilization, ease of use and assembly error reduction
- Lined on both sides for ease of handling prior to placement in high volume assemblies
- Exhibits exceptional thermal performance even at a low mounting pressure
- · Fiberglass reinforced
- Value alternative to BERGQUIST SIL PAD TSP 1800ST

TYPICAL APPLICATIONS

- Automotive ECMs
- Motor controls
- Power supplies
- Between an electronic power device and its heat sink

BERGQUIST SIL PAD TSP 1100ST is a fiberglass-reinforced thermal interface material featuring inherent tack on both sides. The material exhibits excellent thermal performance at low mounting pressures.

BERGQUIST SIL PAD TSP 1100ST is supplied on two liners for exceptionally easy handling prior to auto-placement in high-volume assemblies. It is ideal for placement between an electronic power device and its heat sink.

TYPICAL PROPERTIES

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Phvs	sical	Pron	erties

Hardness, Shore 00, 30 second delay, ASTM 85 D2240
Hardness, Shore 00, ASTM D2240 (1) 85

Breaking Strength, ASTM D1458, KN/m
6.5
Elongation , 45° to warp and fill, ASTM D412,%
Tensile Strength, ASTM D412, MPa
7.5
Flammability Rating, UL 94
7.5

Electrical Properties

Dielectric Breakdown Voltage , ASTM D149, Vac 5,000 Dielectric Constant, ASTM D150 @ 1,000 Hz 5.0 Volume Resistivity, ASTM D257, ohm-meter 1×10¹⁰

Thermal Properties

Thermal Conductivity, ASTM D5470, W/(m-K) 1.1

Thermal Performance vs. Pressure

TO-220 Thermal Performance, °C/W

@ 10 psi	2.12
@ 25 psi	2.71
@ 50 psi	2.68
@ 100 psi	2.62
@ 200 psi	2.23

Thermal Impedance, ASTM D5470, °C-in²/W (1)

@ 10 psi	0.75
@ 25 psi	0.71
@ 50 psi	0.66
@ 100 psi	0.61
@ 200 psi	0.57

(1) The ASTM D5470 test fixture was utilized. The recorded values include the interfacial thermal resistance. The 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 1100ST is supplied in:

- · Sheet form, roll form and die-cut parts
- Top and bottom liners

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

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 1

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bergquist Company:

SP1100ST-0.012-02-1212 SP1100ST-0.012-02-88 SP1100ST-0.012-02-89 SP1100ST-0.012-02-9 SP1100ST-0.012-02-90 SP1100ST-0.012-02-91 SP1100ST-0.012-02-92 SP1100ST-0.012-02-93 SP1100ST-0.012-02-94 SP1100ST-0.012-02-95 SP1100ST-0.012-02-96 SP1100ST-0.012-02-97 SP1100ST-0.012-02-98 SP1100ST-0.012-02-99 SP1100ST-0.012-02-10 SP1100ST-0.012-02-100 SP1100ST-0.012-02-101 SP1100ST-0.012-02-102 SP1100ST-0.012-02-103 SP1100ST-0.012-02-104 SP1100ST-0.012-02-105 SP1100ST-0.012-02-11 SP1100ST-0.012-02-110 SP1100ST-0.012-02-111 SP1100ST-0.012-02-112 SP1100ST-0.012-02-113 SP1100ST-0.012-02-114 SP1100ST-0.012-02-115 SP1100ST-0.012-02-116 SP1100ST-0.012-02-117 SP1100ST-0.012-02-118 SP1100ST-0.012-02-119 SP1100ST-0.012-02-12 SP1100ST-0.012-02-120 SP1100ST-0.012-02-121 SP1100ST-0.012-02-122 SP1100ST-0.012-02-123 SP1100ST-0.012-02-124 SP1100ST-0.012-02-125 SP1100ST-0.012-02-126 SP1100ST-0.012-02-127 SP1100ST-0.012-02-128 SP1100ST-0.012-02-129 SP1100ST-0.012-02-13 SP1100ST-0.012-02-130 SP1100ST-0.012-02-131 SP1100ST-0.012-02-132 SP1100ST-0.012-02-133 SP1100ST-0.012-02-134 SP1100ST-0.012-02-135 SP1100ST-0.012-02-136 SP1100ST-0.012-02-137 SP1100ST-0.012-02-138 SP1100ST-0.012-02-15 SP1100ST-0.012-02-16 SP1100ST-0.012-02-17 SP1100ST-0.012-02-18 SP1100ST-0.012-02-19 SP1100ST-0.012-02-2 SP1100ST-0.012-02-20 SP1100ST-0.012-02-21 SP1100ST-0.012-02-22 SP1100ST-0.012-02-23 SP1100ST-0.012-02-24 SP1100ST-0.012-02-25 SP1100ST-0.012-02-26 SP1100ST-0.012-02-27 SP1100ST-0.012-02-28 SP1100ST-0.012-02-29 SP1100ST-0.012-02-3 SP1100ST-0.012-02-30 SP1100ST-0.012-02-31 SP1100ST-0.012-02-32 SP1100ST-0.012-02-33 SP1100ST-0.012-02-34 SP1100ST-0.012-02-35 SP1100ST-0.012-02-36 SP1100ST-0.012-02-37 SP1100ST-0.012-02-38 SP1100ST-0.012-02-39 SP1100ST-0.012-02-4 SP1100ST-0.012-02-40 SP1100ST-0.012-02-41 SP1100ST-0.012-02-42 SP1100ST-0.012-02-43 SP1100ST-0.012-02-44 SP1100ST-0.012-02-45 SP1100ST-0.012-02-46 SP1100ST-0.012-02-47 SP1100ST-0.012-02-48 SP1100ST-0.012-02-5 SP1100ST-0.012-02-50 SP1100ST-0.012-02-51 SP1100ST-0.012-02-52 SP1100ST-0.012-02-53 SP1100ST-0.012-02-54 SP1100ST-0.012-02-55 SP1100ST-0.012-02-56 SP1100ST-0.012-02-57 SP1100ST-0.012-02-58