



BERGQUIST SIL PAD TSP Q2500

Known as BERGQUIST Q-PAD II September 2019

PRODUCT DESCRIPTION

Foil-Format Grease Replacement for Maximum Heat Transfer.

Technology	Silicone
Appearance	Black
Reinforcement Carrier	Aluminum
Total Thickness	0.152mm
, ASTM D374	
Application	Thermal management,
	Thermally conductive adhesive
Operating Temperature	-60 to 180°C
Range	

FEATURES AND BENEFITS

- Thermal impedance: 0.22°C-in²/W @ 50 psi
- Maximum heat transfer
- · Aluminum foil coated both sides
- Designed to replace thermal grease

TYPICAL APPLICATIONS

- Between a transistor and a heat sink
- Between two large surfaces such as an L-bracket and the chassis of an assembly
- Between a heat sink and a chassis
- Under electrically isolated power modules or devices such as resistors, transformers and solid state relays

BERGQUIST SIL PAD TSP Q2500 is a composite of aluminum foil coated on both sides with thermally/ electrically conductive Sil-Pad rubber. The material is designed for those applications in which maximum heat transfer is needed and electrical isolation is not required.

BERGQUIST SIL PAD TSP Q2500 is the ideal thermal interface material to replace messy thermal grease compounds . BERGQUIST SIL PAD TSP Q2500 eliminates problems associated with grease such as contamination of reflow solder or cleaning operations.

Unlike grease, BERGQUIST SIL PAD TSP Q2500 can be used prior to these operations. BERGQUIST SIL PAD TSP Q2500 also eliminates dust collection which can cause possible surface shorting or heat buildup.

TYPICAL PROPERTIES Physical Properties Hardness, Shore A, ASTM D2240 Flammability Rating, UL 94	93 V-0
Electrical Properties Dielectric Breakdown Voltage , ASTM D149, Vac	Non-Ins ulating
Dielectric Constant, ASTM D150 @ 1,000 Hz Volume Resistivity, ASTM D257, ohm-meter	NA 1×10 ²
Thermal Properties Thermal Conductivity , ASTM D5470, W/(m-K)	2.5
Thermal Performance vs. Pressure TO-220 Thermal Performance, °C/W @ 10 psi @ 25 psi @ 50 psi @ 100 psi @ 200 psi	2.44 1.73 1.23 1.05 0.92
Thermal Impedance, ASTM D5470, °C-in²/W (1) @ 10 psi @ 25 psi @ 50 psi @ 100 psi @ 200 psi	0.52 0.3 0.22 0.15 0.12

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 Q2500 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:

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.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:

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. 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.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Corporation, Resin Technology Group, Inc., or Henkel Canada Corporation, the following disclaimer is applicable:

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

Trademark usage: [Except as otherwise noted] All trademarks in this document are trademarks and/or registered trademarks of Henkel and its affiliates in the U.S. and elsewhere

Reference 2

Mouser Electronics

Authorized Distributor

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

Bergquist Company:

QII-0.006-AC-1212-NA QII-0.006-00-1212-NA QII-0.006-AC-1212 QII-0.006-00-101 QII-0.006-00-1212 QII-0.006-AC-32 QII-0.006-AC-33 QII-0.006-AC-34 QII-0.006-AC-35 QII-0.006-AC-36 QII-0.006-AC-37 QII-0.006-AC-38 QII-0.00 0.006-AC-39 QII-0.006-AC-4 QII-0.006-AC-40 QII-0.006-AC-41 QII-0.006-AC-42 QII-0.006-AC-43 QII-0.006-AC-44 QII-0.006-AC-45 QII-0.006-AC-46 QII-0.006-AC-47 QII-0.006-AC-48 QII-0.006-AC-5 QII-0.006-AC-50 QII-0.006-AC-51 QII-0.006-AC-52 QII-0.006-AC-53 QII-0.006-AC-54 QII-0.006-AC-55 QII-0.006-AC-56 QII-0.006-AC-57 QII-0.006-AC-50 QII-0.006-A 0.006-AC-58 QII-0.006-AC-59 QII-0.006-AC-6 QII-0.006-AC-60 QII-0.006-AC-61 QII-0.006-AC-62 QII-0.006-AC-63 QII-0.006-AC-64 QII-0.006-AC-65 QII-0.006-AC-66 QII-0.006-AC-67 QII-0.006-AC-68 QII-0.006-AC-7 QII-0.006-AC-70 QII-0.006-AC-73 QII-0.006-AC-75 QII-0.006-AC-76 QII-0.006-AC-77 QII-0.006-AC-78 QII-0.006-AC-79 QII-0.006-AC-70 QII-0.006-AC-70 QII-0.006-AC-70 QII-0.006-A 0.006-AC-8 QII-0.006-AC-80 QII-0.006-AC-81 QII-0.006-AC-82 QII-0.006-00-89 QII-0.006-00-9 QII-0.006-00-90 QII-0.006-00-91 QII-0.006-00-92 QII-0.006-00-93 QII-0.006-00-94 QII-0.006-00-95 QII-0.006-00-96 QII-0.006-00-97 QII-0.006-00-98 QII-0.006-00-99 QII-0.006-AC-10 QII-0.006-AC-100 QII-0.006-AC-101 QII-0.006-AC-102 QII-0.006-AC-101 QII-0.006-AC-101 QII-0.006-AC-102 QII-0.006-AC-101 QII-0.006-AC-100 QII-0.006-AC-10.006-AC-10.006-AC-10.006-AC-100 QII-0.006-AC-0.006-AC-103 QII-0.006-AC-104 QII-0.006-AC-105 QII-0.006-AC-11 QII-0.006-AC-110 QII-0.006-AC-111 QII-0.006-AC-103 QII-0.006-AC-104 QII-0.006-AC-105 QII-0.006-AC-111 QII-0.006-AC-105 QII-0.006-AC-110 QII-0.006-AC-105 QII-0.006-AC-110 QII-0.006-AC-110 QII-0.006-AC-110 QII-0.006-AC-111 QII-0.006-AC-110 QII-0.006-A AC-112 QII-0.006-AC-113 QII-0.006-AC-114 QII-0.006-AC-115 QII-0.006-AC-116 QII-0.006-AC-117 QII-0.006-AC-118 QII-0.006-AC-119 QII-0.006-AC-12 QII-0.006-AC-120 QII-0.006-AC-121 QII-0.006-AC-122 QII-0.006-AC-123 QII-0.006-AC-124 QII-0.006-AC-125 QII-0.006-AC-126 QII-0.006-AC-127 QII-0.006-AC-128 QII-0.006-AC-129 QII-0.006-AC-128 QII-0.006-AC-129 QII-0.006-AC-128 QII-0.006-AC-129 QII-0.006-AC-128 QII-0.006-AC-129 QII-0.006-AC-128 QII-0.006-AC-129 QII-0.006-AC-128 QII-0.006-AC-128 QII-0.006-AC-129 QII-0.006-AC-128 QII-0.006-AC-128 QII-0.006-AC-129 QII-0.006-AC-128 QII-0.006-AC-128 QII-0.006-AC-128 QII-0.006-AC-129 QII-0.006-AC-128 QII-0. 0.006-AC-13 QII-0.006-AC-130 QII-0.006-AC-131