Technical Data Sheet

BERGQUIST GAP PAD TGP 800VO

Known as BERGQUIST GAP PAD VO
October 2018

PRODUCT DESCRIPTION

Conformable, Thermally Conductive Material for Filling Air Gaps.

Technology	Silicone
Appearance	Gold / Pink
Reinforcement Carrier	Sil-Pad
Thickness	0.508 to 6.35mm , ASTM D374
Inherent Surface Tack	1 (1 or 2 sided)
Application	Thermal management, TIM (Thermal Interface Material)
Operating Temperature Range	-60 to 200ºC

FEATURES AND BENEFITS

- Thermal Conductivity: 0.8 W/m-K
- Enhanced puncture, shear and tear resistance
- Conformable gap filling material
- Electrically isolating

BERGQUIST GAP PAD TGP 800VO is a cost-effective, thermally conductive interface material. The material is a filled, thermally conductive polymer supplied on a rubber-coated fiberglass carrier allowing for easy material handling.

The conformable nature of BERGQUIST GAP PAD TGP 800VO allows the pad to fill in air gaps between PC boards and heat sinks or a metal chassis.

TYPICAL APPLICATIONS

- Telecommunications
- Computer and peripherals
- Power conversion
- Between heat-generating semiconductors and a heat sink
- Area where heat needs to be transferred to a frame, chassis, or other type of heat spreader
- Between heat-generating magnetic components and a heat sink

TYPICAL PROPERTIES OF CURED MATERIAL

Young's modulus is calculated using 0.01 in/min, step rate of strain with a sample size 0.79 inch² .

Physical Properties		
Hardness, Shore 00, Thirty second delay value, ASTM D2240, Bulk rubber		40
Heat Capacity, ASTM E1269, J/g-K		1.0
Density, Bulk rubber, ASTM D792, g/cc		1.6
Flammability, UL 94		V-0
Young's Modulus, ASTM D575	kPa (psi)	689 (100)
Electrical Properties		
Dielectric Breakdown Voltage , ASTM D149, VAC		>6,000
Dielectric Constant, ASTM D150, 1,000Hz		5.5
Volume Resistivity, ASTM D257, ohm-meter		1×10^{11}
Thermal Properties		
Thermal Conductivity, ASTM D5470, W/(m-K)		0.8

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 GAP PAD TGP 800VO is available in the following configurations:

- Sheet form
- Die-Cut parts

Natural tack both sides with fiberglass.

STORAGE

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: 25ºC (±3), 50% RH (±10) for a 12 months shelf life. Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

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

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