

(psi)

(8)



BERGQUIST GAP PAD TGP 1000VOUSB

Known as BERGQUIST GAP PAD VO ULTRA SOFT-B November 2018

PRODUCT DESCRIPTION

Ultra Conformable, Thermally Conductive Material for Filling Air Gaps.

Technology	Silicone
Appearance	Black
Reinforcement Carrier	Fiberglass
Thickness, ASTM D374	0.508 to 3.175mm
Inherent Surface Tack	1 (1 sided)
Application	Thermal management, TIM (Thermal Interface Material)
Operating Temperature Range	-60 to 200°C

FEATURES AND BENEFITS

- Thermal Conductivity: 1.0 W/m-K
- · Highly Conformable, low hardness
- "Gel-like" modulus
- Decreased strain
- · Puncture, shear and tear resistant
- Electrically isolating

BERGQUIST GAP PAD TGP 1000VOUSB is recommended for applications that require a minimum amount of pressure on components. The viscoelastic nature of the material also gives excellent low-stress vibration dampening and shock absorbing characteristics.

BERGQUIST GAP PAD TGP 1000VOUSB is an electrically isolating material, which allows its use in applications requiring isolation between eat sinks and high-voltage, bare-leaded devices.

TYPICAL APPLICATIONS

- Various IC packages
- Telecommunications
- Between any heat-generating semiconductor and a heat sink
- Automotive
- LED lighting packages
- Computer and peripherals

TYPICAL PROPERTIES OF CURED MATERIAL

5
1.0
1.6
V-0
55

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

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Thermal Conductivity, ASTM D5470, W/(m-K)	1.0
Thermal Impedance	
ASTM D5470, °C-in²/W:	
@ 0.040":	
10% Deflection	1.97
20% Deflection	1.87
30% Deflection	1.68
@ 1.016 mm:	
10% Deflection	12.7
20% Deflection	12.1
30% Deflection	10.8

⁽¹⁾ Young's Modulus, calculated using 0.01 in/min. step rate of strain with a sample size of 0.79 inch 2

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.



⁽²⁾ 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

CONFIGURATIONS AVAILABLE

BERGQUIST GAP PAD TGP 1000VOUSB 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: 25°C (±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

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

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

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