



# BERGQUIST GAP PAD TGP 2700

Known as BERGQUIST GAP PAD 2500  
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## PRODUCT DESCRIPTION

Thermally Conductive, Un-Reinforced Gap Filling Material.

<b>Technology</b>	Silicone
<b>Appearance</b>	Light brown
<b>Thickness</b>	0.508 to 3.175mm , ASTM D374
<b>Inherent Surface Tack</b>	2 (1 or 2 sided)
<b>Application</b>	Thermal management, TIM (Thermal Interface Material)
<b>Operating Temperature Range</b>	-60 to 200°C

## FEATURES AND BENEFITS

- Thermal Conductivity: 2.7 W/m-K
- High thermal performance, cost-effective solution
- Un-reinforced construction for additional compliancy
- Medium compliancy and conformability

BERGQUIST GAP PAD TGP 2700 is a thermally conductive, electrically insulating, un-reinforced gap filling material. The fiberglass reinforcement allows for easy material handling and enhances puncture, shear and tear resistance. BERGQUIST GAP PAD TGP 2700 is a filled-polymer material yielding an elastic polymer that allows for easy handling and converting without the need for reinforcement. These properties also allow for good wet-out and interfacing characteristics to surfaces with roughness and/or topography. All these characteristics make this material ideal for applications using either clip or screw-mounted assemblies.

BERGQUIST GAP PAD TGP 2700 is offered with inherent natural tack on both sides of the material allowing for stick-in-place characteristics during application assembly. The material is supplied with protective liners on both sides.

## TYPICAL APPLICATIONS

- Multiple heat-generating components to a common heat sink
- Graphics chips to heat sinks
- Processors to heat sinks
- Mass storage drives
- Wireline / wireless communications hardware

## 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 inch<sup>2</sup>.

### Physical Properties

Hardness, Shore 00, Thirty second delay value, ASTM D2240, Bulk rubber	80
Heat Capacity, ASTM E1269, J/g-K	1.0
Density, Bulk rubber, ASTM D792, g/cc	3.1
Flammability, UL 94	V-0
Young's Modulus, ASTM D575	kPa 779 (psi) (113)

### Electrical Properties

Dielectric Breakdown Voltage, ASTM D149, VAC	>6,000
Dielectric Constant, ASTM D150, 1,000Hz	6.8
Volume Resistivity, ASTM D257, ohm-meter	1×10 <sup>11</sup>

### Thermal Properties

Thermal Conductivity, ASTM D5470, W/(m-K)	2.7
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## 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 2700 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

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$   
 $\text{kV/mm} \times 25.4 = \text{V/mil}$   
 $\text{mm} / 25.4 = \text{inches}$   
 $\text{N} \times 0.225 = \text{lb}$   
 $\text{N/mm} \times 5.71 = \text{lb/in}$   
 $\text{psi} \times 145 = \text{N/mm}^2$   
 $\text{MPa} = \text{N/mm}^2$   
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$   
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$   
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$   
 $\text{mPa}\cdot\text{s} = \text{cP}$

## 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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