



# BERGQUIST GAP PAD TGP 3004SF

Known as BERGQUIST GAP PAD 3004SF

April 2019

## PRODUCT DESCRIPTION

High Performance, Thermally Conductive Material With Silicone-Free Formulation.

|                                    |  |
|------------------------------------|--|
| <b>Technology</b>                  | Silicone free  |
| <b>Appearance</b>                  | Light gray   |
| <b>Reinforcement Carrier</b>       | 0.25 mil PET film                                    |
| <b>Thickness, ASTM D374</b>        | 0.254 to 3.175mm , ASTM D374                         |
| <b>Inherent Surface Tack</b>       | 1  |
| <b>Application</b>                 | Thermal management, TIM (Thermal Interface Material) |
| <b>Operating Temperature Range</b> | -40 to 125°C   |

## FEATURES AND BENEFITS

- Thermal Conductivity: 3.0 W/m-K
- Excellent thermal performance
- Silicone-free formulation
- 0.25 mil PET provides easy disassembly, leaving no residue
- Tacky side allows for ease of handling and placement

BERGQUIST GAP PAD TGP 3004SF high performance, 3.0 W/m-K, thermally conductive gap filling material. BERGQUIST GAP PAD TGP 3004SF is silicone-free by design and offers exceptionally low interfacial resistances to adjacent surfaces.

BERGQUIST GAP PAD TGP 3004SF is designed for applications that are silicone-sensitive. BERGQUIST GAP PAD TGP 3004SF is constructed using a 0.25 mil PET film that provides a no tack surface on one side and natural tack on the other side.

## TYPICAL APPLICATIONS

- Hard disk drives
- HDD/SSD combination drives
- Medical devices
- Optical components
- Laser optics
- HDD case to tray
- Automotive electronics (HEV, NEV, batteries)
- Solar energy
- LED lighting

## TYPICAL PROPERTIES OF CURED MATERIAL

### Physical Properties

|   |     |
|---|-----|
| Hardness, Shore 00, Thirty second delay value @ 70 250 mil, 23°C, ASTM D2240, Bulk rubber |     |
| Heat Capacity, ASTM E1269, J/g-K  | 0.8 |
| Density, Bulk rubber, ASTM D792, g/cc   | 3.2 |
| Flammability, UL 94   | V-0 |

### Electrical Properties

|   |                    |
|---|--------------------|
| Dielectric Breakdown Voltage , ASTM D149, VAC | >6,000             |
| Dielectric Constant, ASTM D150, 1,000Hz       | 8.0                |
| Volume Resistivity, ASTM D257, ohm-meter      | 1×10 <sup>11</sup> |

### Thermal Properties

|   |     |
|---|-----|
| Thermal Conductivity, ASTM D5470, W/(m-K) | 3.0 |
|---|-----|

## 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 3004SF is available in the following configurations:

- Sheet form
- Die-Cut parts
- Custom thicknesses available upon request

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**

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

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Reference 3

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