



# BERGQUIST GAP PAD TGP 2202SF

Known as BERGQUIST GAP PAD 2202SF

April 2019

## PRODUCT DESCRIPTION

Silicone-Free Formulation, High Performance Thermally Conductive Material.

|                                    |                                                      |
|------------------------------------|------------------------------------------------------|
| <b>Technology</b>                  | Silicone free                                        |
| <b>Appearance</b>                  | Gray                                                 |
| <b>Reinforcement Carrier</b>       | 0.5 mil PET film                                     |
| <b>Thickness, ASTM D374</b>        | 0.254 to 3.175mm , ASTM D374                         |
| <b>Inherent Surface Tack</b>       | 1 (2 sides)                                          |
| <b>Application</b>                 | Thermal management, TIM (Thermal Interface Material) |
| <b>Operating Temperature Range</b> | -40 to 125°C                                         |

## FEATURES AND BENEFITS

- Thermal Conductivity: 2.0 W/m-K
- Silicone-free formulation
- Minimal compression set
- 0.5 mil film provides tack-free surface
- Tacky side allows for ease of handling and placement

BERGQUIST GAP PAD TGP 2202SF is a high performance, 2.0 W/m-K, thermally conductive gap filling material. The BERGQUIST GAP PAD TGP 2202SF compound is silicone-free by design and offers exceptionally low interfacial resistances to adjacent surfaces.

BERGQUIST GAP PAD TGP 2202SF is specifically designed for silicone-sensitive applications. The material's construction features a 0.5 mil PET film on one side and natural tack on the other. The natural tack eliminates the need for an additional adhesive layer.

## TYPICAL APPLICATIONS

- Hard drives
- Optical applications
- Set top boxes

## TYPICAL PROPERTIES OF CURED MATERIAL

### Physical Properties

|                                             |     |
|---------------------------------------------|-----|
| Hardness, Shore 00                          | 70  |
| , Thirty second delay value @ 250 mil, 23°C |     |
| , ASTM D2240, Bulk rubber                   |     |
| Density, ASTM D792, g/cc                    | 2.8 |
| Flammability, UL 94                         | V-0 |

## Electrical Properties

|                                          |                    |
|------------------------------------------|--------------------|
| Dielectric Constant, ASTM D150, 1,000Hz  | 6.0                |
| Volume Resistivity, ASTM D257, ohm-meter | $1 \times 10^{11}$ |

## Thermal Properties

|                                           |     |
|-------------------------------------------|-----|
| Thermal Conductivity, ASTM D5470, W/(m-K) | 2.0 |
|-------------------------------------------|-----|

The ASTM D5470 text fixture was used. The recorded value includes interfacial thermal resistance. These values are given to the customer 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 GAP PAD TGP 2202SF is available in the following configurations:

- Sheet form
- We produce thousands of specials. Tooling charges vary depending on tolerances and complexity of the part.
- 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 ( $\pm 3$ ), 50% RH ( $\pm 10$ ) 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**

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

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