



# BERGQUIST GAP PAD TGP 2101SF

Known as BERGQUIST GAP PAD 2101SF  
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## PRODUCT DESCRIPTION

Thermally Conductive, Silicone-Free Gap Filling Material.

<b>Technology</b>	Silicone free
<b>Appearance</b>	Green
<b>Reinforcement Carrier</b>	Polyester
<b>Thickness, ASTM D374</b>	0.254 to 3.175mm
<b>Inherent Surface Tack</b>	1 (1 or 2 sided)
<b>Application</b>	Thermal management, TIM (Thermal Interface Material)
<b>Operating Temperature Range</b>	-60 to 125°C

## FEATURES AND BENEFITS

- Thermal Conductivity: 2.0 W/m-K
- No silicone outgassing
- No silicone extraction
- Tack on one side for easy handling
- Halogen-Free

BERGQUIST GAP PAD TGP 2101SF is a silicone-free, high performance, thermally conductive gap filling material. The material offers high thermal performance (2.0 W/mK) and is designed for silicone-sensitive applications.

BERGQUIST GAP PAD TGP 2101SF is reinforced for easy material handling and added durability during assembly. BERGQUIST GAP PAD TGP 2101SF offers exceptionally low interfacial resistances to adjacent surfaces and is constructed using a 1 mil polyester film on one side and natural tack on the other. The 1 mil polyester film provides a tack-free surface that can be utilized to slide the pad or component into position during assembly.

## TYPICAL APPLICATIONS

- Automotive brushed motors
- Optical applications
- Set top boxes
- Hard drives
- Relays or other electrical components with open contacts

## TYPICAL PROPERTIES OF CURED MATERIAL

Young's modulus is calculated using 0.01 in/min, step rate of strain with a sample size 0.89 inch<sup>2</sup>.

## Physical Properties

Hardness, Shore 00, 30 second delay value @ 250 mil, ASTM D2240, Bulk rubber	70
Heat Capacity, ASTM C351, J/g-K	1.0
Density, ASTM D792, g/cc	2.8
Flammability, UL 94	V-0
Young's Modulus, ASTM D575	kPa 228 (psi) (33)

## Electrical Properties

Dielectric Breakdown Voltage, ASTM D149, VAC	>5,000
Dielectric Constant, ASTM D150, 1,000Hz	6.0
Volume Resistivity, ASTM D257, ohm-meter	1×10 <sup>8</sup>

## Thermal Properties

Thermal Conductivity, ASTM D5470, W/(m-K)	2.0
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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 2101SF is available in the following configurations:

- Die-cut parts are available in any shape or size, separated or in sheet form
- 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



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### Conversions

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

Reference 3

### 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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