



BERGQUIST GAP PAD TGP 2200SF

Known as BERGQUIST GAP PAD 2200SF

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PRODUCT DESCRIPTION

Thermally Conductive, Silicone-Free Gap Filling Material.

Technology	Silicone free
Appearance	Green
Reinforcement Carrier	Fiberglass
Thickness, ASTM D374	0.254 to 3.175mm , ASTM D374
Inherent Surface Tack	2 (2 sides)
Application	Thermal management, TIM (Thermal Interface Material)
Operating Temperature Range	-60 to 125°C

FEATURES AND BENEFITS

- Thermal Conductivity: 2.0 W/m-K
- Silicone-free formulation
- Medium compliance with easy handling
- Electrically isolating

BERGQUIST GAP PAD TGP 2200SF is a thermally conductive, electrically isolating, silicone-free polymer specially designed for silicone-sensitive applications. The material is ideal for applications with uneven topologies and high stackup tolerances.

BERGQUIST GAP PAD TGP 2200SF is reinforced for easy material handling and added durability during assembly. The material is available with a protective liner on both sides. BERGQUIST GAP PAD TGP 2200SF is supplied with reduced tack on one side allowing for burn-in processes and easy rework.

TYPICAL APPLICATIONS

- Digital disk drives
- Proximity near electrical contacts (e.g. DC brush motors, connectors, relays)
- Fiber optics modules

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 inch².

Physical Properties

Hardness, Shore 00, Thirty second delay value, ASTM D2240, Bulk rubber	70
Heat Capacity, ASTM E1269, 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 ⁸

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 2200SF is available in the following configurations:

Sheet form	
Die-Cut parts	
Sheet size	8" x 16"

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:**

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Reference 3

Mouser Electronics

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