

BERGQUIST GAP PAD TGP 1500R

Known as BERGQUIST GAP PAD 1500R
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PRODUCT DESCRIPTION

Thermally Conductive, Reinforced Gap Filling Material.

Technology	Silicone
Appearance	Black
Reinforcement Carrier	Fiberglass
Thickness	0.254 to 0.508mm , ASTM D374
Inherent Surface Tack	2 (1 sided)
Application	Thermal management, TIM (Thermal Interface Material)
Operating Temperature Range	-60 to 200°C

FEATURES AND BENEFITS

- Thermal Conductivity: 1.5 W/m-K
- Fiberglass reinforced for puncture, shear and tear resistance
- Easy release construction
- Electrically isolating

BERGQUIST GAP PAD TGP 1500R has the same highly conformable, low-modulus polymer as the standard GAP PAD TGP 1500. The fiberglass reinforcement allows for easy material handling and enhances puncture, shear and tear resistance.

The natural tack on both sides of the material allows for good compliance to mating surfaces of components, further reducing thermal resistance.

TYPICAL APPLICATIONS

- Telecommunications
- Computer and peripherals
- Power conversion
- RDRAM™ memory modules / chip scale packages
- Areas where heat needs to be transferred to a frame chassis or other type of heat spreader

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	40
, Thirty second delay value	
, ASTM D2240, Bulk rubber	
Heat Capacity, ASTM E1269, J/g-K	1.3
Density, Bulk rubber, ASTM D792, g/cc	2.1
Flammability, UL 94	V-0
Young's Modulus, ASTM D575	kPa 310 (psi) (45)

Electrical Properties

Dielectric Breakdown Voltage , ASTM D149, VAC	>6,000
Dielectric Constant, ASTM D150, 1,000Hz	6.0
Volume Resistivity, ASTM D257, ohm-meter	1×10 ¹¹

Thermal Properties

Thermal Conductivity, ASTM D5470, W/(m-K)	1.5
Thermal Impedance, 0.020 inch ASTM D5470, °C-in ² /W:	
10% Deflection	1.07
20% Deflection	0.88
30% Deflection	0.82

The recorded value includes interfacial thermal resistance. These values are provided 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 1500R is available in the following configurations:

- Sheet form
- Die-Cut parts
- Roll form

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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