



# **BERGQUIST GAP PAD TGP 1500R**

Known as BERGQUIST GAP PAD 1500R October 2018

## 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	-60 to 200°C
Range	

## **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 inch<sup>2</sup>.

	40
	1.3
	2.1
	V-0
kPa	310
(psi)	(45)
	•

## Electrical Properties

Discontinued Description

Dielectric Breakdown Voltage , ASTM D149, VAC Dielectric Constant, ASTM D150, 1,000Hz Volume Resistivity, ASTM D257, ohm-meter	>6,000 6.0 1×10 <sup>11</sup>
Thermal Properties	
Thermal Conductivity, ASTM D5470, W/(m-K)	1.5
Thermal Impedance, 0.020 inch	
ASTM D5470, °C-in²/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

(°C x 1.8) + 32 = °F kV/mm x 25.4 = V/mil mm / 25.4 = inches N x 0.225 = lb N/mm x 5.71 = lb/in psi x 145 = N/mm² MPa = N/mm² N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = cP

## 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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Reference 1

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