



## **BERGQUIST GAP PAD TGP 12000ULM**

June 2022

#### PRODUCT DESCRIPTION

A 12 W/m-K, extremely soft Gap Pad with exceptional thermal performance at low pressures.

Technology	Silicone
Appearance	Gray or Red
	Thermal management,
	TIM (Thermal Interface Material)
<b>Operating Temperature</b>	-60 to 200°C
Range, Continuous or	
others	
UL Flammability Rating	UL 94 V-0

#### **FEATURES AND BENEFITS**

- Thermal Conductivity: 12 W/m-K
- High-compliance, low compression stress
- Ultra low modulus

BERGQUIST GAP PAD TGP 12000ULM is an extremely soft gap filling material rated at a thermal conductivity of 12.0 W/m-K. It is specially formulated for high performance applications requiring low assembly stress. The material offers exceptional thermal performance at low pressures due to the unique filler package and ultra low modulus resin formulation.

BERGQUIST GAP PAD TGP 12000ULM is highly conformal to rough or irregular surfaces, allowing excellent wet-out at the interface. Protective liners are supplied on both sides allowing for ease of use. The material is available in either gray or red color to meet customer requirements.

#### **TYPICAL APPLICATIONS**

- Telecommunications (routers, switches, base stations)
- Optical transceivers
- ASICs and DSPs

### TYPICAL PROPERTIES OF CURED MATERIAL

#### **Physical Properties**

Hardness, Shore 000, ASTM D2240		68
Inherent Surface Tack		2
Density, ASTM D792, g/cc		3.1
Heat Capacity, ASTM E1269, J/g-K		0.7
Shelf life, days		180
Young's Modulus	кРа	103
(	(psi)	(15)

#### **Electrical Properties**

Volume Resistivity, ASTM D257, ohm-meter
Dielectric Constant, ASTM D150, 1,000Hz
Dielectric Breakdown Voltage:
0.04 inch sample, VAC

1.5×10¹²
8.4
6.200

#### **Thermal Properties**

Thermal Conductivity, ASTM D5470, W/(m-K) 12

#### **GENERAL INFORMATION**

For safe handling information on this product, consult the Safety Data Sheet, (SDS).

#### **CONFIGURATIONS AVAILABLE**

BERGQUIST GAP PAD TGP 12000ULM is available in the following configurations:

Sheet size	8" x 8"			
Standard	0.040, 0.060, 0.080, 0.100, 0.125			
Thicknesses	0.157 inch			
	(1.0, 1.5, 2.0, 2.5, 3.18, 4.0 mm)			

#### **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 180 days 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/F N/mm x 5.71 = lb/in N/mm² x 145 = psi N/mm² = MPa N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = cP

#### Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local Henkel representative for assistance and recommendations on the specifications of this product.

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Reference 3

TDS BERGQUIST GAP PAD TGP 12000ULM,	June 2022