

BERGQUIST® GAP PAD TGP 7000ULM BLU

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PRODUCT DESCRIPTION

BERGQUIST[®] GAP PAD TGP 7000ULM BLU is a highly conformable Gap Pad with exceptional thermal performance.

Technology	Silicone
Appearance	Blue
Reinforcement carrier	No
Application	Thermal management, TIM (Thermal Interface Material)
Operating temperature range	-40°C - 200°C
Specific benefits	 Optimal heat transfer High thermal conductivity: 7.5 W/m-K Ultra low modulus
UL flammability rating	UL 94-V0

Features and benefits

- Thermal conductivity: 7.5 W/m-K
- · High-compliance, low compression stress
- Ultra low modulus
- · No mobile polymer bleeds

BERGQUIST[®] GAP PAD TGP 7000ULM BLU is a gap filling material rated at a thermal conductivity of 7.5 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.

 $\mathsf{BERGQUIST}^{\textcircled{R}}$ GAP PAD TGP 7000ULM BLU 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.

Typical applications

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

TYPICAL PROPERTIES

Physical properties

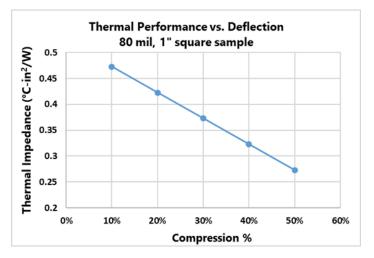
Hardness, Shore 000, ASTM D2240	70
Inherent surface tack	2
Density, ASTM D792, g/cc	3.2
Heat capacity, ASTM E1269, j/g-K	0.8
Shelf life, days	180
Young's modulus, (psi)	36

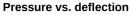
Electrical properties

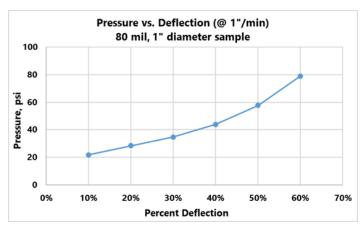
Volume resistivity, ASTM D257, ohm-meter	2×10 ¹⁰			
Dielectric constant, ASTM D150, 1,000Hz	7.4			
Dielectric strength, VAC KV/mil	412			
Thermal properties				

Thermal conductivity, ASTM D5470, W/m-K 7.5

Thermal performance vs. deflection









GENERAL INFORMATION

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

CONFIGURATIONS AVAILABLE

BERGQUIST[®] GAP PAD TGP 7000ULM BLU is available in the following configurations, custom part sizes available upon request:

Sheet size	8" x 8" **
Standard thicknesses	20, 40, 60, 80, 100, 125 mil

Storage:

Store product in an unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: 5 to 28°C, 50% RH (±10) for a 180 days shelf life in sealed containers with moisture barrier packaging.

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel 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 Henkel representative.

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 the specifications of this product.

Approval and certificate

Please contact Henkel representative for related approval or certificate of this product

Data ranges

The data contained herein may be reported as a typical value. Values are based on actual test data and are verified on a periodic basis.

Temperature/Humidity Ranges: 23°C / 50% RH = 23 \pm 2°C / 50 \pm 5% RH

Conversions

 $(^{\circ}C \times 1.8) + 32 = ^{\circ}F$ kV/mm x 25.4 = V/mil mm / 25.4 = inches μ m / 25.4 = mil N x 0.225 = lb N/mm x 5.71 = lb/in N/mm² x 145 = psi MPa x 145 = psi N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = cP

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