Technical Data Sheet

BERGQUIST GAP PAD TGP 12000

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PRODUCT DESCRIPTION

BERGQUIST GAP PAD TGP 12000 provides the following product characteristics:

Technology	Silicone
Appearance	Red
Product Benefits	• Thermal conductivity: 12 W/mK • Low compression stress
Operating Temperature Range	-60 to 200ºC
Application	Thermal management, TIM (Thermal Interface Material)
Typical Applications	• Telecommunications (routers, switches, base stations) • Optical transceivers • ASICs and DSPs

BERGQUIST GAP PAD TGP 12000 is a soft gap filling material rated at a thermal conductivity of 12 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 . The material offers exceptional thermal performance at low pressures.

BERGQUIST GAP PAD TGP 12000 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 PROPERTIES OF CURED MATERIAL

Physical Properties

Hardness, Shore 000, ASTM D2240		76
Inherent Surface Tack		2
Density, ASTM D792, g/cc		3.1
Heat Capacity, ASTM E1269, J/g-K		0.7
Shelf life, days		365
Young's Modulus	kPa (psi)	593 (86)

Electrical Properties

Volume Resistivity, ASTM D257, ohm-meter	10×10^{10}
Dielectric Constant, ASTM D150, 1,000Hz	7.0
Dielectric Breakdown Voltage:	
40 mil sample, VAC	17,700

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 12000 is available in the following configurations:

Sheet size	8.5" x 8.5"
Standard Thicknesses	0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0 mm (0.02, 0.04, 0.06, 0.07, 0.1, 0.118, 0.14, 0.16 inches)

STORAGE

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

Optimal Storage: 5 to 28ºC, 10 to 50% RH for 365 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
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

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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