TECHNICAL DATASHEET:
BERGQUIST GAP PAD TGP 2200SF

Known as BERGQUIST GAP PAD 2200SF

PRODUCT DESCRIPTION

Thermally conductive, silicone-free gap filling material. BERGQUIST GAP PAD TGP 2200SF is a thermally conductive, electrically isolating, silicone-free polymer specially designed for silicone-sensitive applications. The material is ideal for applications with uneven topologies and high stack-up tolerances. It is fiberglass-reinforced for easy material handling and added durability during assembly, and is available with a protective liner on both sides. TGP 2200SF is supplied with reduced tack on one side, allowing for burn-in processes and easy rework.

TYPICAL APPLICATIONS

- Digital disk drives
- Proximity near electrical contacts (DC brush motors, connectors, relays)
- Fiber optics modules

PRODUCT FEATURES & BENEFITS

- Thermal conductivity: 2.0 W/m·K
- Silicone-free formulation
- Medium compliance with easy handling
- Electrically isolating
- Fiberglass reinforced for handling and durability
- Reduced tack on one side for burn-in processes and easy rework

PRODUCT SPECIFICATIONS

Technology	Silicone free
Appearance	Green
Reinforcement Carrier	Fiberglass
Thickness (ASTM D374)	0.254 to 3.175 mm
Inherent Surface Tack	2 (2 sides; reduced tack on one side)
Application	Thermal Management / TIM (Thermal Interface Material)
Operating Temperature Range	-60 to 125°C
Configurations Available	Sheet form (8" x 16"); Die-cut parts
Shelf Life (Optimal Storage)	12 months at 25°C (±3), 50% RH (±10)

Specifications are believed to be accurate at the time of publication and are subject to change without notice. It is the responsibility of the end-user to test and determine suitability of this material for a particular application. H-O will provide samples for this purpose at no charge. **REV. 0**

TYPICAL PROPERTIES OF CURED MATERIAL

Young's modulus is calculated using a 0.01 in/min step rate of strain with a sample size of 0.79 in².

TECHNICAL DATA	VALUE	UNIT	TEST METHOD / STANDARD
Physical Properties			
Hardness, Shore 00 (30-sec delay, bulk rubber)	70	—	ASTM D2240
Heat Capacity	1.0	J/g·K	ASTM E1269
Density	2.8	g/cc	ASTM D792
Flammability	V-0	—	UL 94
Young's Modulus	228 (33)	kPa (psi)	ASTM D575
Electrical Properties			
Dielectric Breakdown Voltage	>5,000	VAC	ASTM D149
Dielectric Constant @ 1,000 Hz	6.0	—	ASTM D150
Volume Resistivity	1×10^{8}	ohm·meter	ASTM D257
Thermal Properties			
Thermal Conductivity	2.0	W/(m·K)	ASTM D5470

STORAGE

Store product in the unopened container in a dry location. Optimal storage: 25°C (±3), 50% RH (±10) for a 12-month shelf life. Material removed from containers may be contaminated during use; do not return product to the original container.

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