

Sil-Pad™ 1100ST

High Thermal Performance with inherent Soft Tack, Electrical Insulator

Features and Benefits

- Inherent Tack on both sides
- Pad is Re-Positionable
- Excellent Thermal Performance
- Electrically Isolating
- Auto-Placement
- Auto-Dispensable

Bergquist Sil-Pad 1100ST is a fiberglass reinforced thermal interface material that has an inherent tack on both sides. The material exhibits excellent thermal performance when compared to the competitors' thermal interface materials. The material is supplied on two liners for exceptional auto-dispensing and auto-placement in high volume assemblies. The material is designed for placement between a electronic power device and its heat sink.

Typical Applications Include

- Power supplies
- Automotive electronics
- Motor controls

Typical Properties

Physical Property	Typical Value		Test Method		
	Imperial	Metric			
Color	Yellow	Yellow	Visual		
Thickness	0.012"	0.30 mm	ASTM D374		
Fiberglass Thickness	0.0015"	0.04 mm	ASTM D374		
Continuous Use Temperature	-76 to 356 °F	-60 to 180 °C	---		
Electrical					
Breakdown Voltage (Vac)	6000 volts	6000 volts	ASTM D149		
Dielectric Constant (1000 Hz)	6.0	6.0	ASTM D150		
Volume Resistivity (Ohm-meter)	10 ¹¹	10 ¹¹	ASTM D257		
Flame Rating	94 V-O	94 V-O	U.L. Pending		
Thermal					
Thermal Conductivity W/m-K (1)	1.3	1.3	ASTM D5470		
Thermal Impedance vs. Pressure					
Pressure (psi)	10	25	50	100	200
TO-220 Thermal Performance °C/W	3.08	3.05	2.97	2.68	2.34
Thermal Impedance, °C-in ² /W	0.79	0.69	0.57	0.53	0.50

- 1). This is the measured thermal conductivity of the Sil-Pad compound.
- 2). The ASTM D5470 (Bergquist Modified) test fixture was used. The recorded value includes interfacial thermal resistance. These values are given to the customer for reference only. Actual application performance is directly related to the surface roughness, flatness and pressure applied.

Configurations

Available:

- Slit to width, Roll Form
- Die-Cut parts

We produce thousands of specials. Tooling charges vary depending on tolerances and complexity of the part.

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