# Sil-Pad® 1500ST

#### Bectrically Insulating Thermally Conductive, Soft Tack Bastomeric Material

#### **Features and Benefits**

- Thermal impedance: 0.23°C-in²/W (@50 psi)
- · Naturally tacky on both sides
- Pad is repositionable
- Excellent thermal performance
- · Auto-placement and dispensable



Bergquist SI-Pad 1500ST (Soft Tack) is a fiberglass reinforced thermal interface material that is naturally tacky on both sides SI-Pad 1500ST exhibits superior thermal performance when compared to the competitors' thermal interface materials SI-Pad 1500ST is supplied in sheet or roll form for exceptional auto-dispensing and auto-placement in high volume assemblies SI-Pad 1500ST is intended for placement between an electronic power device and its heat sink.

TYPICAL PROPERTIES OF SIL-PAD 1500ST						
PROPERTY	IMPERIALVALUE		METRIC VALUE		TEST METHOD	
Color	Blue		Blue		Visual	
Reinforcement Carrier	Fiberglass		Fiberglass		_	
Thickness (inch) / (mm)	800.0		0.203		ASTM D374	
Hardness (Shore 00)	75		75		ASTM D2240	
Breaking Strength (lbs/inch) / (kN/m)	1.9		0.34		ASTM D1458	
Hongation (% - 45° to Warp and Fill)	22		22		ASTM D412	
Tensile Strength (psi) / (MPa)	238		1.6		ASTM D412	
Continuous Use Temp ( $\mathfrak{P}$ ) / ( $\mathfrak{C}$ )	-76 to 356		-60 to 180		_	
ELECTRICAL						
Dielectric Breakdown Voltage (Vac)	3000		3000		ASTM D149	
Dielectric Constant (1000 Hz)	6.1		6.1		ASTM D150	
Volume Resistivity (Ohm-meter)	<b>10</b> <sup>11</sup>		<b>10</b> <sup>11</sup>		ASTM D257	
Hame Rating	V-O		V-O		U.L. 94	
THERMAL						
Thermal Conductivity (W/m-K)	1.8		1.8		ASTM D5470	
THERMAL PERFORMANCE vs PRESSURE						
Press	sure (psi)	10	25	50	100	200
TO-220 Thermal Performance (°C/W)		1.54	1.52	1.51	1.49	1.46
Thermal Impedance (°C-in²/W) (1)		0.37	0.28	0.23	0.21	0.20
1) The ASTM D5470 test fixture uses used The recorded value industrial thermal resistance Theory values are provided for						

The ASTM D5470 test fixture was used. The recorded value includes interfacial thermal resistance. These values are provided for reference only. Actual application performance is directly related to the surface roughness, flatness and pressure applied.

#### **Typical Applications Include:**

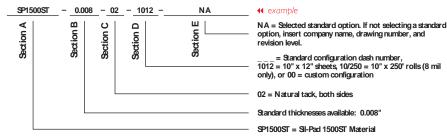
- · Power supplies
- · Automotive electronics
- Motor controls

## **Configurations Available:**

· Sheet form, die-cut parts and slit-to-width roll form

### **Building a Part Number**

### **Standard Options**



Note: To build a part number, visit our website at www.bergquistcompany.com.

SI-Pad®: U.S. Patents 4,574,879; 4,602,125; 4,602,678; 4,685,987; 4,842,911 and others