

Sil-Pad® 1500ST

January 2015

PRODUCT DESCRIPTION

Electrically Insulating, Thermally Conductive, Soft Tack Elastomeric 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



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

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

PROPERTY	ERTIES OF SI		METRIC VALUE		TEST METHOD	
Color	Blue		Blue		Visual	
Reinforcement Carrier	Fiberglass		Fiberglass		Visual	
	0.008		0.203		ASTM D374	
Thickness (inch) / (mm)						
Hardness (Shore 00)	75		75		ASTM D2240	
Breaking Strength (lbs/inch) / (kN/m)	1.9		0.34		ASTM D1458	
Elongation (% at 45° to Warp and Fill)	22		22		ASTM D412	
Tensile Strength (psi) / (MPa)	238		1.6		ASTM D412	
Continuous Use Temp (°F) / (°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 DI50	
Volume Resistivity (Ohm-meter)	10"		1011		ASTM D257	
Flame Rating	V-O		V-O		U.L. 94	
THERMAL						
Thermal Conductivity (W/m-K)	1.8		1.8		ASTM D5470	
THERMAL PERFORMANCE vs PRESS	URE					
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 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



Disclaimer

Note:

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Reference 0.1