Sil-Pad® A1500

Features and Benefits

- Thermal impedance: 0.42°C-in²/W (@50 psi)
- Elastomeric compound coated on both sides



Bergquist Sil-Pad A1500 is a silicone-based, thermally conductive and electrically insulating material. It consists of a cured silicone elastomeric compound coated on both sides of a fiberglass reinforcement layer.

Sil-Pad A1500 performs well under clamping pressure up to 200 psi and is an excellent choice for high performance applications requiring electrical isolation and cut-through resistance.

Electrically Insulating, Thermally Conductive Elastomeric Material

TYPICAL PROPERTIES OF SIL-PAD A1500						
PROPERTY	IMPERIAL VAL	.UE ME	METRIC VALUE		TEST METHOD	
Color	Green		Green		Visual	
Reinforcement Carrier	Fiberglass		Fiberglass			
Thickness (inch) / (mm)	0.010		0.254		ASTM D374	
Hardness (Shore A)	80		80		ASTM D2240	
Breaking Strength (lbs/inch) / (kN/m)	65		12		ASTM D1458	
Elongation (% - 45° to Warp and Fill)	40		40		ASTM D412	
Continuous Use Temp (°F) / (°C)	-76 to 356		-60 to 180		—	
ELECTRICAL						
Dielectric Breakdown Voltage (Vac)	6000		6000		ASTM D149	
Dielectric Constant (1000 Hz)	7.0		7.0		ASTM D150	
Volume Resistivity (Ohm-meter)	1011		10 ¹¹		ASTM D257	
Flame Rating	V-O		V-O		U.L. 94	
THERMAL						
Thermal Conductivity (W/m-K)	2.0		2.0		ASTM D5470	
THERMAL PERFORMANCE vs PRESSURE						
Press	sure (psi) 1	0 2	5	50	100	200
TO-220 Thermal Performance (°C/W))3 2.6	62 2	2.21	1.92	1.78
Thermal Impedance (°C-in²/W) (1)		59 0.5	50 C).42	0.34	0.31
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.

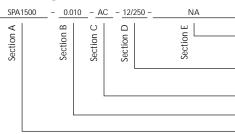
Typical Applications Include:

- Power supplies
- Automotive electronics
- Motor controls
- Power semiconductors

Configurations Available:

- Sheet form, die-cut parts, and roll form
- With or without pressure sensitive adhesive

Building a Part Number



Standard Options

NA = Selected standard option. If not selecting a standard option, insert company name, drawing number, and revision level.

____ = Standard configuration dash number, 1212 = 12" x 12" sheets, 12/250 = 12" x 250' rolls, or 00 = custom configuration

AC = Adhesive, one side

00 = No adhesive

Standard thicknesses available: 0.010"

SPA1500 = Sil-Pad A1500 Material

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

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



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