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 VALUE		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)	10 ¹¹		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)	10	25	50	100	200
TO-220 Thermal Performance (°C/W)		3.03	2.62	2.21	1.92	1.78
Thermal Impedance (°C-in²/W) (1)		0.59	0.50	0.42	0.34	0.31
1) The ASTM D5470 test fixture was used. The recorded value includes interfacial thermal resistance. These values are provided for						

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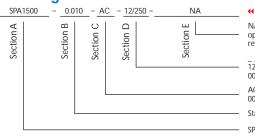
Typical Applications Include:

- 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

◀ example

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 adhesiveStandard 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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