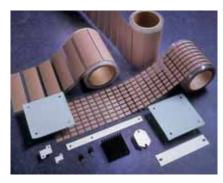
### Features and Benefits

- Thermal impedance: 0.32°C-in<sup>2</sup>/W (@50 psi)
- Optimal heat transfer
- High thermal conductivity: 3.0 W/m-K



Sil-Pad A2000 is a conformable elastomer with very high thermal conductivity that acts as a thermal interface between electrical components and heat sinks. Sil-Pad A2000 is for applications where optimal heat transfer is a requirement.

This thermally conductive silicone elastomer is formulated to maximize the thermal and dielectric performance of the filler/binder matrix. The result is a grease-free, conformable material capable of meeting or exceeding the thermal and electrical requirements of high reliability electronic packaging applications. Higher Performance, High Reliability Insulator

TYPICAL PROPERTIES OF SIL-PAD A2000						
PROPERTY	IMPERIAL VALUE		METRIC VALUE		TEST METHOD	
Color	White		White		Visual	
Reinforcement Carrier	Fiberglass		Fiberglass		—	
Thickness (inch) / (mm)	0.015 to 0.020		0.381 to 0.508		ASTM D374	
Hardness (Shore A)	90		90		ASTM D2240	
Heat Capacity (J/g-K)	1.0		1.0		ASTM E1269	
Continuous Use Temp (°F) / (°C)	-76 to 392		-60 to 200			
ELECTRICAL						
Dielectric Breakdown Voltage (Vac)	4000		4000		ASTM D149	
Dielectric Constant (1000 Hz)	7.0		7.0		ASTM D150	
Volume Resistivity (Ohm-meter)	1011		10 <sup>11</sup>		ASTM D257	
Flame Rating	V-O		V-O		U.L.94	
THERMAL						
Thermal Conductivity (W/m-K)	3.0		3.0		ASTM D5470	
THERMAL PERFORMANCE vs PRESSURE						
Press	sure (psi)	10	25	50	100	200
TO-220 Thermal Performance (°C/W) 0.015"		2.05	1.94	1.86	1.79	1.72
Thermal Impedance (°C-in²/W) 0.015" (1)		0.53	0.40	0.32	0.28	0.26
1) The ASTM D5470 test fixture was used. The recorded value includes interfacial thermal resistance. These values are provided for						

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

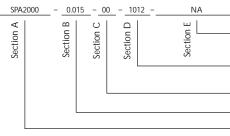
# **Typical Applications Include:**

- Motor drive controls
- Avionics
- High-voltage power supplies
- Power transistor / heat sink interface

#### **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, 1012 = 10" x 12" sheets, 10/250 = 10" x 250' rolls, or 00 = custom configuration

AC = Adhesive, one side00 = No adhesive

Standard thicknesses available: 0.015", 0.020"

SPA2000 = Sil-Pad A2000 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



 
 The Bergquist Company -North American Headquarters
 The Bergquist Company -European Headquarters

 18930 West 78th Street
 Bramenberg 9a, 3755 BT Eemnes

 Chanhassen, MM 55317
 Netherlands

 Phone: 800-347-4572
 Phone: 31-35-5380684

 Fax: 952-835-0430
 Fax: 31-35-5380295

#### www.bergquistcompany.com

The Bergquist Company - Asia Room 15, 8/F Wah Wai Industrial Centre No. 38-40, Au Pui Wan Street Fotan, Shatin, N.T. Hong Kong Ph: 852.2690.9296 Fax: 852.2690.2344 All statements, technical information and recommendations herein are based on tests we believe to be reliable, and THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MARKETABILITY AND FITNESS FOR PURPOSE. Sellers' and manufacturers' only obligation shall be to replace such quantity of the product proved to be defective. Before using user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection therewith. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAWAGE, DIRECT, INCIDENTAL, OR CONSEQUENTIAL, INCLUDING LOSS OF PROFITS OR REVENUE ARSING OUT OF THE USE OR THE INABILITY TO USE A PRODUCT. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer. PDS SP\_42000\_1208

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Authorized Distributor

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 SPA2000-0.015-00-97

 SPA2000-0.015-00-99
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 SPA2000-0.015-AC-95
 SPA2000-0.015-AC-96
 SPA2000-0.015-AC-97

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 SPA2000-0.015-AC-99
 SPA2000-0.020-AC-126-NA
 SPA2000-0.015-AC-62
 SPA2000-0.015-AC-95

 AC-53
 SPA2000-0.015-AC-98
 SPA2000-0.015-AC-99
 SPA2000-0.020-AC-126-NA
 SPA2000-0.015-AC-62
 SPA2000-0.015-AC-95