

Features and Benefits

- Thermal impedance:
0.38°C-in²/W (@50 psi)
- Optimal heat transfer
- High thermal conductivity: 3.5 W/m-K



Sil-Pad 2000 is a high performance, thermally conductive insulator designed for demanding aerospace and commercial applications.

Sil-Pad 2000 is a silicone elastomer 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.

TYPICAL PROPERTIES OF SIL-PAD 2000						
PROPERTY		IMPERIAL VALUE		METRIC VALUE		TEST METHOD
Color		White		White		Visual
Reinforcement Carrier		Fiberglass		Fiberglass		—
Thickness (inch) / (mm)		0.010 to 0.020		0.254 to 0.508		ASTM D374
Hardness (Shore A)		90		90		ASTM D2240
Continuous Use Temp (°F) / (°C)		-76 to 392		-60 to 200		—
ELECTRICAL						
Dielectric Breakdown Voltage (Vac)		4000		4000		ASTM D149
Dielectric Constant (1000 Hz)		4.0		4.0		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)		3.5		3.5		ASTM D5470
THERMAL PERFORMANCE vs PRESSURE						
Pressure (psi)		10	25	50	100	200
TO-220 Thermal Performance (°C/W)		2.61	2.32	2.02	1.65	1.37
Thermal Impedance (°C-in²/W) (I)		0.57	0.43	0.38	0.35	0.30
I) 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.						

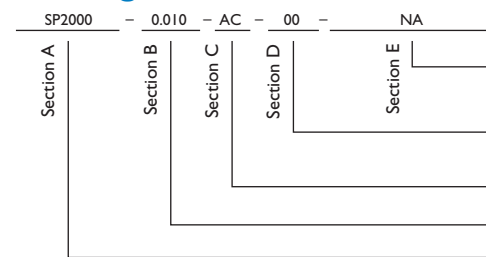
Typical Applications Include:

- Power supplies
- Power semiconductors
- Avionics
- Motor controls
- U.L. File Number E59150
- Aerospace

Configurations Available:

- Sheet form, die-cut parts
- 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, or 00 = custom configuration

AC = Adhesive, one side
00 = No adhesive

Standard thicknesses available: 0.010", 0.015", 0.020"

SP2000 = Sil-Pad 2000 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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