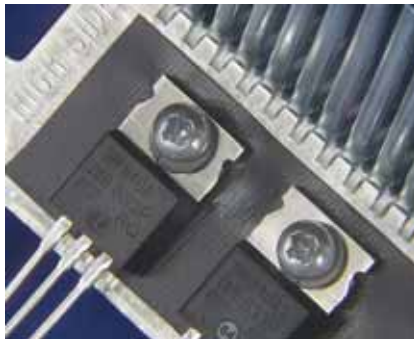


Exceptional Performance, Thermally Conductive Elastomeric Material

Features and Benefits

- Thermal Impedance: 0.53°C-in²/W (@ 50 psi)
- Exceptional thermal performance at lower application pressures
- Smooth and non-tacky on both sides for easy re-positioning, ease of use and assembly error reduction
- Superior breakdown voltage and surface "wet out" values
- Designed for applications where electrical isolation is critical
- Excellent cut-thru resistance, designed for screw and clip mounted applications



Sil-Pad 1200 is a silicone based, fiberglass-reinforced thermal interface material featuring a smooth, highly compliant surface. The material features a non-tacky surface for efficient re-positioning and ease of use, as well as an optional adhesive coating. Sil-Pad 1200 exhibits exceptional thermal performance at low and high application pressures. The material is ideal for placement between electronic power devices and a heatsink for screw and clip mounted applications.

TYPICAL PROPERTIES OF SIL-PAD 1200						
PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD			
Color	Black	Black	Visual			
Reinforcement Carrier	Fiberglass	Fiberglass	—			
Thickness (inch) / (mm)	0.009 to 0.016	0.229 to 0.406	ASTM D374			
Hardness Bulk Rubber (Shore 00)	80	80	ASTM D2240			
Elongation (% - 45° to warp and fill)	20	20	ASTM D412			
Tensile Strength (psi) / (MPa)	1300	9	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)	8.0	8.0	ASTM D150			
Volume Resistivity (Ohm-meter)	10 ⁹	10 ⁹	ASTM D257			
Flame Rating	V-O	V-O	U.L. 94			
THERMAL						
Thermal Conductivity (W/m-K) (1)	1.8	1.8	ASTM D5470			
THERMAL PERFORMANCE vs PRESSURE						
	Pressure (psi)	10	25	50	100	200
	TO-220 Thermal Performance (°C/W)	2.82	2.64	2.41	2.13	1.90
	Thermal Impedance (°C-in²/W) (2)	0.71	0.62	0.53	0.47	0.41

1) This is the measured thermal conductivity of the Sil-Pad Compound.
2) 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.

RoHS Compliant

Typical Applications Include:

- Automotive electronics control modules
- Motor controls
- Discrete devices
- Power supplies
- Audio amplifiers
- Telecommunications

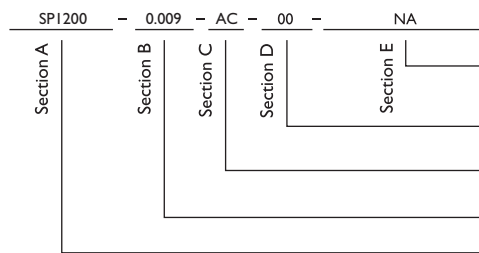
Configurations Available:

- Sheet form, slit-to-width roll form
- Adhesive coating
- 9, 12 and 16 mil thicknesses
- Die-cut parts

We produce thousands of specials and customs.

Tooling charges vary depending on tolerances and complexity of the part.

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: 0.009", 0.012", 0.016"
 SPI200 = Sil-Pad 1200 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



www.bergquistcompany.com

The Bergquist Company - North American Headquarters
18930 West 78th Street
Chanhassen, MN 55317
Phone: 800-347-4572
Fax: 952-835-0430

The Bergquist Company - European Headquarters
Bramenberg 9a, 3755 BT Eemnes
Netherlands
Phone: 31-35-5380684
Fax: 31-35-5380295

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 DAMAGE, DIRECT, INCIDENTAL OR CONSEQUENTIAL, INCLUDING LOSS OF PROFITS OR REVENUE ARISING 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.