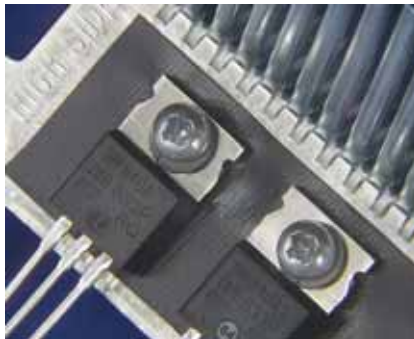


Exceptional Performance, Thermally Conductive Elastomeric Material

## 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      | —           |      |      |      |
| <b>ELECTRICAL</b>                      |                                   |                 |             |      |      |      |
| Dielectric Breakdown Voltage (Vac)     | 6000                              | 6000            | ASTM D149   |      |      |      |
| Dielectric Constant (1000 Hz)          | 8.0                               | 8.0             | ASTM D150   |      |      |      |
| Volume Resistivity (Ohm-meter)         | 10 <sup>9</sup>                   | 10 <sup>9</sup> | ASTM D257   |      |      |      |
| Flame Rating                           | V-O                               | V-O             | U.L. 94     |      |      |      |
| <b>THERMAL</b>                         |                                   |                 |             |      |      |      |
| Thermal Conductivity (W/m-K) (1)       | 1.8                               | 1.8             | ASTM D5470  |      |      |      |
| <b>THERMAL PERFORMANCE vs PRESSURE</b> |                                   |                 |             |      |      |      |
|  | 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

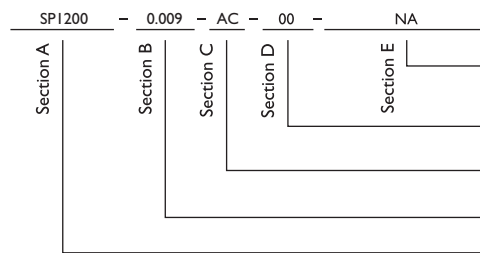
## Configurations Available:

- 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](http://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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