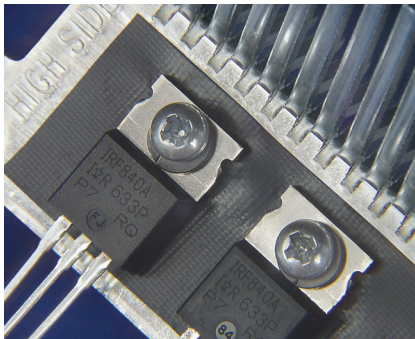


Exceptional Performance, Thermally Conductive Elastomeric Material

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 I200 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 I200 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 Applications

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

TYPICAL PROPERTIES OF SIL-PAD I200

PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD			
Color	Black	Black	Visual			
Reinforcement Carrier	Fiberglass	Fiberglass	—			
Thickness (inch) / (mm)	0.009	0.229	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 ¹⁰	10 ¹⁰	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

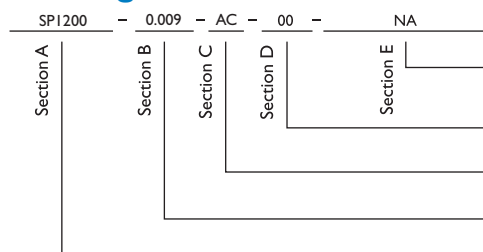
Configurations Available:

- Sheet form, slit-to-width roll form
- Die-cut parts
- 9, 12, 16 and 20 mil thicknesses
- Adhesive coating

We produce thousands of specials and customs.

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

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 adhesive

Standard thicknesses available: 0.009", 0.012", 0.016", 0.020"

SPI200 = Sil-Pad 1200 Material

Note: To build a part number, visit our website at www.bergquistcompany.com.

Sil-Pad®: U.S. Patent 4,574,879; 4,602,125; 4,602,678; 4,685,987; 4,842,911 and others



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