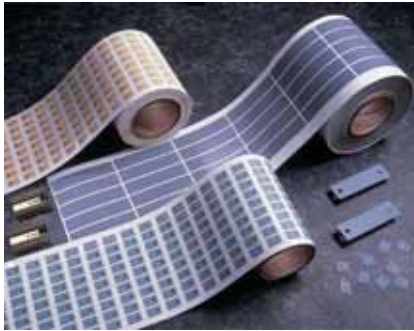


Features and Benefits

- Thermal impedance:
0.49°C-in²/W (@50 psi)
- Physically strong dielectric barrier against cut-through
- Medium performance film



Sil-Pad K-6 is a medium performance, film-based thermally conductive insulator. The film is coated with a silicone elastomer to deliver high performance and provide a continuous, physically strong dielectric barrier against "cut-through" and resultant assembly failures.

| TYPICAL PROPERTIES OF SIL-PAD K-6 | | | | | | |
|--|--|------------------|------|------------------|------|-------------|
| PROPERTY | | IMPERIAL VALUE | | METRIC VALUE | | TEST METHOD |
| Color | | Bluegreen | | Bluegreen | | Visual |
| Reinforcement Carrier | | Kapton | | Kapton | | — |
| Thickness (inch) / (mm) | | 0.006 | | 0.152 | | ASTM D374 |
| Hardness (Shore A) | | 90 | | 90 | | ASTM D2240 |
| Breaking Strength (lbs/inch) / (kN/m) | | 30 | | 5 | | ASTM D1458 |
| Elongation (%) | | 40 | | 40 | | ASTM D412 |
| Tensile Strength (psi) / (MPa) | | 5000 | | 34 | | 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) | | 4.0 | | 4.0 | | ASTM D150 |
| Volume Resistivity (Ohm-meter) | | 10 ¹² | | 10 ¹² | | ASTM D257 |
| Flame Rating | | VTM-O | | VTM-O | | U.L.94 |
| THERMAL | | | | | | |
| Thermal Conductivity (W/m-K) | | 1.1 | | 1.1 | | ASTM D5470 |
| THERMAL PERFORMANCE vs PRESSURE | | | | | | |
| Pressure (psi) | | 10 | 25 | 50 | 100 | 200 |
| TO-220 Thermal Performance (°C/W) | | 3.24 | 3.03 | 2.76 | 2.45 | 2.24 |
| Thermal Impedance (°C-in²/W) (1) | | 0.82 | 0.62 | 0.49 | 0.41 | 0.36 |
| 1) 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. | | | | | | |

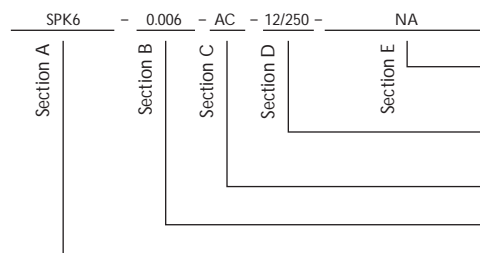
Typical Applications Include:

- Power supplies
- Motor controls
- Power semiconductors

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,
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: 0.006"

SPK6 = Sil-Pad K6 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

Kapton® is a registered trademark of DuPont.



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