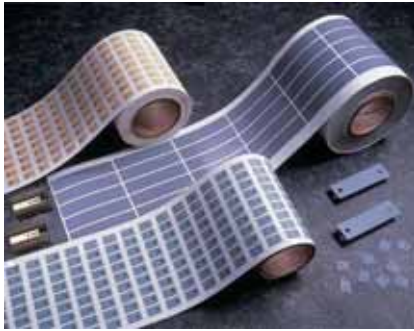


### Features and Benefits

- Thermal impedance: 0.48°C-in<sup>2</sup>/W (@50 psi)
- Withstands high voltages
- High dielectric strength
- Very durable



Sil-Pad K-4 uses a specially developed film which has high thermal conductivity, high dielectric strength and is very durable. Sil-Pad K-4 combines the thermal transfer properties of well-known Sil-Pad rubber with the physical properties of a film.

Sil-Pad K-4 is a durable insulator that withstands high voltages and requires no thermal grease to transfer heat. Sil-Pad K-4 is available in customized shapes and sizes.

TYPICAL PROPERTIES OF SIL-PAD K-4					
PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD		
Color	Gray	Gray	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	—		
<b>ELECTRICAL</b>					
Dielectric Breakdown Voltage (Vac)	6000	6000	ASTM D149		
Dielectric Constant (1000 Hz)	5.0	5.0	ASTM D150		
Volume Resistivity (Ohm-meter)	10 <sup>12</sup>	10 <sup>12</sup>	ASTM D257		
Flame Rating	VTM-O	VTM-O	U.L.94		
<b>THERMAL</b>					
Thermal Conductivity (W/m-K)	0.9	0.9	ASTM D5470		
<b>THERMAL PERFORMANCE vs PRESSURE</b>					
	Pressure (psi)				
	10	25	50	100	200
TO-220 Thermal Performance (°C/W)	3.66	3.43	3.13	2.74	2.42
Thermal Impedance (°C-in <sup>2</sup> /W) (1)	1.07	0.68	0.48	0.42	0.38
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.					

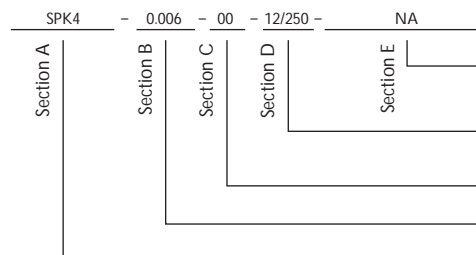
### Typical Applications Include:

- Power supplies
- Power semiconductors
- Motor controls

### Configurations Available:

- Sheet form, die-cut parts and roll form
- With or without pressure sensitive adhesive

### 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: 0.006"

SPK4 = Sil-Pad K4 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.  
Kapton® is a registered trademark of DuPont.



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