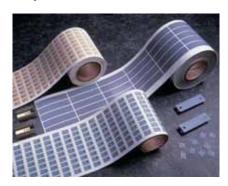
Sil-Pad® K-4

The Original Kapton®-Based Insulator

Features and Benefits

- Thermal impedance: 0.48°C-in²/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		_	
ELECTRICAL						
Dielectric Breakdown Voltage (Vac)	6000		6000		ASTM D149	
Dielectric Constant (1000 Hz)	5.0		5.0		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)	0.9		0.9		ASTM D5470	
THERMAL PERFORMANCE vs PRESSURE						
Press	sure (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-in²/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

Motor controls

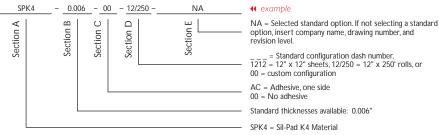
• Power semiconductors

Configurations Available:

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

Building a Part Number

Standard Options



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

Sil-Pad $^{\circ}$: U.S. Patents 4,574,879; 4,602,125; 4,602,678; 4,685,987; 4,842,911 and others. Kapton $^{\circ}$ is a registered trademark of DuPont.