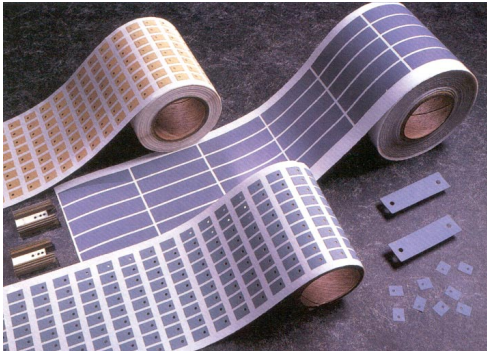


Features and Benefits

- 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.

MIL SPEC. MIL-M-38527/8A
MIL-M-38527C
MIL-I-49456
MIL-M-87111
UL FILE NUMBER E59150
FSCM NUMBER 55285

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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, (%45° to Warp & Fill)		40		40		ASTM D412
Tensile Strength, (psi) / (Mpa)		5000		34		ASTM D412
Continuous Use Temp., (°F) / (°C)		-76 to 356		-60 to 180		***
Electrical		Imperial Value		Metric Value		Test Method
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.
Thermal		Imperial Value		Metric Value		Test Method
Thermal Conductivity, (W/m-K)		0.9		0.9		ASTM D5470
Thermal Impedance vs. Pressure						
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 ² /W) (I)		1.07	0.68	0.48	0.42	0.38
I). The ASTM D5470 (Bergquist Modified) test fixture was used. The recorded value includes interfacial thermal resistance. These values are given to the customer 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
- Roll form
- With or without pressure sensitive adhesive

We produce thousands of specials. Tooling charges vary depending on tolerances and complexity of the part.

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.

Product Data Sheet / PDS-0602-001-01; Rev 01