

Features and Benefits

- Thermal impedance: 0.95°C-in²/W (@50 psi)
- Polyester based
- For applications requiring non-silicone conformal coatings
- Designed for silicone-sensitive applications
- Excellent dielectric and physical strength



Poly-Pad K-4 is a composite of film coated with a polyester resin. The material is an economical insulator and the film carrier provides excellent dielectric and physical strength.

Polyester-based, thermally conductive insulators from Bergquist provide a complete family of materials for silicone-sensitive applications. Poly-Pads are ideally suited for applications requiring conformal coatings or applications where silicone contamination is a concern (telecomm and certain aerospace applications). Poly-Pads are constructed with ceramic-filled polyester resins coating either side of a fiber-glass carrier or a film carrier. The Poly-Pad family offers a complete range of performance characteristics to match individual applications.

TYPICAL PROPERTIES OF POLY-PAD K-4						
PROPERTY		IMPERIAL VALUE		METRIC VALUE		TEST METHOD
Color		Tan		Tan		Visual
Reinforcement Carrier		Polyimide		Polyimide		—
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)		-4 to 302		-20 to 150		—
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		V-O		V-O		UL94
THERMAL						
Thermal Conductivity (W/m-K)		0.9		0.9		ASTM D5470
THERMAL PERFORMANCE vs PRESSURE						
Pressure (psi)		10	25	50	100	200
TO-220 Thermal Performance (°C/W)		5.64	5.04	4.34	3.69	3.12
Thermal Impedance (°C-in²/W) (1)		1.55	1.21	0.95	0.70	0.46
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.						

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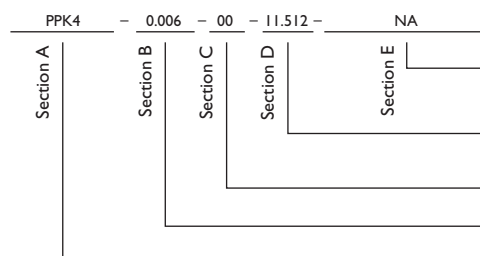
Typical Applications Include:

- 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, 11.512 = 11.5" x 12" sheets, 11.5/250 = 11.5" x 250' rolls, or 00 = custom configuration

AC = Adhesive, one side
00 = No adhesive

Standard thicknesses available: 0.006"

PPK4 = Poly-Pad K-4 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



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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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