Excellent Integrated System Limited

Stocking Distributor

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Bergquist PPK10-0.006-00-102

For any questions, you can email us directly: sales@integrated-circuit.com

Distributor of Bergquist: Excellent Integrated System Limited

Datasheet of PPK10-0.006-00-102 - THERMAL PAD TO-220 .006" PP K10 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Poly-Pad® K-10

Polyester-Based, Thermally Conductive Insulation Material

Features and Benefits

- Thermal impedance: 0.60°C-in²/W (@50 psi)
- Polvester based
- For applications requiring non-silicone conformal coatings
- Designed for silicone-sensitive applications
- Excellent dielectric strength and thermal performance



Poly-Pad K-10 is a composite of film coated with a polyester resin. The material offers superior thermal performance for your most critical applications with a thermal resistance of 0.2°C-in²/W as well as excellent dielectric 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 fiberglass 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-10						
PROPERTY	IMPERIAL VALUE		METRIC VALUE		TEST METHOD	
Color	Yellow		Yellow		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)	-4 to 302		-20 to 150		_	
ELECTRICAL						
Dielectric Breakdown Voltage (Vac)	6000		6000		ASTM D149	
Dielectric Constant (1000 Hz)	3.7		3.7		ASTM D150	
Volume Resistivity (Ohm-meter)	10 ¹²		10 ¹²		ASTM D257	
Flame Rating	V-O		V-O		U.L.94	
THERMAL						
Thermal Conductivity (W/m-K)	1.3		1.3		ASTM D5470	
THERMAL PERFORMANCE vs PRESSURE						
Press	sure (psi)	10	25	50	100	200
TO-220 Thermal Performance (°C/W)		3.76	3.35	2.75	2.30	2.03
Thermal Impedance (°C-in²/W) (1)		1.04	0.80	0.60	0.43	0.30
1) The ASTM D5470 test fixture was used The reco	rdod valuo incli	idos interfecia	I thormal rocic	tanca Thaca u	aluos ara prov	ided for

reference only. Actual application performance is directly related to the surface roughness, flatness and pressure applied

Touched Assolite Many Inches

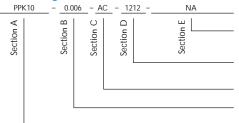
Typical Applications Include:

- 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

PPK10 = Poly-Pad K-10 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.



www.bergquistcompany.com

The Bergquist Company -North American Headqua 18930 West 78th Street Chanhassen, MN 55317 Phone: 800-347-4572 Fax: 952-835-0430 The Bergquist Company -European Headquarters Bramenberg 9a, 3755 BT Eemnes Netherlands Phone: 31-35-5380684 Fax: 31-35-5380095

The Bergquist Company - Asia Room 15, 8/F Wah Wai Industrial Centre No. 38-40, Au Pui Wan Street Fotan, Shatin, N.T. Hong Kong Ph: 852.2690.9296 Fax: 852.2690.2344 All statements, technical information and recommendations herein are based on tests we believe to be reliable, and THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MARKETABILITY AND FITNESS FOR PURPOSE. Sellers and manufacturers only obligation shall be to replace such quantity of the product proved to be defective. Before using user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection therewith. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE EITHER INTORT OR! IN CONTRACT FOR ANY LOSS OR DAMAGE, DIRECT, INCIDENTAL, OR CONSEQUENTIAL, INCIDENTAL OR CONSEQUENTIAL INCIDENTAL OR CONSEQUENTIAL FOR THE CONSEQUENCE OF THE USE OR THE INABILITY OF USE A PRODUCT. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer. PDS, PV.10, 12.08