Infratron Kool Pad PK23-NA

PK23-NA	Material	Thermal Impedance °C/W (Area:TO3)	Breakdown Voltage (V) 50Hz RMS	UL-Rating
Property	Polyester / Fibre glass	0.35	4500	94V0
Test Method	-	ASTM D5470	ASTM D149	UL Test

Description

KOOL-PAD PK23 offers a polyester based, alternative to all other types of thermally conductive insulators.
Constructed from a thermally conductive polyester compound coated onto a layer of woven glass fibre, PK23 provides a strong flexible and clean insulator, which will not crack, age, or permit contamination.

PK23 is a more advanced version of Infratron's PK17, and offers considerably better thermal properties, whilst maintaining a voltage isolation of 4500V

Kool Pad PK materials are also suitable for aerospace and telecommunication applications where the migration of silicone would cause contamination problems. Kool Pads conform to the UL Flame retardant rating of 94-V0.

Ordering information

Standard sheet sizes are 300mm x 300mm each.

Non Adhesive
PK23-NA-30x30

An extensive range of pre-cut profiles is also available, see additional datasheet for details.

Key performance Properties

- High voltage isolation.
- Silicone free, and compatible with most acrylic conformal coatings.
- Fills air gaps between components up to 8% of the pads thickness
- Remains resistant to cleaning agents , and does not support organic growth
- No known deterioration over time.
- Easily cut at room temperature into most configurations using steel rule dies or sharp blades.
- Low tooling costs for custom profiles

Technical Information	Property	Test Standard
Part prefix code	PK23	
Thickness (mm)	0.229 ±0.02	
Thermal Conductivity $Wm^{-1}K^{-1}$	1.05	MIL-I-49456A
Thermal resistance **per cm²**	2.90°C/W	
Hardness	90 ±5	Shore Micro
Tear Resistance kN/m	250	ASTM D624
Tensile Strength MPa	55	ASTM D412
Dielectric Constant 1000Hz	3.12	ASTM D150
Elongation %	35	ASTM D412
Colour	Yellow	
Temperature range	-60°C to 180°C	
Datasheet Issue	03	

For further information on this or any other thermal material call our help line on ++49-(0)89-15 81 26-0 and visit our website at www.Infratron.de

in_PK23.pdf