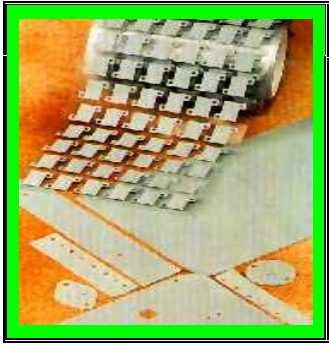
Infratron Kool Pad K200

K200	Material	Thermal Impedance °C/W (Area:TO3)	Breakdown Voltage (V) 50Hz RMS	UL-Rating
Property	Silicone / Fibre glass	0.28	1000	94V0
Test Method	-	ASTM D5470	ASTM D149	UL Test



Description

KOOL-PAD K200 is a high performance thermally conductive, conformable, interface material. It has been designed to be used between component and heatsink to eliminate air gaps and improve the efficiency of heat transfer.

K200 uses a much higher proportion of thermal fillers to produce a thermal performance that exceeds all other materials in its price range. The thermal impedance is 38% less than standard mica and grease. The silicone nature of the product also gives a voltage isolation of 1000V (50Hz rms).K200 conforms to the UL flame retardant rating of 94V-0 and is recognized under file number E123456

Ordering information

Standard sheet sizes are 300mm x 300mm each.

Adhesive backed

K200-AC-30x30

Non Adhesive

K200-NA-30x30

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

Key performance Properties

- Very low thermal resistance with 1000V voltage isolation.
- Fills air gaps between components up to 15% of the pads thickness
- Available in 'Kool-Tak' adhesive backed*, or non-adhesive backing.
- 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

* Kool-Tak is a unique adhesive blend which contains its own thermal particles, thus reducing the thermal resistance of a standard adhesive pad still further.

Technical Information	Property	Test Standard
Part prefix code	K200	
Thickness (mm)	0.200 ±0.02	
Thermal Conductivity $Wm^{-1}K^{-1}$	1.30	MIL-I-49456A
Thermal resistance **per cm²**	1.70°C/W	
Hardness	80 ±5	Shore Micro
Tear Resistance kN/m	50	ASTM D624
Tensile Strength MPa	20	ASTM D412
Dielectric Constant 1000Hz	2.5	ASTM D150
Elongation %	30	ASTM D412
Colour	Light Blue	
Comparative Tracking Index	320	
Temperature range	-60°C to 180°C	
Datasheet Issue	05	

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

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