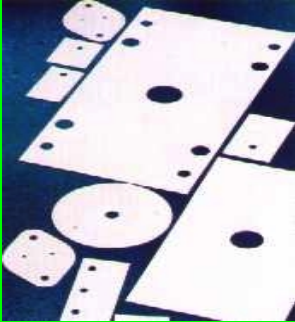


K381

	Material	Thermal Impedance °C/W (Area:TO3)	Breakdown Voltage (V) 50Hz RMS	UL-Rating
Property	Silicone / Fibre glass	0.20	4000	94V0
Test Method	-	ASTM D5470	ASTM D149	UL Test

	Description
	<p>KOOL-PADS K381 is an ultra high performance thermally conductive insulating material. The silicone elastomer is specially loaded with Boron Nitride to provide high thermal conductivity and excellent dielectric strength.</p> <p>K381 is suitable for military or commercial high power applications where low thermal resistance is essential.</p> <p>Kool-Pads K381 meets the UL flame retardant rating of 94V-0.</p>

Ordering information	Key performance Properties
<p>Standard sheet sizes are 300mm x 300mm each. K381-NA-30x30</p> <p>An extensive range of pre-cut profiles is also available, see additional datasheet for details.</p>	<ul style="list-style-type: none"> Ultra low thermal resistance with high voltage isolation. Fills air gaps between components up to 15% 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 Designed for high performance military applications

Technical Information	Property	Test Standard
Part prefix code	K381-NA	
Thickness (mm)	0.381 ±0.02	
Thermal Conductivity Wm ⁻¹ K ⁻¹	3.36	MIL-I-49456A
Thermal resistance per cm ²	1.30°C/W	
Hardness	85 ±5	Shore Micro
Tear Resistance kN/m	50	ASTM D624
Tensile Strength MPa	100	ASTM D412
Dielectric Constant 1000Hz	3.5	ASTM D150
Elongation %	30	ASTM D412
Colour	White	
Comparative Tracking Index	320	
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_K381.pdf](#)