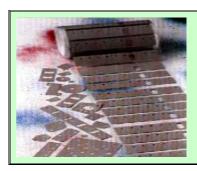


Thermal Products Division

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K177	Material	Thermal Impedance °C/W (Area:TO3)	Breakdown Voltage (V) 50Hz RMS	UL-Rating
Property	Silicone / Fibre glass	0.45	3500	94V0
Test Method		ASTM D5470	ASTM D149	UL Test



Description

Kool Pad K177 is a standard 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. K177 uses effective thermal fillers to produce a thermal performance that is the equivalent to standard mica and grease. The silicone nature of the product also gives a voltage isolation of 3500V (50Hz rms). K177 conforms to the UL flame retardant rating of 94V-0 and is recognized under file number E123456

Ordering Information	Key Performance Properties			
Standard sheet sizes are 300mm x	Low thermal resistance with high voltage isolation.			
300mm each.	Fills air gaps between components up to 15% of the pads thickness.			
Adhesive Backed	Available in Kool-Tak adhesive backed*, or non-adhesive backing.			
K177-AC-30x30	Remains resistant to cleaning agents, and does not support organic growth.			
Non Adhesive	No known deterioration over time.			
K177-NA-30x30	Easily cut at room temperature into most configurations using steel rule dies or sharp blades.			
An extensive range of pre-cut	Low tooling costs for custom profiles.			
profiles is also available, see additional datasheet for details.	*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		
Thickness (mm)	0.177 ± 0.02			
Thermal Conductivity Wm ⁻¹ K ⁻¹	0.79	MIL-I-49456A		
Thermal resistance per cm ²	2.70°C/W			
Hardness	80 ± 5	Shore Micro		
Tear Resistance kN/m	50	ASTM D624		
Tensile Strength MPa	16	ASTM D412		
Dielectric Constant 1000Hz	2.6	ASTM D150		
Elongation %	30	ASTM D412		
Colour	Grey			
Comparative Tracking Index	320			
Temperature Range	-60°C to 180°C			

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