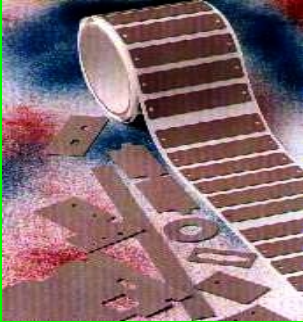


Thermaflex

	Material	Thermal Impedance °C/W (Area:T03)	Breakdown Voltage (V) 50Hz RMS	UL-Rating
Property	Silicone	From 0.92	From 7000V	94V0
Test Method	-	ASTM D5470	ASTM D149	UL Test

	Description
	<p>KOOL-PAD Thermaflex is a thermally conductive, soft interface material. It is designed to be used between component and heatsink to eliminate air gaps and improve the efficiency of heat transfer.</p> <p>Thermaflex uses effective thermal fillers to produce a good thermal performance over a range of thicknesses. The silicone nature of the product also gives a voltage isolation from 7KV upwards (50Hz rms) (Dependant on thickness).</p> <p>Thermaflex conforms to the UL flame retardant rating of 94V-0 and is recognized under file number E123456</p>

Ordering information	Key performance Properties
<p>For 0.5mm to 0.75mm standard sheets are 80mm x 300mm:- Example, for 0.5mm thick, non adhesive backed sheet:- THER-05NA-8x30</p> <p>For 1mm and above, the sheets are 150mm x 300mm:- Example, for 1.5mm thick, adhesive backed sheet:- THER-15AC-15x30</p> <p>An extensive range of pre-cut profiles is also available, see additional datasheet for details.</p>	<ul style="list-style-type: none"> Available in 0.5, 0.75, 1, 1.5 & 2mm thicknesses 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 Soft and compliant nature allows good contact between uneven surfaces, and low mounting pressures. Very high voltage isolation. Available as non-adhesive, or adhesive backed.

Technical Information	Property					Test Standard
Part prefix code	Ther-05	Ther-07	Ther-10	Ther-15	Ther-20	
Thickness (mm)	0.5	0.7	1.0	1.5	2.0	
Thermal Conductivity Wm ⁻¹ K ⁻¹	0.70	0.7	0.7	0.7	0.7	MIL-I-49456A
Thermal resistance °C/W	0.92	1.09	1.40	1.85	2.0	
Hardness +/- 0.5	65	65	65	65	65	Shore Micro
Tear Resistance kN/m	6.5	6.5	6.5	6.5	6.5	ASTM D624
Tensile Strength MPa	1.6	1.6	1.6	1.6	1.6	ASTM D412
Dielectric Constant 1000Hz	4.9	4.9	4.9	4.9	4.9	ASTM D150
Elongation %	85	85	85	85	85	ASTM D412
Colour	Grey	Grey	Grey	Grey	Grey	
Temperature range	-60°C to 180°C	-60°C to 180°C	-60°C to 180°C	-60°C to 180°C	-60°C to 180°C	
Datasheet Issue	04	-	-	-	-	-

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