


KFL

	Material	Thermal Impedance °C/W (Area:TO3)	Breakdown Voltage (V) 50Hz RMS	Phase change point
Property	Advanced phase change polymer.	From 0.17	Thickness dependant	50°C
Test Method	-	ASTM D5470	ASTM D149	-

	Description <p>Kool-Flo is a thermally conductive "phase-change" interface material, designed as an easy to use replacement for thermal grease.</p> <p>Kool-Flo is a dry film that, with light mounting pressure and a temperature of 50°C, softens allowing it to fill the microscopic irregularities that exist between components and their heatsinks. Thus giving a "grease like" interface, without the time consuming, messy handling procedures associated with grease.</p> <p>Kool-Flo is ideal for applications where only low mounting pressures exist and electrical isolation is not required such as microprocessors and clip mount insulated power devices.</p>
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Ordering information	Key performance Properties
<p>Standard sheet sizes are 200mm x 200mm each.</p> <p>KFL XXX-20x20</p> <p>Where XXX represents the thickness of the material. See below.</p>	<ul style="list-style-type: none"> Extremely low thermal resistance Polyimide film within KFL076 gives a voltage isolation of 4KV. Can be supplied with adhesive coating on one side to aid assembly. Easily cut at room temperature into most configurations using steel rule dies or sharp blades. Low tooling costs for custom profiles Low mounting pressure required. Can be pre-applied to heatsink prior to use. Koolflo can also be supplied with an adhesive coating on one face.

Technical Information	Property					
Part prefix code	KFL050-AC	KFL076-AC	KFL076	KFL130	KFL260	KFL520
Thickness (mm) +/- 0.02	0.05 ±0.02	0.076 ±0.02	0.076 ±0.02	0.127	0.254	0.51
Thermal Conductivity Wm ⁻¹ K ⁻¹ MIL-I-49456A	0.40	0.40	0.45	2	3	4
Breakdown Voltage V AC	4000	4000	4000	-	-	-
Thermal impedance per in ² (TO-3)	0.19°C/W	0.21°C/W	0.17°C/W	0.07°C/W	0.12°C/W	0.18°C/W
Thermal impedance per cm ²	1.23°C/W	1.31°C/W	1.10°C/W	0.45°C/W	0.77°C/W	1.15°C/W
Reflow point	50°C	50°C	50°C	50°C	50°C	50°C
Density g/cc	1.25	1.25	1.25	1.25	1.25	1.25
Tear Resistance kN/m	95	95	95	-	-	-
Colour	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Datasheet Issue		08		-	-	-

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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