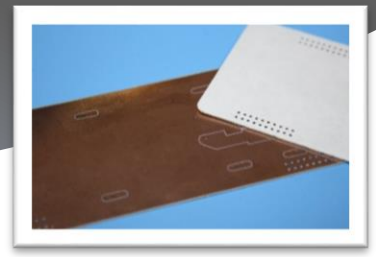


Bondline 1000-REFLOW

Thermal Adhesive Tape



Bondline 1000-REFLOW can be laminated to PCBs prior to processing, enabling the PCBs to be finished/supplied with a thermally conductive, mechanical fixing tape pre-applied. Formulated with acrylic adhesive and ceramic fillers Bondline 1000-REFLOW delivers a strong structural bond, ideal for mounting LED light engines to heat sinks. The pre-applied interface material therefore removes an additional production process saving both time and costs.

Features

- Oven reflow-able thermally conductive, electrically isolating, adhesive tape
- Micro-air voids between connecting surfaces are minimised

Availability

- Available in a standard thickness of 0.15mm
- Available in rolls and sheets, to various widths and dimensions. As well as custom kiss-cut parts on rolls for starboards and custom shapes

Typical Physical Properties

Property (unit)	Test Method	Bondline 1000-REFLOW
Colour	Visual	Grey
Thermal Conductivity (W/mK)	ASTM D5470	1.0

Application Procedure

- Ensure both surfaces are clean
- Peel back glossy blue liner and apply material to rear surface of PCB. For maximum efficiency and to guarantee good thermal wet-out apply moderate pressure for around 5 seconds
- It is important to leave the light coloured, paper liner on at all times – this is only removed by the customer at the point of fixing the PCB to heat sink.
- Apply moderate pressure again for at least 5 seconds to the device for best maximum results. Pressure increases the wet-out between the two mating surfaces

Benefits

- Quick and simple, no-fuss, bonding solution for LED light engines to a heat sink
- Excellent thermal conductivity combined with exceptional thermal performance

Recommended Uses

- Bonding printed circuit boards to a heat sink
- Coupling any metal to metal surfaces
- To connect power supplies or power converters to heat sinks

Mechanical and Other Properties

Property (unit)	Test Method	Bondline 1000-REFLOW
Breakdown Voltage (Vac)	ASTM D149	>3000
Dead Static Shear Temperature (°C)	ASTM 412	>300
Lap Shear – 24 hour dwell (psi)	In House	>100
Shelf Life (months)	In House	12



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This material is often used in these industries:



Industrial



LED



PSU



Automotive

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