

Thermal Adhesive Tape



BONDLINE 700 is an electrically isolating thermal adhesive tape designed to mechanically fix and thermally connect electronic devices and FR4 PCBs to a heatsink. Formulated from acrylic, BONDLINE 700 is pressure sensitive and the differing thicknesses conform to varying surface textures which fills micro-air voids between contact surfaces and reduces thermal resistance. BONDLINE 700 is developed for applications requiring good thermal transfer, dielectric strength and permanent adhesion.

Features

- Electrically isolating, acrylic thermal tape
- Conformability fills micro air voids between mating surfaces reducing thermal resistance
- Allows sufficient heat exchange between component and cooling mechanism

Availability

- Standard thickness of 0,5 and 0,25mm
- *Thickness 0,15 and 1mm available on request.*
- Supplied on 33m (UBOND 725) and 30m (UBOND 750) rolls in varying widths
- Available kiss-cut on rolls and as die-cut custom shapes

Benefits

- Provides excellent adhesion between a variety of substrates
- Delivers a permanent mechanical bond with high dielectric strength
- Simple to handle and apply

Recommended Uses

- Mounting high and mid-power LED modules to a heatsink
- To provide a fast and consistent method of attaching power components to a heat sink

PROPERTIES	UBOND 715 <i>(On request)</i>	UBOND 725	UBOND 750	UBOND 7100 <i>(On request)</i>	Test Method
Base Tape	Filled Acrylic	Filled Acrylic	Filled Acrylic	Filled Acrylic	
Thickness	0.15 mm 6mil	0.25 mm 10mil	0.5 mm 20mil	1.0 mm 40mil	BS 3924
Colour	White	White	White	White	
Tensile Strength (Kg/cm)	0.08	0.15	0.30	0.80	BS 3924
Elongation %	400	400	500	400	BS 3924
Peel Adhesion (Kg/25mm) 30min R.T.	1.2	1.4	1.5	1.7	BS 3924
Shear Adhesion Kg/cm ²	3.5	3.5	3.5	4.5	ASTM D-1002
Thermal Conductivity (W/m K)	0.5	1.0	1.0	1.0	DIN V 54462
Dielectric Strength (Kv)	3.5	6.0	8.0	8.0	ASTM D-149
Operating Temperature (°C)	-25°C to 130°C	-25°C to 130°C	-25°C to 130°C	-25°C to 130°C	
Flame Rating	V2	V0	V0	V0	UL 94
Interliners Both Sides	Release Paper/Filmic Liner	Release Paper/Filmic Liner	Release Paper/Filmic Liner	Release Paper/Filmic Liner	Release Paper/Filmic Liner

