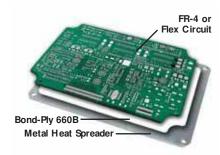
Bond-Ply® 660B

Silicone-Free Formulation, High Performance Thermally Conductive Material

Features and Benefits

- Designed to replace mechanical fasteners or screws
- For applications that require electrical isolation
- D ouble-sided pressure sensitive adhesive tape



Bond-Ply 660B is a thermally conductive, electrically insulating, double-sided pressure sensitive adhesive tape. The tape consists of a high performance, thermally conductive acrylic adhesive coated on both sides of a PEN film. Use Bond-Ply 660B in applications to replace mechanical fasteners or screws.

Typical Applications Include:

- · Mount heat sink onto BGA graphic processor
- · Mount heat sink onto drive processor
- Mount heat spreader onto power converter PCB
- Mount heat spreader onto motor control PCB

Configurations Available:

· Roll form and die-cut parts

The material as delivered will include a continuous base liner with differential release properties to allow simplicity in roll packaging and application assembly.

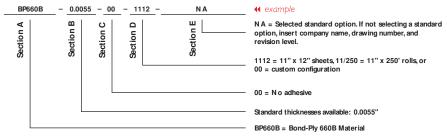
TYPICAL PROPERTIES OF BOND-PLY 660B						
PRO PERT Y	IMPERIAL VALUE		METRIC VALUE		TEST METHOD	
Color	W hite		W hite		Visual	
Reinforcement Carrier	PEN Film		PEN Film		_	
Thickness (inch) / (mm)	0.0055		0.14		ASTM D374	
Temp. Resistance, 30 sec. (°F) / (°C)	392		200		_	
Elongation (%)	40		40		ASTM D412	
Tensile Strength (psi) / (MPa)	30000		210		ASTM D412	
CTE (ppm)	250		250		ASTM D3386	
GlassTransition (°F) / (°C)	-22		-30		ASTM E1356	
Continuous Use Temp (°F) / (°C)	-22 to 248		-30 to 120		_	
ADHESION						
Lap Shear @ RT (psi) / (MPa)	100		0.7		ASTM D1002	
Lap Shear after 5 hr @ 100°C	200		1.4		ASTM D1002	
Lap Shear after 2 min @ 200°C	200		1.4		ASTM D1002	
Static Dead Weight Shear (°F) / (°C)	302		150		PSTC#7	
ELECTRICAL						
Dielectric Breakdown Voltage (Vac)	6000		6000		ASTM D149	
Flame Rating	V-O		V-O		U.L.94	
THERMAL						
Thermal Conductivity (W /m-K)	0.4		0.4		ASTM D5470	
THERMAL PERFORMANCE vs PRESSURE						
Initial Assembly Pressure (psi for 5 seconds)		10	25	50	100	200
TO -220 Thermal Performance (°C/W)		5.28	5.10	4.95	4.80	4.51
Thermal Impedance (°C-in²/W) (1)		0.59	0.59	0.58	0.58	0.58
1) The ASTM D5470 (Bergquist modified) test fixture was used. The recorded value includes interfacial thermal resistance. These values are						

The ASTM D5470 (Bergquist modified) test fixture was used. The recorded value includes interfacial thermal resistance. These values are
provided for reference only. Actual application performance is directly related to the surface roughness, flatness and pressure applied.

Shelf Life: The double-sided pressure sensitive adhesive used in Bond-Ply products requires the use of dual liners to protect the surfaces from contaminants. Bergquist recommends a 6-month shelf life at a maximum continuous storage temperature of 35°C, or 3-month shelf life at a maximum continuous storage temperature of 45°C, for maintenance of controlled adhesion to the liner. The shelf life of the Bond-Ply material, without consideration of liner adhesion (which is often not critical for manual assembly processing), is recommended at 12 months from date of manufacture at a maximum continuous storage temperature of 60°C.

Building a Part Number

Standard Options



Note: To build a part number, visit our website at www.bergquistcompany.com.

Bond-Ply®: U.S. Patent 5,090,484 and others.



www.bergquistcompany.com

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The Bergquist Company -European Headquarters Bramenberg 9a, 3755 BT Eemnes N etherlands Phone: 31-35-5380684 Fax: 31-35-5380295 The Bergquist Company - Asia Room 15, 8/F W ah W ai Industrial Centre No, 38-40, Au Pui W an Street Fotan, Shatin, N.T. Hong Kong Ph: 852.2690.9296 Fax: 852.2690.2344 All statements, technical information and recommendations herein are based on tests we believe to be reliable, and THE FO LLOW ING IS MADE IN LIEU OF ALL W ARRANTIES, EXPRESSED OR IMPLED, IN CLUD ING THE IMPLIED WARRANTIES OF MARKETABILITY AND TITLESS FOR PURPOSE. Sellers' and manufacturers' only obligation shall be to replace such quantity of the product proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all ricks and liability whatsoever in connection therewith. NETHES ELLER NOR MANUFACTURER SHALL BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, DIRECT, INCIDENTAL, OR CONSEQUENTIAL, INCLUDING LOSS OF PROTES OR REVENUE ARISING OUT OFTHE USE OR THE IN ABILITY TO USE A PRODUCT. No statement, purchase order or recommendations by seller or prohaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer.

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