



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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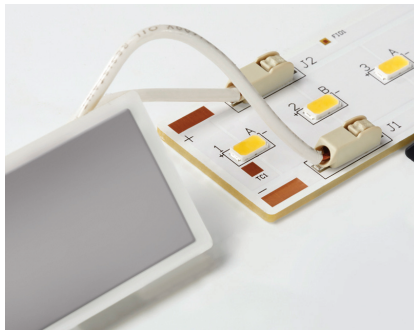
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## Thermally Conductive, Fiberglass Reinforced Pressure Sensitive Adhesive Tape

### Features and Benefits

- Thermal impedance: 0.60°C-in<sup>2</sup>/W (@50 psi)
- High bond strength to most epoxies and metals
- Double-sided, pressure sensitive adhesive tape
- High performance, thermally conductive acrylic adhesive
- More cost-effective than heat-cure adhesive, screw mounting or clip mounting



Bond-Ply® 800 is a thermally conductive, electrically isolating double-sided tape.

Bond-Ply® 800 is utilized in lighting applications that require thermal transfer and electric isolation. High bond strengths obtained at ambient temperature lead to significant processing cost savings in labor, materials and throughput due to the elimination of mechanical fasteners and high temperature curing.

### Typical Applications Include:

- Mount LED assembly to troffer housing
- Mount LED assembly to heat sink
- Mount heat spreader onto power converter PCB or onto motor control PCB
- Mount heat sink to BGA graphic processor or drive processor

### Configurations Available:

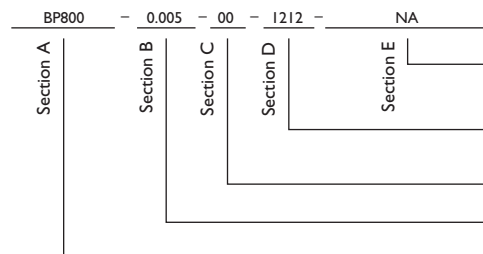
- Sheet form, roll form and die-cut parts

### TYPICAL PROPERTIES OF BOND-PLY 800

PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD		
Color	Gray	Gray	Visual		
Reinforcement Carrier	Fiberglass	Fiberglass	—		
Thickness (inch) / (mm)	0.005, 0.008	0.127, 0.203	ASTM D374		
Elongation (% , 45° to Warp & Fill)	70	70	ASTM D412		
Tensile Strength (psi) / (MPa)	1500	10	ASTM D412		
CTE (um/m·°C), -40°C to +125°C	600	600	ASTM D3386		
Continuous Use Temp (°F) / (°C)	-40 to 257	-40 to 125	—		
<b>ADHESION</b>					
Lap Shear @ RT (psi) / (MPa) (I)	150	1.0	ASTM D1002		
<b>ELECTRICAL</b>		<b>VALUE</b>	<b>TEST METHOD</b>		
Dielectric Breakdown Voltage (Vac), 0.005		4000	ASTM D149		
Dielectric Breakdown Voltage (Vac), 0.008		6000	ASTM D149		
Dielectric Constant (1000 Hz)		4.0	ASTM D150		
Volume Resistivity (Ohm-meter)		10 <sup>11</sup>	ASTM D257		
<b>THERMAL</b>					
Thermal Conductivity (W/m-K)		0.8	ASTM D5470		
<b>THERMAL PERFORMANCE vs PRESSURE</b>					
Initial Assembly Pressure (psi for 5 seconds)	10	25	50	100	200
TO-220 Thermal Performance (°C/W), 0.005	5.0	5.0	4.8	4.3	4.2
TO-220 Thermal Performance (°C/W), 0.008	6.2	6.0	5.6	5.3	5.2
Thermal Impedance (°C-in <sup>2</sup> /W), 0.005 (2)	0.63	0.62	0.60	0.58	0.57
Thermal Impedance (°C-in <sup>2</sup> /W), 0.008 (2)	0.78	0.74	0.72	0.71	0.71

1) Tested per ASTM D1002 with aluminum lap shear samples, 75 psi applied for 5 seconds then pressure removed. 0.5 square inch Bond-Ply 800 sample.  
2) The ASTM D5470 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.

### Building a Part Number



Note: To build a part number, visit our website at [www.bergquistcompany.com](http://www.bergquistcompany.com).

### Standard Options

◀ example

NA = Selected standard option. If not selecting a standard option, insert company name, drawing number, and revision level.

1212 = 12" x 12" sheets, 12250 = 12" x 250' rolls or 00 = custom configuration

00 = N/A

Standard thicknesses available: 0.005", 0.008"

BP800 = Bond-Ply 800 Material