imall

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

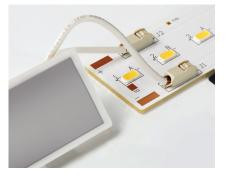
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Thermally Conductive, Fiberglass Reinforced Pressure Sensitive Adhesive Tape

Features and Benefits

- Thermal impedance: 0.60°C-in²/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

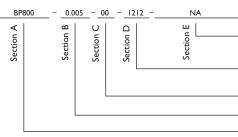
TYPICAL PROPERTIES OF BOND-PLY 800						
PROPERTY	IMPERIAL VALUE		METRIC VALUE		TEST METHOD	
Color	Gray		Gray		Visual	
Reinforcement Carrier	Fiberglass		Fiberglass			
Thickness (inch) / (mm)	0.005, 0.008		0.127, 0.203		ASTM D374	
Elongation (%, 45° to Warp & Fill)	70		70		ASTM D412	
Tensile Strength (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			
ADHESION						
Lap Shear @ RT (psi) / (MPa) (1)	150		1.0		ASTM D1002	
ELECTRICAL			VALUE		TEST METHOD	
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)			1011		ASTM D257	
THERMAL						
Thermal Conductivity (W/m-K)			0.8		ASTM D5470	
THERMAL PERFORMANCE vs PRESSURE						
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-in²/W), 0.005 (2) 0.6			0.62	0.60	0.58	0.57
Thermal Impedance (°C-in²/W), 0.008 (2) 0.7			0.74	0.72	0.71	0.71
 Tested per ASTM D1002 with aluminum lap shear samples, 75 psi applied for 5 seconds then pressure removed. 0.5 square inch Bond-Pk. 800 sample 						

nd-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



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

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

EERCOVIST The Bergquist Company -North American Headquarters 18930 West 78th Street Chanhassen, MN 55317

Phone: 800-347-4572 Fax: 952-835-0430

www.bergquistcompany.com

The Bergquist Company -European Headquarters Netherlands Phone: 31-35-5380684 Fax: 31-35-5380295

The Bergquist Company -Asia Headquarters Hong Kong Phone: 852-2690-9296 Fax: 852-2690-3408

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