

1.0

(150)



BERGQUIST BOND PLY TBP 800

Adhesion Properties

ASTM D1002 (1)

@ 0.005":

@ 10 psi

@ 25 psi

@ 50 psi

@ 100 psi

@ 200 psi

@ 0.008":

@ 10 psi

@ 25 psi

@ 50 psi @ 100 psi

@ 200 psi

Lap Shear Strength @ 25 °C.

Known as BERGQUIST BOND-PLY 800 October 2018

MPa

(psi)

PRODUCT DESCRIPTION

Thermally Conductive, Fiberglass Reinforced Pressure Sensitive Adhesive Tape.

Technology	Acrylic
Appearance	Gray
Reinforcement Carrier	Fiberglass
Total Thickness	0.005, 0.008 inch (0.127, 0.203 mm)
	Thermal management,
	Thermally conductive adhesive
Operating Temperature Range	-40 to 125°C

FEATURES AND BENEFITS

- Thermal impedance: 0.6°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

TYPICAL APPLICATIONS

- 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 onto BGA graphic processor or drive processor

BERGQUIST BOND PLY TBP 800 is a thermally conductive, electrically isolating double-sided tape. BERGQUIST BOND PLY TBP 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 PROPERTIES

Physical Properties

Elongation, 45° to warp and fill, AS	TM D412,%	70
Coefficient of Thermal Expansion,	ASTM D 3386,	600
ppm/°C		
Flammability Rating, UL 94		V-0
Tensile Strength	MPa	10
•	(psi) ((1,500)

Electrical Properties Dielectric Breakdown Voltage , ASTM D149: @ 0.005" (Vac) @ 0.008" (Vac) Dielectric Constant , ASTM D150 @ 1,000 Hz Volume Resistivity, ASTM D257, ohm-meter	4,000 6,000 4.0 1×10 ¹¹
Thermal Properties Thermal Conductivity , ASTM D5470, W/(m-K)	0.8
Thermal Performance vs. Pressure TO-220 Thermal Performance, °C/W: @ 0.005":	
@ 10 psi	5.0
@ 25 psi @ 50 psi	5.0 4.8
@ 100 psi	4.3
@ 200 psi	4.2
@ 0.008":	
@ 10 psi	6.2
@ 25 psi	6.0
@ 50 psi	5.6
@ 100 psi	5.3
@ 200 psi	5.2

Thermal Impedance, ASTM D5470, °C-in²/W (2):



0.63

0.62

0.6

0.58

0.57

0.78 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 BERGQUIST BOND PLY TBP 800
- 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.

GENERAL INFORMATION

For safe handling information on this product, consult the Safety Data Sheet, (SDS).

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

CONFIGURATIONS AVAILABLE

BERGQUIST BOND PLY TBP 800 are supplied in:

- Sheet form
- Roll form
- Die-Cut parts

Conversions

 $(^{\circ}C \times 1.8) + 32 = ^{\circ}F$ $kV/mm \times 25.4 = V/mil$ mm / 25.4 = inches $N \times 0.225 = lb/F$ $N/mm \times 5.71 = lb/in$ $psi \times 145 = N/mm^2$ $MPa = N/mm^2$ $N \cdot m \times 8.851 = lb \cdot in$ $N \cdot m \times 0.738 = lb \cdot ft$ $N \cdot mm \times 0.142 = oz \cdot in$ $m \cdot m \times 0.54 = v \cdot in$

Disclaimer

Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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Reference 2

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Largest Supplier of Electrical and Electronic Components

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