BOND-PLY 660P

Thermally Conductive, Film Reinforced, Pressure Sensitive Adhesive Tape

Features and Benefits

- Thermal impedance: 0.87°C-in.2/W (@ 50 psi)
- Highly puncture-resistant polyimide reinforcement carrier
- Double-sided pressure sensitive adhesive tape
- Provides a mechanical bond, eliminating the need for mechanical fasteners or screws

BOND-PLY 660P 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 polyimide film. Use BOND-PLY 660P in applications to replace mechanical fasteners or screws.

Typical Applications Include:

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

Configurations Available:

Roll form and die-cut parts

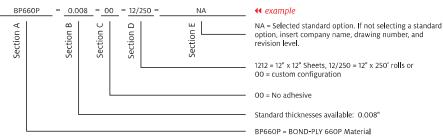
The material as delivered will include a continuous base liner with differential release properties to allow for simplicity in roll packaging and application assembly.

PROPERTY	IMPERIAL VALUE		METRIC VALUE		TEST METHOD	
Color	Light Brown		Light Brown		Visual	
Reinforcement Carrier	Polyimide Film		Polyimide Film		_	
Thickness (in.) / (mm)	0.008		0.203		ASTM D374	
Glass Transition (°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 hrs. @ 100°C	200		1.4		ASTM D1002	
Lap Shear after 2 mins. @ 200°C	200		1.4		ASTM D1002	
ELECTRICAL			VA	LUE	TEST M	ETHOD
Dielectric Breakdown Voltage (VAC)			6,000		ASTM D149	
Flame Rating			V-O		UL 94	
THERMAL						
Thermal Conductivity (W/m-K)			0.4		ASTM D5470	
THERMAL PERFORMANCE VS. PRESS	URE					
Initial Assembly Pressure (psi for 5 seconds)		10	25	50	100	200
TO-220 Thermal Performan	5.48	5.47	5.15	5.05	5.00	
Thermal Impedance (°C	0.83	0.82	0.81	0.80	0.79	

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. Henkel 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, go to www.bergquistcompany.com/Part_Number_Builder.php.

