

3M Thermo-Bond Films

Precision of film, speed of a hot melt, and the strength for demanding applications.

3M Thermo-Bond Films combine some of the best features of several proven 3M adhesive technologies:

Benefits of a 3M film –

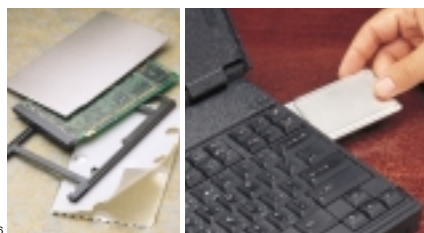
- Precise uniform thickness for consistent bond lines.
- Precise die-cut shapes and sizes for neat manual or automated application.

Benefits of a 3M hot melt adhesive –

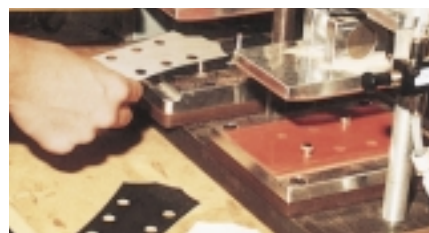
- Bonds in seconds with heat to help eliminate fixturing and speed assembly.
- Solvent-free adhesive system.

Unique strength and performance properties –

- Choice of overlap shear strength on aluminum as high as 2500 psi.
- Formulations for substrates that range from fabrics, polyolefin, and LCP (Liquid Crystal Polymers) to temperature sensitive materials and metal.



Personal Computer Memory Cards – For a bond stronger than high strength pressure sensitive tapes, Thermo-Bond Film bonds stainless steel lids to the connectors and plastic frames.



Guitar assembly – Lexan® face plate is silk screened and then laminated to mahogany or other decorative wood with precisely die-cut 3M Thermo-Bond Film.

	Product	Features	Base Resin	Color	Standard Thickness* (mils)	Overlap Shear Strength (PSI)	180° Peel Strength	2 Lb. Dead load Heat Resistance (°F/°C)
Thermo-Bond Films	TBF406	Good adhesion to metal. Clear.	EAA	Clear	3	2500 on al	3.4 on ss	200/93
	TBF557	Good adhesion to plastics and metal.	EVA	Translucent	4	600 on al	3.6 on al	140/60
	TBF560	Low bonding temperature. 180°F (82°C). Clear.	EVA	Clear	4	260 on al	5 on al	140/60
	TBF615	Good adhesion to a variety of substrates.	Polyester	Tan	4	810 on al	15 on al	215/102
	TBF620	Three layers, 2 mils each. One is dielectric.	Polyester	Tan	6	825 on al	16 on ss	215/102
	TBF644	Medium tack	Polyester	Translucent	1.5, 4, 10	170 on al	6 on al	200/93
	TBF668	High temperature resistance. Slight tack.	Polyester	Tan	4	860 on al	20 on ss	260/127
	TBF669	One side tacky.	Polyester/Acrylic	Translucent	6	275 on al	4.5 on al	130/54
	TBF695	Bonds many porous substrates, including fabrics.	Polyester	White	10	800 on FR4	7 fabric	235/113
	TBF845	Good adhesion to polypropylene and polyethylene.	Polyolefin	Translucent	4	750 on crs	21 on crs	160/71

Note: The technical information and data on these pages should be considered representative or typical only, and should not be used for specification purposes.

* Custom thickness available up to 40 mils.

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