

AN EASY RELEASE FILM FOR ULTRA HIGH TEMPERATURE PCB LAMINATIONS



OVERVIEW

ThermoFilm™ is a two-sided Release Film engineered for Ultra High Temperature PCB laminations requiring an easy clean release after elevated temperature lamination cycles.

Designed to eliminate using inexpertly designed lamination lay-ups, ThermoFilm™, when used with ThermoPad™ provides the "Pacothane®" standard of specific application based attributes. ThermoFilm™ offers the consistent attainment of proper release, surface protection and conformability under the harsh conditions and challenges of elevated temperature laminations.

ThermoFilm™ High Temperature Release Film is offered in one thickness of 1.5 mils. (38µm). All Pacothane® Release Films are manufactured in accordance to our quality standards which guarantees unparalleled performance. All manufacturing and fabrication operations are performed in house offering total supplier control and accountability.

LAMINATION APPLICATIONS

ThermoFilm™ is designed specifically for High Temperature Bondply resin systems such as TK® HT, or LCP where elevated temperatures are used. ThermoPad™ allows an optimum component package of the lamination Lay-up so the user can eliminate alternative generic substitutes proven ineffective in providing consistent laminations. DuPont Pyralux® TK and HT are increasingly popular bondplys used to address increasing High Speed Digital and High Frequency component cycle times specified for emerging technologies on flexible circuit laminates. As a result, there is a definitive need for ThermoFilm™ used with a High Temperature press pad like ThermoPad™ that withstands temperatures greater than 280°C for extended cycle times.

Other High Temperature resin systems such as Polyimide, LCP and PTFE, require higher lamination temperature press pads. The distinct flow characteristic properties of these types of resins cannot be supported in lamination with makeshift components. In order to meet stringent dielectric specifications, these types of applications require a press pad and release film like ThermoFilm™ and ThermoPad™ that complement each other and provides good thermal conductivity with consistent z-axis pressure distribution for an optimum High Temperature lamination process.

LAMINATION PROCESS ADVANTAGES

- Contaminate free release from High Temperature Laminates and Separator Plates
- Rated for Operating Temperatures up to 650°F (343°C) for up to 2 Hours
- Optimal thickness at 1.5 mils (38µm) for easy Handling
- No embedded impurities
- Extremely low X&Y Axis shrinkage
- Minimal static potential
- Essentially inert: no out-gassing, no plate residue, no inter-laminar adhesion influence, and no vacuum system contamination
- Environmentally friendly: no Ozone depleting chemicals, no fluorine's
- When used with ThermoPad™ High Temperature Press Pads, ThermoFilm's™ smooth surface offers superior Conformable properties allowing a complete bonding under elevated temperature conditions



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PRODUCT INFORMATION BULLETIN

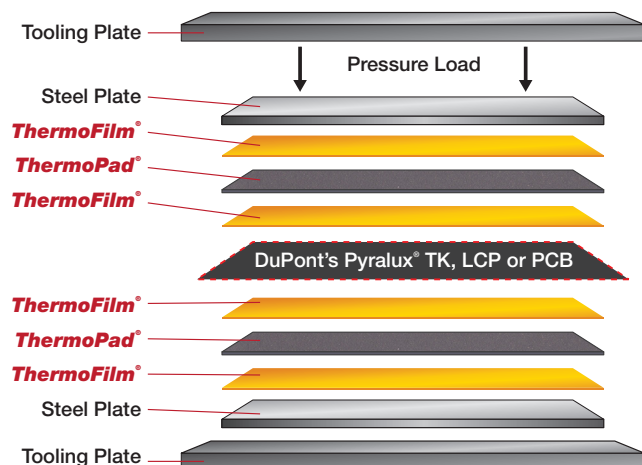
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A Pacothane® Product



Easy Release Film for Extreme Temperature Usage

RECOMMENDED LAMINATION LAY-UP



AVAILABILITY

ThermoFilm™ High Temperature Release Film is available in rolls and in custom-made sheet sizes, tooled to customer specifications. The complete line of Pacothane products is available from leading local Distributors around the world who offer "Just in Time" delivery from local stocks.

Also from Pacothane® Technologies:

RELEASE PRODUCTS



PRESS PADS



CONFORMABLES



CONTAMINATION CONTROL



ULTRA HIGH TEMPERATURE



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D I S T R I B U T E D W O R L D W I D E .

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