PRODUCT INFORMATION BULLETIN





PACOTHANE® HT1500

OVERVIEW

PACOTHANE® HT1500 is a High Temperature resistant release film specifically engineered for laminating rigid, flexible and specialty substrate Printed Circuit Boards. It is manufactured and converted in-house under stringent quality controls.

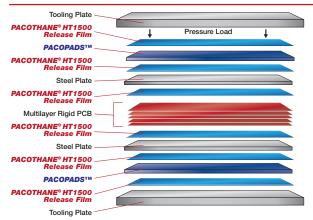
LAMINATION APPLICATIONS

- Rigid Multilayer Panels: to contain resin squeeze-out; to buffer and protect copper from damaged plates; to minimize stress effect from aluminum tooling plates; to reduce frequency of plate cleaning; to increase plate life; to prevent press pads from sticking to plates or bonding to tooling pins. (See lay-up recommendation)
- Flex, Rigid-flex Panels: to contain resin squeeze-out; to provide easy separation of conformal hydraulics and driver pads from PCB surfaces. (See lay-up recommendation)

FEATURES

- Contaminate free release from resins and separator plates
- Rated for Operating Temperatures up to 400°F (204°C) for up to 2 Hours
- Optimal thickness at 1.5 mils (38µm) for easy Handling (50% thicker than competitive release films)
- No embedded impurities
- Extremely low X&Y Axis shrinkage with reduced 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

RECOMMENDED LAMINATION LAY-UP



DESCRIPTION OF STANDARDS

| Physical Property | | Test Method | | Reported Units | Typical Values |
|--------------------------------------|----|-------------------------|--------------|--------------------|----------------|
| Max. Application Temp. | | Q 1025 | | °F (°C) | 400(204) |
| Thickness | | Q 3019 | | mil (µm) | 1.50 (38.1) |
| Density | | ASTM | | g/cm ³ | 0.94 |
| Heat Shrinkage | | MD TD | Q-1045 | % | <5% |
| | | | | 70 | <5% |
| Melting Temp. | | ASTM E794 | | °F (°C) | 495°F (257°C) |
| Appearance | | White, Semi-translucent | | | |
| Tensile Strength (At yeild point) | MD | YP | ASTM D882 | Kg/cm² | 230 |
| | | Elong | ASTM D882 | % | 410 |
| | TD | YP | ASTM D882 | Kg/cm ² | 190 |
| | | Elong | ASTM D882 | % | 520 |

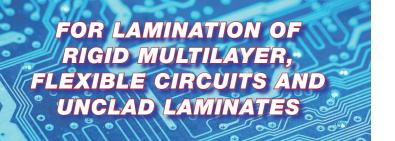


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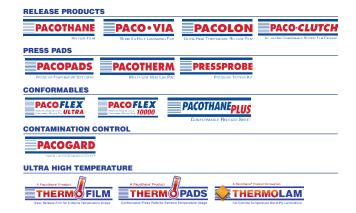


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AVAILABILITY

PACOTHANE® HT1500 RELEASE FILM is available in rolls or custom-made sheet sizes, tooled to customer specifications. The complete line of Pacothane Technolgies products is available from leading local Distributors Worldwide who offer "Just in Time" delivery from locally-available stocks.

Also from Pacothane® Technologies:



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