

PRODUCT INFORMATION BULLETIN

FOR LAMINATION OF RIGID MULTILAYER, FLEXIBLE CIRCUITS AND UNCLAD LAMINATES



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.

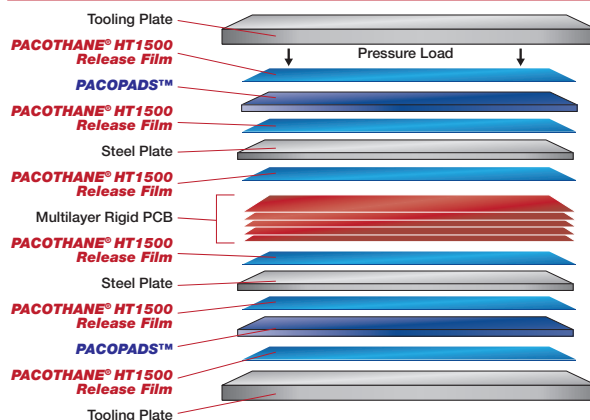
LAMINATION APPLICATIONS

- **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/cm³	0.94
Heat Shrinkage		MD	Q-1045	%	<5%
		TD		%	<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/cm²	190
		Elong	ASTM D882	%	520



37 East Street, Winchester, MA 01890
Phone: 781-729-0927 Fax: 781-729-0929
email: sales@pacothane.com web: www.pacothane.com

PRODUCT INFORMATION BULLETIN

**FOR LAMINATION OF
RIGID MULTILAYER,
FLEXIBLE CIRCUITS AND
UNCLAD LAMINATES**



PACOTHANE® HT1500

AVAILABILITY

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

Also from Pacothane® Technologies:

RELEASE PRODUCTS



PRESS PADS



CONFORMABLES



CONTAMINATION CONTROL



ULTRA HIGH TEMPERATURE



Information contained in this technical literature is believed to be accurate and is offered in good faith for the benefit of the consumer. Inasmuch as Pacothane® Technologies has no control over the use to which others may put the material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make his own tests to determine the material's suitability for his own particular use. Statements concerning possible or suggested uses of the materials described herein are not to be construed as constituting a license under any Pacothane® Technologies patent or application covering such use or as recommendations for use of such materials in the infringement of any patent.

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

REPRESENTED BY:

