PRODUCT INFORMATION BULLETIN

FOR LAMINATION OF RIGID MULTILAYER, FLEXIBLE CIRCUITS AND UNGLAD 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.

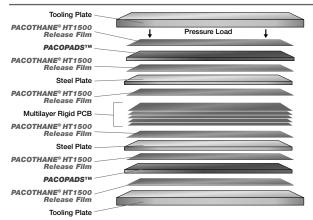
LAMINATION APPLICATIONS

- 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/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/cm ²	230
		Elong	ASTM D882	%	410
	TD	YP	ASTM D882	Kg/cm ²	190
		Elong	ASTM D882	%	520



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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:

RELEASE PRODUCTS

RELEASE PRODUCTS
PACOTHANE PACO • VIA BRIDGE FAN B
PRESS PADS
PACOPADS PRESSPROBE MAIN LIST HAS LAND PACE PRESSPROBE PRESSPROBE PRESSPROBE
CONFORMABLES
PACOFLEX PACOFLEX PACOFLEX PACOFLEX PACOFLEX CONTINUE RELEASE SHITT
CONTAMINATION CONTROL
PACOGARD NORTH Jeft SEFERIER
ULTRA HIGH TEMPERATURE
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