

FOR LAMINATION OF RIGID-FLEX CIRCUITS



OVERVIEW

PACOTHANE® PLUS is a conformable release film that is specifically engineered for use as a component of the Pacothane Plus System for the production of Flexible Printed Circuits (base stock, coverlay, and rigid-flex). Pacothane® Plus brings standardization and predictability to the flex laminating process and offers tangible process advantages. When used with PacoPads both products combined offer consistent “macro” and “micro” Z-Axis Pressure Distribution throughout the complete lamination lay-up.

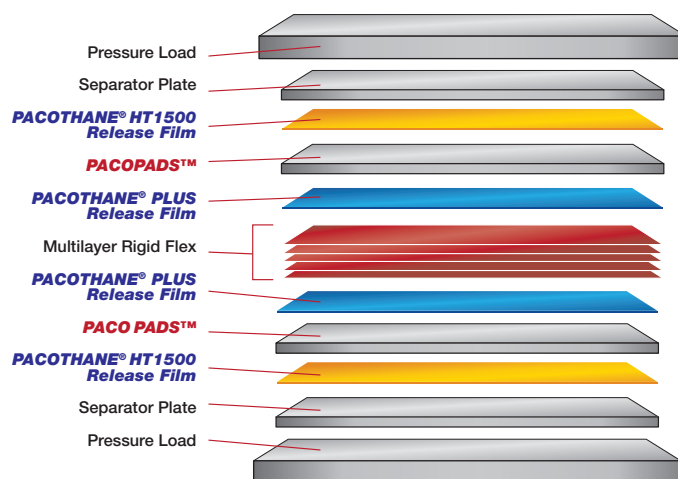
LAMINATION PROCESS ADVANTAGES

- **Reduces Mechanical Distortion** - PACOTHANE® PLUS “locks in” around the laminate components to minimize distortion due to Heat and Pressure. In conjunction with PACOPADS™, the PACOPLUS System conforms in the Z axis only, eliminating the X-Y axis distortion associated with commodity conformal
- **Control of Adhesive Flow** - PACOTHANE® PLUS effectively dams back acrylic or epoxy adhesive flow into pre-drilled or punched openings, as well as at rigid-flex interfaces
- **Quick Easy Release** - Both sides of PACOTHANE PLUS provide quick, easy, & clean release from all surfaces
- **Reduced Lamination Pressure** - The PACOTHANE® PLUS System, consisting of PACOTHANE® PLUS Conformable Release Sheet and PACOPADS™ Pressure Diffuser Press Pads, discreetly conforms in the Z axis while equally distributing pressure across the panel surface. Due to the superior, macro pressure-equalizing characteristics of PACOPADS™, the same amount of hydraulic force is delivered with a lower nominal Ram Pressure, maximum “Z-Axis” pressure equalization and a more robust conformable make-up system

FEATURES

- Two-side Releasable
- Extremely low X-Y axis movement
- Smooth Surface Finish with superior Conformal Properties
- Operating temperature to 425°F (218°C) at lower Ram Pressures
- Eliminates Fiber Pattern Transfer to cover layers
- Clean, inert with no out-gassing of contaminants or solvents harmful to Vacuum Systems
- Environmentally friendly with no ozone-depleting Chemicals or Fluorine's. Suitable for incineration or landfill disposal
- Proven worldwide performance since 1986. The Industry Standard for Rigid-Flex Laminations

RECOMMENDED LAMINATION LAY-UP



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PRODUCT INFORMATION BULLETIN

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DESCRIPTION OF STANDARDS

Physical Property		Test Method		Reported Units	Typical Values
Max. Application Temp.		Q 1025		°F	425°F
Thickness		Q-3019		MiLs	12±5%
Density		ASTM		G/CM³	1.5
Heat Shrinkage (Heat= 190°)	MD	Pacothane®		%	<5%
	TD	Method		%	<5%
Vicat Softening Temperature		ASTM E794		°C	240°C
Appearance		White, Semi-translucent			
Tensile Strength (At yeild point)	MD	YP	ASTM D882	Kg/cm²	2520
		Elong	ASTM D882	%	120
	TD	YP	ASTM D882	Kg/cm²	2702
		Elong	ASTM D882	%	130

PACOTHANE® PLUS is available in 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:



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