

FOR LAMINATION OF COVERLAYS AND FLEXIBLE CIRCUITS



OVERVIEW

PACOFLEX™ 10000 is single layer two-sided conformable release film that is available in a thickness of .0105"/267μ for cover-layer and flex circuit applications that require more hydraulic drive. This film must be used with a buffer release film positioned between the circuit and Pacoflex™ 10000. The other side has a designed suitable release coating that allows it to be easily removed from separator plates or press pads.

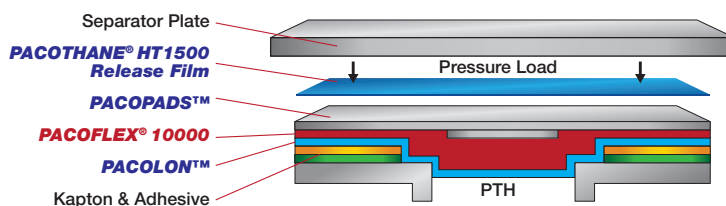
LAMINATION PROCESS ADVANTAGES

- Total Elimination of Entrapped Air between the Cover-Layer and the Circuitized Base Laminate
- Pacoflex™ 10000 delivers increased discreet hydraulic force to reliably drive the Cover-Layer into complete side-wall conformance with the Circuitized Base Laminate
- Finite Control of Adhesive Flow
- Due to the optimized surface, and superior conformability Pacoflex™ 10000 dams back acrylic and epoxy adhesives from flowing into Cover-Layer clearance areas
- Quick, Easy, Contaminate-Free Release when used with proper release buffer sheet
- Pacoflex™ 10000 "locks-in" around the Flexible components to minimize distortion due to Heat and Pressure
- PACOFLEX™ 10000 conforms closely to the part surface without excessive flow-out from the sheet. Deformed Circuits, Crushed Pads, and Glossy Pressure Spots are eliminated, resulting in repeatable Pad Registration due to the engineered z-axis characteristics of the base hydraulic film
- Allows for Reduced Lamination Pressure in some applications
- PACOFLEX™ 10000, used with PACOPADS™ Pressure Diffuser Pads, delivers unmatched Z-axis pressure equalization. These two companion products conform and stabilize the Flexible components allowing the user to study impact of reducing pressure force

FEATURES

- Two-sided direct coat release allows users to develop custom techniques as it relates to special Flex Lamination applications with the added benefit of increased hydraulic "Z" axis
- Engineered Conformance layer that prevents uncontrolled "squeeze-out"
- Smooth Surface Finish for superior Adhesive Flow Control
- Extremely low X-Y axis movement
- Clean, inert with no out-gassing of contaminants or solvents harmful to vacuum systems
- Operating temperature to 425°F/216°C with reduced ram pressures
- Environmentally friendly with no ozone-depleting chemicals or flourines

RECOMMENDED LAMINATION LAY-UP



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 COVERLAYS AND FLEXIBLE CIRCUITS



DESCRIPTION OF STANDARDS

Physical Property		Test Method		Reported Units	Typical Values
Max. Application Temp.		Q 1025		°F (°C)	425°(218°)
Thickness		Q-3019		Mil(μm)	10.5(267)
Density		ASTM		G/CM³	.94
Heat Shrinkage	MD	Q-1045		%	<5%
	TD			%	<5%
Vicat Softening Temperature		ASTM E794		°F (°C)	218°F (103°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

AVAILABILITY

PACOFLEX™ 10000 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:



CIPEL ITALIA SRL

Via Livorno, 8 - 13043 Cigliano (VC)
Tel. 0161 - 433 723 Fax 0161 - 433 828
e-mail: info@cipel.it www.cipel.it