

PRODUCT INFORMATION BULLETIN

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.

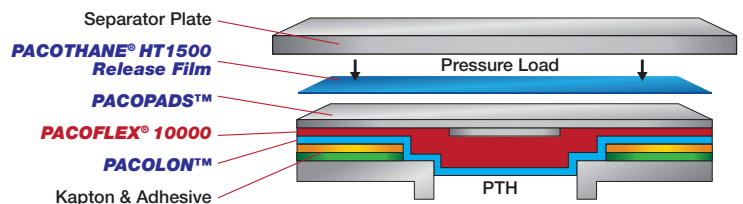
LAMINATION PROCESS ADVANTAGES

- 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



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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/CM ³	.94		
Heat Shrinkage MD TD	Q-1045	% %	<5% <5%		
Vicat Softening Temperature	ASTM E794	°F (°C)	218°F (103°C)		
Appearance	White, Semi-translucent				
Tensile Strength (At yield 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

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



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