

PRODUCT INFORMATION BULLETIN

A BLIND VIA HOLE LAMINATING FILM



PACO•VIA™ 3000

OVERVIEW

PACO•VIA™ 3000 is a two-sided release film designed to be part of a Two-Component System (PACO•VIA™ 3000 and PACOPADS™) as a performance-driven line of High-Temperature, Resin-Blocking Release Films. The PACO•VIA™ 3000 System is specifically engineered to enhance sequential lamination of Buried and Blind Via designed rigid printed Circuit Boards.

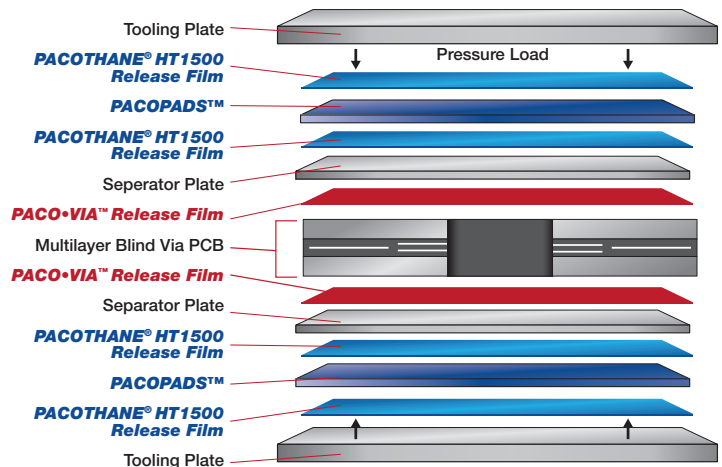
LAMINATION PROCESS ADVANTAGES

- **Resin Containment** - PACO•VIA™ 3000 Resin-Blocking Film contains the resin within the via barrel eliminating the need for secondary processing to remove cured resin from the panel surface
- **Barrel Fill** - PACO•VIA™ 3000 Resin Blocking Film allows the liquid resin to essentially fill the via Barrel
- **Contain Resin Squeeze-out**- PACO•VIA™ 3000 contains resin squeeze-out like traditional release films while offering superior copper surface buffering from damaged Separator Plates
- **Equalization of Pressure throughout the Pressure Load** - The PACOPADS™ component of the PACO•VIA™ 3000 System ensures complete barrel fill, and controlled Dielectric Thickness. PACOPADS™ eliminate air voids, inner-layer slippage and white corners or edges. PACOPADS™ also reduce image and glass cloth Transfer, and alleviate the potential of low-pressure prepreg Blisters.

FEATURES

- Two engineered Grades to fit all sequential lamination demands
- Choice of PACOPADS™ Pressure Equalizing Press Pads designed to suit all lamination process parameters
- Operating temperature of 425°F / 218°C for up to 4 hours
- Essentially inert, no out-gassing, plate residue, interlaminar adhesion influence, no vacuum system contamination
- Environmentally friendly: no chrome-depleting chemicals, no Fluorine's
- The PACO•VIA™ 3000 System is designed to contain the resin flow within Blind Via Holes (onto adjacent copper-carrying layers) and to fill buried Via Barrels, under a wide range of Lamination Pressures (175-350 psi/12-24 kg/cm²), Hole Diameters (.004 to .040"/0.1 to 1.0mm), Heat Rises and Prepreg types
- The PACO•VIA™ 3000 System performs effectively well in Hydraulic and Hydraulic Vacuum-assist as well as with both stainless steel and aluminum Separator Plates. Steel is preferred
- The PACO•VIA™ 3000 System is suitable for all resin system types when laminated within the listed temperature constraints

RECOMENDED 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	Mils	3.25/75μ		
Density	ASTM	g/cm3	0.94		
Heat Shrinkage	MD	Pacothane	%	<5%	
	TD	Method	%		
Melting Temp.	ASTM E794	°C	218°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

PACO-VIA™ 3000 Conformal Release Film is available in rolls and in custom-made sheet sizes, tooled to customer specifications. The complete line of Pacothane® 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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