PRODUCT INFORMATION BULLETIN





HT1500 SMOOTH

OVERVIEW

PACOTHANE® HT1500 SMOOTH - is a High

Temperature resistant release film specifically engineered for laminating rigid, flexible and specialty substrate Printed Circuit Boards. It is designated for those Pacothane Technologies customers who desire a release film application requiring a lower Rz value or less matte image transfer on the surface of the laminated substrate.

LAMINATION APPLICATIONS

- Rigid Multilayer Panels: to contain resin squeezeout; to buffer and protect copper from damaged tooling plates; to minimize stress effect from aluminum 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; for complete conformity to part topography; to provide easy separation of conformal hydraulics and driver pads from PCB surfaces.

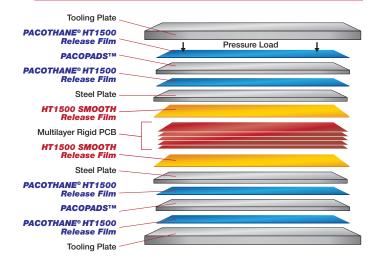
(See lay-up recommendation)

For both of the above applications lower Rz value due to less image transfer is prevalent on all substrate surfaces such as Copper Foil, Kapton and various Unclad Resins when laminated with PACOTHANE® HT1500 Smooth.

FEATURES

- Contaminate free release from circuit 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
- Lower surface Rz value to minimize matte image transfer on the laminated surface of substrate used

RECOMMENDED LAMINATION LAY-UP





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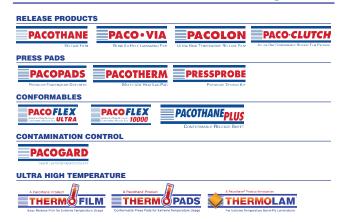
DESCRIPTION OF STANDARDS

Physical Property		Test Method		Reported Units	Typical Values
Max. Application Temp.		Q 1025		°F (°C)	400(204)
Thickness		Q 3019		mil (µm)	1.50 (38.1)
Density		ASTM		g/cm3	0.94
Heat Shrinkage		MD TD	Q-1045	%	<5%
		וט		70	<5%
Melting Temp.		ASTM E794		°F (°C)	495°F (257°C)
Appearance		White, Semi-translucent			
Tensile Strength (At yeild point)	MD	ΥP	ASTM D882	Kg/cm2	230
		Elong	ASTM D882	%	410
	TD	ΥP	ASTM D882	Kg/cm2	190
		Elong	ASTM D882	%	520

AVAILABILITY

PACOTHANE® HT1500 SMOOTH RELEASE FILM Is available in rolls or 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:



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