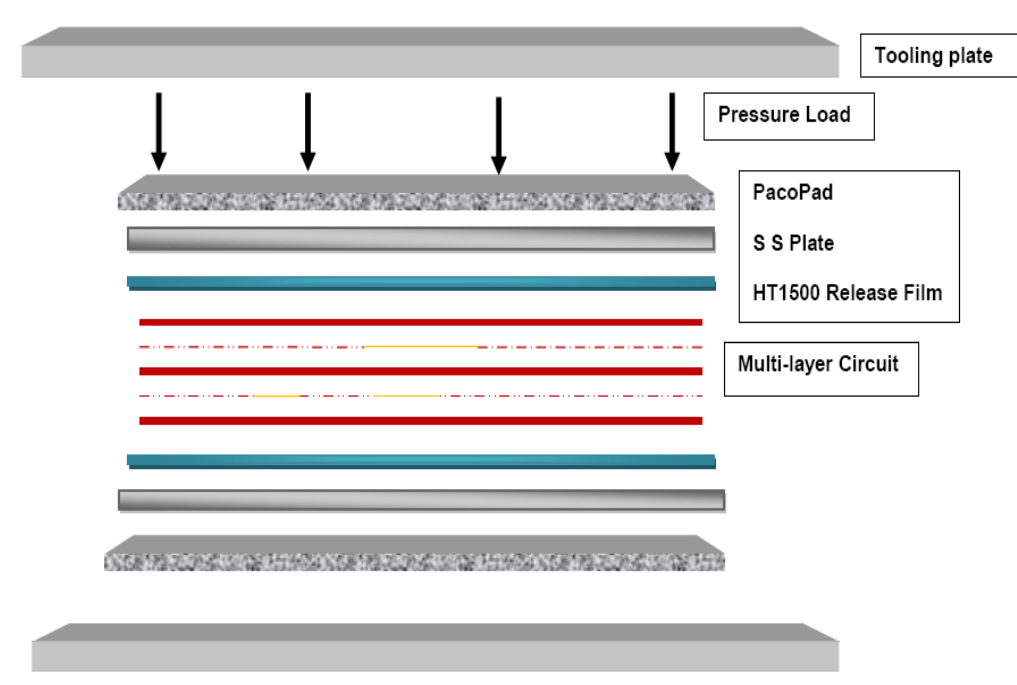


TECHNICAL DATA SHEET

PRODUCT:

PACOTHANE HT1500 Smooth is a two-sided Release Film engineered for Printed Circuit Board Lamination. When used in applications it will consistently contain any resin squeeze-out while acting as a buffer to protect copper from damaged plates or other induced surface related imperfections. "Smooth" is the preferred choice for those laminated surfaces where minimal matte finish is desired. Pacothane Smooth offers a lower Rz value for applications requiring less surface image transfer when placed in contact with Copper. Its low X-Y axis shrinkage minimizes the stress effect from Aluminum tooling plates. "Smooth" can help reduce the frequency of plate cleaning and prevents press pads from sticking to press platens, tooling plates and bonding to tooling pins.

RECOMMENDED LAMINATION LAY-UP:



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/cm ³	0.94		
Heat Shrinkage	MD TD	% %	<5% <5%		
Melting Temp.	ASTM E794	°F (°C)	495°F (257°C)		
Appearance	Gloss Finish on Both sides				
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

SHELF LIFE & STORAGE:

- **Material should be kept in a dry and clean room below 113°F (45°C)**

Note: Pacothane generates this data sheet and specifications that are just for reference. We cannot control the performance impact created from different processes, storage and manufacturing variables.