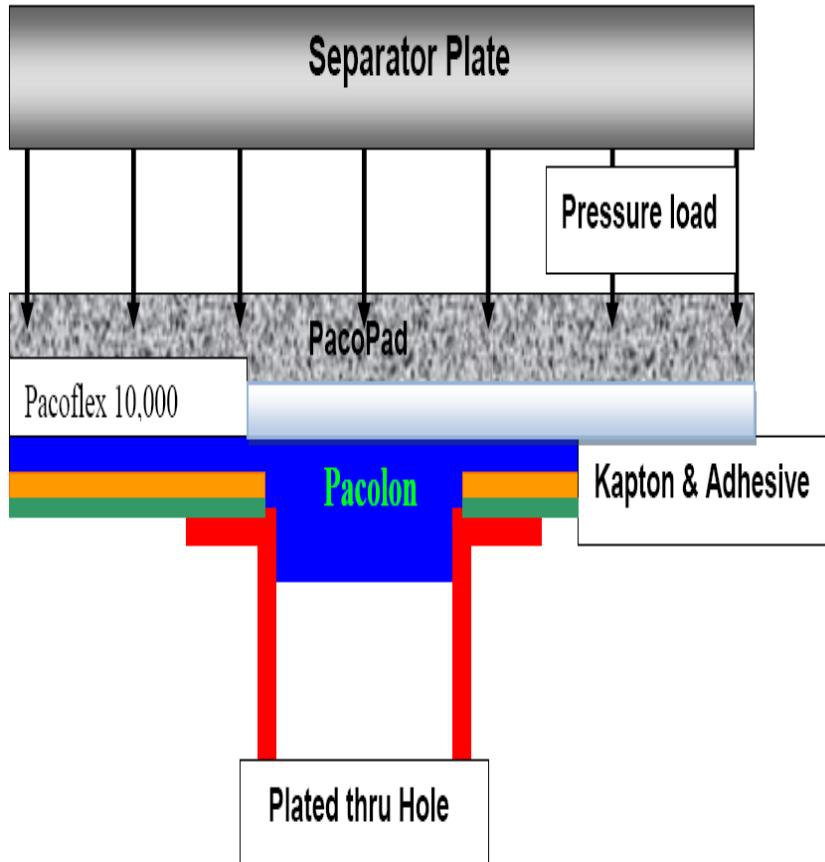


TECHNICAL DATA SHEET

PRODUCT:

PACOLON is a line of ultra high performance Release Films with grades that withstand operating temperatures in excess of **500°F/260°C**. PACOLON films are engineered to provide excellent, contamination-free release during the process of laminating Rigid Polyimide PCBs, all Flexible Circuit Boards, Teflon and other demanding applications.

RECOMMENDED LAMINATION LAY-UP



TECHNICAL DATA

MECHANICAL PROPERTIES	Value	Units	Standard	
Tensile Strength (Molding Direction)	2175 - 5000	psi	ASTM D638	
Elongation at Break (Molding Direction)	150 - 350	%	ASTM D638	
Density	2.13 - 2.19	g/cc	ASTM D792	
Hardness	57 - 64	Shore D	ASTM D2240	
Haze	80 - 85	%	ASTM D1003	
Deformation under Load				
@ 1Hr, 73°F, 2060psi	11.8	%	ASTM D621	
@ 24Hrs, 73°F, 2060psi	14.3	%		
@ Permanent Deformation	7.9	%		
@ 1Hr, 300°F, 725psi	10.0	%		
Compressive Modulus	@ 0.2% Offset, 73°F	87000 - 101500	psi	ASTM D621
Flexural Yield Strength	@ 0.2% Offset, 73°F	-	psi	ASTM D790
Flexural Modulus	@ 73°F	100000	psi	ASTM D790
Compressive Strength	@ 0.2% Offset, 73°F	-	psi	ASTM D695
	@ 0.2% Offset, 300°F	-	psi	
ELECTRICAL PROPERTIES	Value	Units	Standard	
Dielectric Strength	@ Air (Tape)	1525 - 2030	V/mil	ASTM D149
	@ Oil (Extrusion/Molding)	890/610	V/mil	
Proof Test (Dielectric Strength)		610 (Pass)	V/mil	BS6564 (E)
Dielectric Constant	@ 60 Hz	2.1	-	ASTM D150
	@ 10 ⁶ Hz	2.1	-	
Dissipation Factor	@ 60 Hz	<0.0003	-	ASTM D150
	@ 10 ⁶ Hz	<0.0003	-	
Resistivity	@ Surface	10 ¹⁷	Ω	ASTM D257
	@ Volume	10 ¹⁸	Ω cm	
THERMAL PROPERTIES	Value	Units	Standard	
Point of Fusion DSC	620	°F	ASTM D3417	
Max. Working Temperature	500	°F	-	
Max. Working Temperature @ Short Periods	570	°F	-	
Min. Working Temperature	- 390	°F	-	
Thermal Conductivity @ Molding Direction (MD)	1.66	Btu in/(ft ² h °F)	ASTM C177	
Coefficient of Linear Thermal Expansion TMA (73 - 390°F)				
@ Molding Direction (MD)	288	10 ⁻⁶ /°F	ASTM E831	
@ Right Angles to MD	306	10 ⁻⁶ /°F		
Flammability	Pass	-	UL94V(0)	
Flash Point	986	°F	ASTM D1929	
Limiting Oxygen Index	>95	%	ASTM D2863	
WEAR PROPERTIES	Value	Units	Standard	
Coefficient of Friction @ Dry sliding				
Static	0.08	-	ASTM D1894	
Dynamic	0.06	-		

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