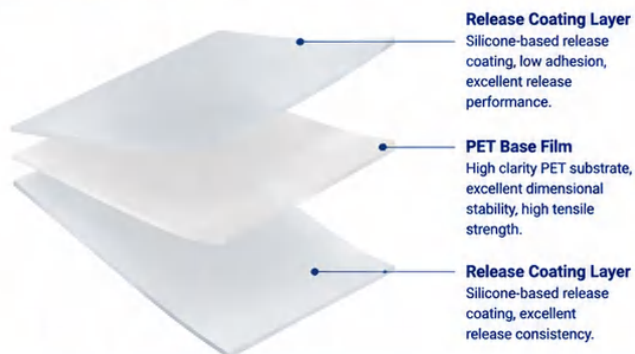




PCB FPC LAMINATION PET RELEASE FILM

ENGINEERING SPECIFICATION CHART

1. MATERIAL STRUCTURE



2. THICKNESS OPTIONS

Total Thickness (PET + Release Coating)	25 μm	36 μm	50 μm	75 μm	100 μm	Custom
Tolerance	$\pm 2 \mu\text{m}$	$\pm 2 \mu\text{m}$	$\pm 3 \mu\text{m}$	$\pm 3 \mu\text{m}$	$\pm 3 \mu\text{m}$	$\pm 3 \mu\text{m}$

3. RELEASE FORCE (ASTM D3330)

Release Grade	Release Force (gf/in)	Application
Low Release	1 ~ 5 gf/in	Easy release, low adhesion requirement
Medium Release	5 ~ 15 gf/in	General lamination application
High Release	15 ~ 30 gf/in	High temperature or multi-cycle use
Custom	Customizable	According to process requirement

6. PERFORMANCE PROPERTIES

Property	Test Method	Typical Value
Operating Temperature	—	-40°C ~ 200°C (Long Term) Up to 220°C (Short Term)
Dimensional Stability	MD	$\leq 0.5\%$ (150°C, 60min)
Tensile Strength	MD	$\geq 180 \text{ MPa}$
Elongation at Break	MD	$\geq 120\%$
Surface Resistivity	ASTM D257	$10^9 \sim 10^{11} \Omega/\text{sq}$
Haze	ASTM D1003	$\leq 2.5\%$
Transparency	ASTM D1003	$\geq 90\%$
Dielectric Strength	ASTM D149	$\geq 120 \text{ kV/mm}$
Chemical Resistance	—	Resistant to acids, alkalis, solvents and flux

8. TYPICAL APPLICATIONS



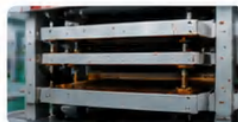
FPC Lamination



PCB Multilayer Pressing



Coverlay Lamination



Hot Press Release

9. STORAGE CONDITIONS

- Temperature: 10°C ~ 30°C
- Relative Humidity: 40% ~ 70%
- Keep away from direct sunlight and moisture.
- Store in original packaging, keep clean and flat.



4. SURFACE TREATMENT



Silicone Release Coating



Anti-static Treatment



Corona Treatment



Custom Coating

5. ROLL SPECIFICATIONS

Roll Width	300 mm	500 mm	1000 mm	1250 mm	Custom
	Tolerance: $\pm 2 \text{ mm}$				
Roll Length	100 m	200 m	500 m	1000 m	Custom
	Tolerance: $\pm 0.5\%$				

7. DIMENSIONAL DRAWING (mm)

