



Product Technical Specification

1. Product Description

P6200E ETFE film is manufactured using a melt casting extrusion process, with the entire film production carried out in a cleanroom. The maximum product width can reach 1500mm. It features excellent chemical resistance, non-stick surface properties, high light transmittance, and high temperature resistance.

2. Product Image



3. Main Use

- ✧ It has excellent non-stick properties, high-temperature resistance, and high flexibility, making it suitable as a release film for semiconductor and LED packaging. Using ETFE as a release film in packaging can reduce demolding force, improve product yield, and minimize mold contamination during prolonged production.

4. Product Features

- Can be used at temperatures between 150°C and 180°C
- Superior non-stick and low-friction properties
- Excellent chemical resistance
- Can be single-sided or double-sided frosted

- Excellent flexibility, can adhere to various surfaces

5. Typical Performance

Test Items	Typical Value	Unit	Test Method
Material	ETFE	-	-
Total Thickness	25~150	μm	-
Specific Gravity	1.72-1.77	-	ASTM D1505
Refractive Index	1.403	-	ASTM D542
Light Transmittance	90	%	ASTM E424
Moisture Absorption Rate	<0.01	%	-
Fracture Strength	42	Mpa	ASTM D882
Elongation at Break	300	%	ASTM D882
MIT Bending Cycles	40,000	cycles	ASTM D2176
Melting Point	260	°C	ASTM D3418
Long-term Use Temperature	150	°C	UL-746B
Heat Shrinkage Rate (150°C × 10 min)	±5	%	ASTM D3595-97
Flame Retardancy	VTM-0	-	UL-94
Limiting Oxygen Index	30	Vol%	ASTM D2863
Dielectric strength	0.025mm Film	160	kV/mm
	1mm Film	30	
Dielectric Constant	1MHz	2.6	-
	1000MHz	2.7	
Dielectric Loss	1MHz	0.007	-
	1000MHz	0.009	
Volume Resistivity	>1.0*10 ¹⁷	ohm.cm	ASTM D257
Surface Resistivity	>1.0*10 ¹⁶	ohm/sq	ASTM D257

6. Product Specifications

- Width: 30~1500mm
- Other customization

7. Storage and Shelf Life

It is recommended to store in a clean and dry place, away from direct sunlight, to prevent the packaging from breaking. The storage temperature is -10~40°C, and the humidity is less than 30-60%;

To maintain the best performance, this product should be used within 24 months from the date of production.