



**YAOJING**

**YAOJING NEW MATERIAL  
TECHNOLOGY CO., LTD.**



**PVB & SGP FILM  
MANUFACTURER**

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## COMPANY PROFILE

Yaojing New Material Technology Co., Ltd. Is was founded in 2008 in Chuzhou City, Anhui Province. Our factory is a pioneering enterprise specializing in the research, development, production, and sales of PVB & SGP intermediate membranes and photovoltaic films. With a registered capital of 5 million yuan and a total project investment of 50 million yuan, our company focuses on automotive, building, and photovoltaic intermediate film projects.

Our extensive range of products finds applications in construction, automotive industries, solar photovoltaic installations, and BIPV photovoltaic curtain wall components. We are committed to delivering high-quality solutions that meet the diverse needs of modern architectural and energy projects.

Our products at Yaojing New Material Technology Co., Ltd. have undergone rigorous testing and attained several prestigious certifications. These include the "CTC National Inspection" for national safety glass quality supervision, "EU CE certification," and compliance with ISO9001:2015 for quality management and ISO45001:2020 for occupational health management systems. These certifications underscore our commitment to delivering products of the highest standards across various industries.



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## OUT PUT VALUE



Our factory facilitated with two advanced automatic over-roll double screw production lines with an annual capacity of approximately 10,000 tons. These lines specialize in the extrusion molding of high-grade PVB film, ensuring automatic cold/heat adjustment to precisely meet customer-specific film thickness requirements. Equipped with advanced online thickness gauges, defect detectors, index analyzers, and other cutting-edge tools, we ensure the stability and precision of product quality. Our capability extends to producing PVB film with a maximum width of 3300mm, effectively meeting diverse customer requirements.

### **BUSINESS PHILOSOPHY**

Adhering to the core values of 'quality first, service foremost', we uphold integrity, professionalism, and efficiency as the pillars of our business. Our commitment to delivering superior quality and exemplary service with gratitude defines our dedication to customer satisfaction.



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# Yaojing Product

## ■ Architectural PVB Film

- ✓ Clear PVB Film
- ✓ Acoustic PVB Film
- ✓ UV Proof PVB Film
- ✓ Color PVB Film

## ■ Automotive & Solar PVB Film

- ✓ Car PVB Film
- ✓ Photovoltaic PVB Film

## ■ SGP Interlayer Film

- ✓ Clear SGP Film
- ✓ Color SGP Film





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## OUR PRODUCTS

PVB intermediate membrane can be widely used in architectural laminated glass, automotive laminated glass, solar photovoltaic glass, bulletproof glass, soundproof glass and so on. It has good safety to prevent the glass from breaking under the action of external force and the splinters from hurting people. In addition, it has sound insulation, ultraviolet protection, can be made of color or high transparency, and has optical application value, such as the application of solar photovoltaic.



### 1. Architectural grade PVB film

suitable for architectural glass with excellent security and anti-theft properties, superior sound insulation, and UV resistance.

### 2. Color PVB film

Available in a variety of colors, enhances aesthetic appeal while providing excellent safety, sound insulation, and UV protection for architectural glass applications

### 3. Photovoltaic grade PVB film

Designed for use in solar panels, offers exceptional durability, UV resistance, and efficiency, making it an ideal choice for renewable energy applications.

### 4. Automotive PVB film

It is designed to improve vehicle safety, noise reduction, and UV protection, making it an essential component in modern windshield and window manufacturing



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# Architectural Clear PVB Film

Description: Suitable for architectural glass with excellent security and anti-theft properties, superior sound insulation, and UV resistance.

**Features:**

- ✓ Enhanced safety and security
- ✓ Superior sound insulation
- ✓ Excellent UV resistance
- ✓ Ideal for modern building applications



Thickness	0.38mm	0.76mm	1.52mm
Color	Extra Clear		
Appearance	Achromic or yellowish transparent film with smooth surface		
Length (m)	450	250	120
Width (mm)	500-3300	500-3300	500-3300
Thickness Tolerance(mm)	±0.02	±0.02	±0.02
Haze %	≤0.15	≤0.15	≤0.3
Light Transmittance	≥90%	≥90%	≥90%
Roughness	23 - 30	25 -35	32-45
Moisture %	0.35 - 0.55	0.35 - 0.55	0.35 - 0.55
Yellow Index	≤1.2	≤1.2	≤1.2
Shrinkage(60C/15min)	≤3	≤2	≤1.5
Tensile Strength	≥20	≥20	≥20
Knock value	7 - 9	7 - 9	7 - 9
Elongation at break	≥200	≥200	≥200



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## Color PVB Film

Description: Available in a variety of shades, enhancing aesthetic appeal while providing excellent safety, sound insulation, and UV protection.

**Features:**

- ✓ Wide range of colors
- ✓ Enhances aesthetic appeal
- ✓ Superior safety and security
- ✓ Excellent sound insulation and UV protection



Thickness	0.38mm
Length (m)	450
Width (mm)	500-3300
Thickness Tolerance(mm)	±0.02
Haze %	Dependes to the film color
Light Transmittance	Oct-88
Roughness	23 - 30
Moisture %	0.35 - 0.55
Yellow Index	
Shrinkage(60C/15min)	≤5
Tensile Strenth	≥20
Knock value	7 - 9
Elongation at break	≥200



Acoustic PVB (polyvinyl butyral) is a specialized interlayer used in acoustic laminated glass. Unlike standard clear PVB, which is designed primarily for safety and UV protection, acoustic PVB is formulated with soft plasticizers and damping additives to absorb and reduce sound transmission.

This makes it ideal for soundproof glass installations in:

- ✓ Residential buildings near highways or airports
- ✓ Offices, hotels, and hospitals
- ✓ Recording studios and broadcasting centers

Glass Configuration (Laminated Glass)	Approx. Sound Reduction (Rw)	Notes
4 mm +PVB 0.76+ 4 mm	38–39 dB	Entry-level sound insulation
5 mm + 5 mm	40–41 dB	Common in residential windows
6 mm + 6 mm	43–45 dB	Standard acoustic performance
8 mm + 8 mm	46–47 dB	High performance for quiet zones
10 mm + 10 mm	47–48 dB	Ideal for hospitals, studios, etc.
12 mm + 12 mm	48–49 dB	Premium-grade insulation
6 mm + 12 mm	45–46 dB	Asymmetric glass further reduces low-frequency noise





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# Photovoltaic PVB Film

ITEMS	TRANSPARENT	WHITE
Thickness mm	0.76, 0.5, 1.14, 1.52	0.5
Moisture %	0.35 - 0.55	0.35 - 0.55
Roughness	25 - 50	20-35
Knock value	7 - 9	7 - 9
Shrinkage(60C/15min)	≤3	≤4
Haze %	≤0.4	≤0.4
Light Transmittance	≥90%	≥90%
Tensile Strength	≥20	≥20
Yellow Index	≤8	≤8
Volume resistivity	≥10*10	≥10*10
Anti - UV	375	375
Elongation at break	≥200	≥200
Shear Force	≥16	≥16

Description: Designed for use in solar panels, offering exceptional durability, UV resistance, and efficiency.

**Features:**

- ✓ High durability and longevity
- ✓ Superior UV protection
- ✓ Maximizes solar panel efficiency
- ✓ Ideal for renewable energy applications





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## Automotive PVB Film

Description: Improves vehicle safety, noise reduction, and UV protection, essential for modern windshield and window manufacturing.

**Features:**

- ✓ Enhanced vehicle safety
- ✓ Superior noise reduction
- ✓ Excellent UV protection
- ✓ Essential for automot

ITEMS	TRANSPARENT
Thickness mm	0.38, 0.76, 1.14
Uniformity(mm)	≤0.022mm
Width(mm)	+ (0 -15)mm
Density(g/cm <sup>3</sup> )	1.07g/ cm <sup>3</sup>
Tensile Streth (N)	≥200N
Haze %	≤0.3
Light Transmittance	≥90%
Elongation at break	≥200%
Shrinkage(60C/15min) (%)	≤3
Yellowish (%)	≤10%
Color	Clear, Blue Band, Green Band



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## SGP Film

For advanced structural glazing and safety.

✓ Clear SGP Film

Superior strength and clarity for high-performance laminated glass in structural and impact-resistant applications.

✓ Color SGP Film

Combines the benefits of SGP interlayers with design flexibility for architectural expressio

SGP Specification		
Thickness(mm)	Max Width(mm)	Standard Roll Length(m)
0.76	3300	200
0.89	3300	200
1.14	3600	150
1.52	3600	100

Technical parameter	
Physical Parameters	SGP measurement
Young's Modulus	298 Mpa
Tear Strength	150 kN/m
Tensile Strength	34.5 Mpa
Elongation	280%
Density	0.958 g/cm <sup>3</sup>
Flex Moduls 23 C (73 F)	345 Mpa
Heat Defledction (HDT) (0.46Mpa)	43 °C
Melting Point	94 °C
coeff of thermal expansion (-20C ~ 32C)	10~15*10 <sup>3</sup> cm/cm °C
Haze	≤45%
Yellowness	≤1.5%
Refractive index	1.5
Transmittance	≥ 90.0%
UV blocking	99%
Burning Point	470 °C
Spread Index	30
Combustion Smoke index	215



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# Our Certificates





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# Quality Control

◆ Thickness Control



◆ Quality Assurance



◆ Moisture Control





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## Factory Equipment & Raw material

We use high-quality resin to produce our PVB, ensuring that the final product meets the highest standards of performance and reliability.



AUTOMATIC PRODUCTION LINE



AUTOMATIC WINDER

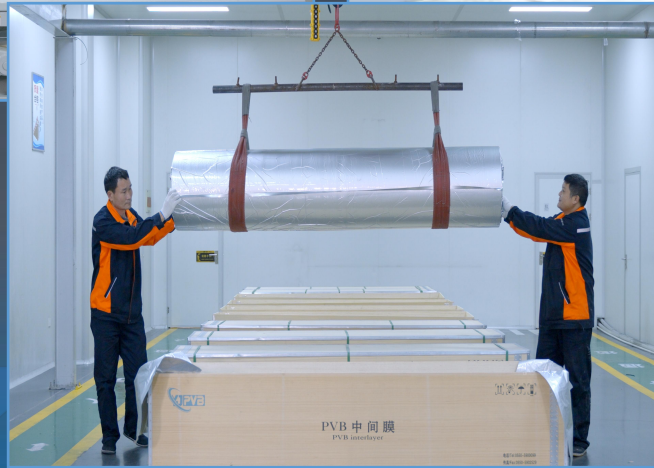




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## Packaging

Each layer of PVB film is separated by PE film and vacuumed in an aluminum foil bag, then put into a plywood box.





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Yaojing, Bonding Glass With Strength & Clarity

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