

Properties of Laminating Safety Glass with PVB Interlayer Film

- **Polyvinyl Butyral PVB Interlayer Film**
- **Polyvinyl butyral PVB interlayer film is the resin that compounded from polyvinyl alcohol reacted with butyraldehyde. Polyvinyl butyral PVB interlayer film is usually implied in the situation that needs strong binding, toughness and flexibility. Polyvinyl butyral PVB interlayer film as a protective interlayer film, is often used to make automotive laminated glass and architectural laminated glass. Polyvinyl butyral PVB interlayer film has many properties: Impact resistance, great adhesion, sound control, UV-radiation filtered, and good aging resistance.**

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PVB FILM FOR LAMINATED GLASS

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Property Items	PVB
Density	1.069g/cm ³
Tensile Strength	≥ 20MPa
Elongation	≥ 200%
Visible Light Transmission Rate	88.5%

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Haze	$\leq 0.4\%$
Ultraviolet Radiation Blocking Rate	99%
Weather Resistance (85°C,85% Humidity,UV,1000 hrs)	<3.0% Change of Transmittance
Moisture Absorption	0.4-0.6%
Shrinkage	<6%

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High Temperature Resistance	Qualified
Moisture Resistance	Qualified
Impact Resistance Against Shot-Bag	Qualified
Radiation Resistance	Qualified
Ball Impact Peeling Resistance	Qualified

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- **Polyvinyl Butyral PVB Interlayer Film for Laminated Glass**
- Polyvinyl Butyral PVB interlayer film have the impact resistance. The single flat glass would lead to serious injuries to human being or other properties when it's broken, but Laminated glass with Polyvinyl Butyral PVB interlayer film can stick the glass together when it's impacted, which can remain it's safety. The safety of the laminated glass with Polyvinyl Butyral PVB interlayer film is popularly recognized as safety glass in architectural design.
- And Polyvinyl Butyral PVB is good at penetration resistance, so is better than tempered glass in Automotive windshield implication.

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