



## **Difference Between Laminated Glass and Conventional Toughened Glass**

Laminated is a type of safety glass which holds together when shattered. In the event of breaking, the glass is held in place by an interlayer, such as EVA(Ethylene Vinyl Acetate Copolymer), between the layers of glass. The interlayer keeps the layers of glass bonded even when broken, and its high strength prevents the glass from breaking up into large sharp pieces, which produces a characteristic “spider web” cracking pattern when the impact is not enough to completely pierce the glass. It is often used in applications such as building facades, shop front windows, security screens, walk on floors, overhead canopies, domes etc.

### **Ethylene vinyl acetate (EVA)**

A sheet film of EVA (to a maximum width of 2.3 meters) is placed between two sheets of glass, a vacuum is applied to force the glasses together and suck out air to avoid bubbles inside the silicone vacuum bag, and then it is heated to soften the film and make it adhere to the glass.

EVA has a high tensile strength, excellent transparency, outstanding cohesion properties, good resilience to temperature changes, humidity, durability and long-term reliability. It is ideal for areas prone to moisture such as shower screens and wet rooms. It is often used for increased safety, security and sound insulation for various indoor and outdoor applications.

Laminated safety glass is considerably more impact resistant than conventional glass. Tests have shown it is some 30 times more intruder-resistant than conventional toughened glass. It is strong enough to withstand a vigorous attack from a heavy or sharp weapon. It can resist an aggressive attack for 20 to 30 seconds compared to toughened glass which would resist a similar attack for only one or two seconds.

### **Notes:**

We try to collect more information of laminated glass glazing with EVA / PVB interlayer film, to help more people to understand the safety laminated glass better.

### **CNC Glass Interlayer**

**[www.cncglass.com](http://www.cncglass.com)**

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1-Super clear eva glass interlayer film, for both indoor and outdoor laminated glass application;

Super Clear EVA Film for Massive Lamination

EVAFORCE SUPER+

\*Super Clear EVA Film for Massive Lamination

\*Massive,Largest sold quantity in all EVA films



- \*Great performance with affordable price
- \*Aim for architectural safety laminated glass
- \*Applied both indoor and outdoor
- \*Replacing PVB Film

Super Clear EVA Film for Tempered Curved Glazing  
EVAFORCE® EXTREME

- \*Super Clear EVA Film for Tempered Curved Glazing
- \*Less overflowing during vacuuming heating
- \*Strengthened safety mechanical properties
- \*Recommended for extreme environments, safety tempered glazing or curved glass laminating
- \*Applied both Indoor and Outdoor
- \*Replacing PVB Film

Super Clear EVA Film for Graphic Insertions  
EVAFORCE® LOW80-120

- \*Super Clear EVA Film for Graphic Insertions
- \*Laminating both at 80° C and at 130° C
- \*Protect the insertions from above 100° C

2-White eva glass interlayer film, for both indoor and outdoor laminated glass application;  
Milky White/White Opaque EVA Film  
0% Visible Light Transmittance

Sandblasting White/White Translucent EVA Interlayer Film  
65% Visible Light Transmittance

Black Opaque EVA Interlayer Film  
0% Visible Light Transmittance

Super Milky White/Super White Opaque EVA Interlayer Film  
0% Visible Light Transmittance  
Pure in White Color  
Amazing Visual Effect

Arctic Snow White EVA Interlayer Film  
78% Visible Light Transmittance  
Exterior and Interior Application  
Amazing Visual Effect

Cool Jade White/Cool Acid White EVA Interlayer Film



81% Visible Light Transmittance

Exterior and Interior Application

Amazing Visual Effect

3-Thermal cutter for trimming laminated glass edges overflowed remains;

4-Green tape for fixing laminated glass, high temperature resistance;



**cnc**

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**SAFETY&SECURITY OF EVAFORCE INTERLAYER FILM**



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