

11.52 ultra clear SGP laminated glass,super clear safety glass with SGP interlayer

Something about safety glass and SGP laminated glass:

Tempered glass and laminated glass are known as safety glass, but the laminated glass is much more security than tempered glass, because when they broke, the [tempered glass](#) will scatter, and the laminated glass will stick on the interlayer.

There are so many types of laminated glass, such as PVB laminated glass, EVA laminated glass and SGP laminated glass. A material that you need to consider when choosing glass lamination is SGP interlayer.

SGP film ionoplast interlayers help create lighter, safer laminated glass that is opening up new levels of performance. SGP interlayers are five times stronger and up to 100 times stiffer than conventional laminating materials. With this kind of strength, SGP interlayers help create stronger laminated glass that protects against storms, impacts and powerful blasts.

SGP interlayers are used in laminated glass to help architects and glazed building system manufacturers meet society's need for security, energy efficiency, safety and maintenance ease. It helps builders do more with less, creating innovative new spaces, while providing greater protection for building occupants.

SGP laminated glass advantages

- **High strength:** the laminated glass with SGP interlayers is five times stronger and up to 100 times stiffer than normal laminating materials like PVB interlayer.
- **High safety:** The SGP tempered laminated glass retains its character and maintains a residual barrier, even after the glass broken, it is standing, not falling down.
- **Great weather resistance:** The SGP toughened laminated glass can be against to the severe weather like storms, hurricane and cyclone.
- **Outstanding clarity:** Yellow index is smaller than 1.5, even after years of service, SentryGlas® interlayers could provide superior, lasting beauty for laminated glass, it's an ideal choice for [low iron glass](#) laminates.
- **Create aesthetic sense:** The SGP is thinner and lighter than PVB, and the SGP laminated glass does not need to be framed, so it's easy to be installed and make the architecture more attractive.

11.52 ultra clear SGP laminated glass specification:

11.52 ultra clear SGP laminated glass is two sheets of [5mm ultra clear glass](#) bonded together by 2 interlayers (1.52mm) to produce a desired outcome.

The benefits of laminated glass are plentiful. Ranging from strength and safety under impact, through to custom glass colours, custom combination and thickness, like below mention:

Size: Max 3000*5000mm, Mini 300*300mm, any customized size could be produced.

Thickness: glass substrates could be 5mm, 6mm, 8mm, 10mm, 12mm, 15mm, etc.,

SGP thickness 0.89mm, 1.52mm, 2.28mm, etc.

Glass type: Colorless float glass, low iron ultra clear float glass, low-e glass, acid etched glass, screen-printed glass, etc.

Ultra clear SGP laminated glass usage:

Ultra clear SGP laminated glass to provide superior, lasting beauty for laminated glass whatever the application - from floors and stairs to balcony rails and minimally supported glass canopies. Super clear laminated glass can be used in many laminated glass applications including:

Glass flooring/stairs.

Prisons.

Animal enclosures.

Hurricane resistant windows, doors and skylights.

Bomb blast resistant windows, doors and facades.

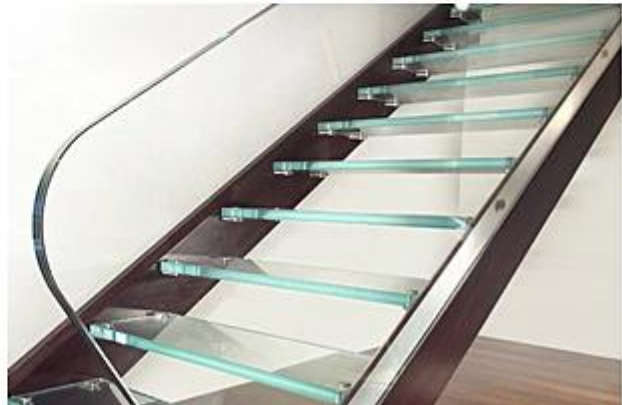
Minimally supported and open-edged railings, facades and canopies.

Balustrades/fencing.

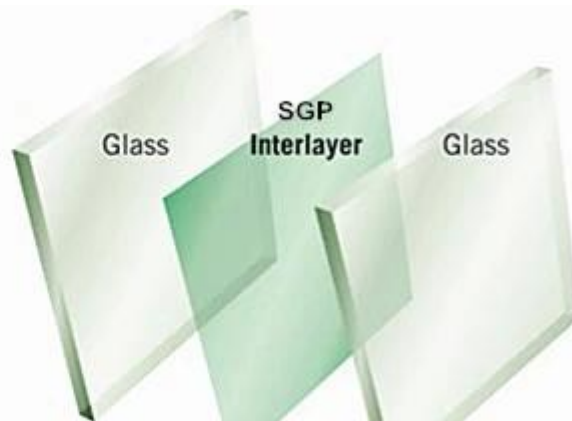
Commercial/residential glazing in cyclone prone areas.

Security glass/bullet proof.

Structural glass flooring, stairs, walkways and pedestrian bridges and more.



China professional glass factory supply 11.78 ultra clear SGP laminated glass;



Performance data

Material	SGP	PVB	Standard
Performance			
Density (g/cm ³)	0.95	1.07~1.08	ASTM D-792
Coefficient of linear expansion (°C ⁻¹)	10~15x10 ⁻⁵ (-20°C ~32 °C)	4x10 ⁻⁴	ASTM D-696
Tensile strength (Mpa)	34.5	20	ASTM D-638
Tear strength (Tear energy) (MJ/m ³)	50	10-15	ASTM D-638
CSS (Mpa)	>20.7		Du Pont
Elongation (%)	400	275 (ASTM D-412)	ASTM D-638
HDT @ 66 PSI	43°C		ASTM D-696
Haze	<2%	<2	
YID %	<2.5	10-15	(interlayer)
Refractive index	1.5	1.47~1.5	
UV cutoff wavelength (nm)	310	380	
UV screening (%) 3C+0.38+3C	99.98	99.98	

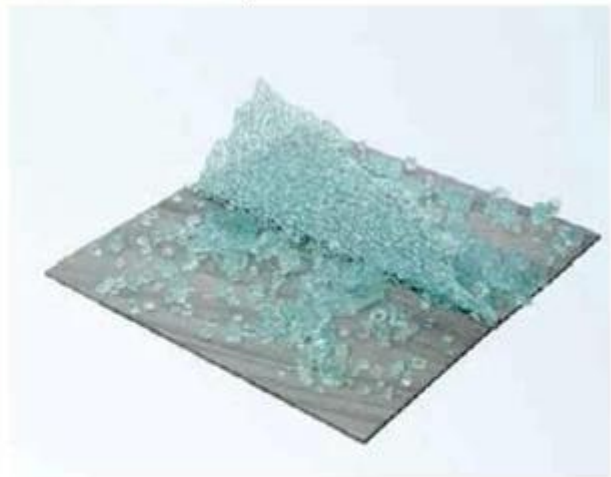
Difference between [pvb laminated glass](#), sgp laminated glass and tempered glass



Laminated Glass with
SGP Interlayer



Laminated Glass with
PVB Interlayer



Tempered Glass

Laminated Glass Workshop



Laminated Glass Safety Packing

