

China SGP tempered laminated glass manufacturer

Brief Introduction

Nowadays, the SGP laminated glass is more and more popular between the architects, designers and contractors, because of its added strength, clarity, durability, fabrication and installation ease. SGP Laminated Glass is two or more sheets of [tempered glass](#) bonded together by a single or multiple SentryGlas® interlayers (from Dupont) to produce a desired outcome.

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.

Specification

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.

Application

The SGP laminated glass could help builders do more with less, create innovative new spaces, and providing greater protection for building occupants, so it can be used in many applications, such as:

- Hurricane resistant windows, doors and skylights
- Bomb blast resistant for shop, bank and prison
- Minimally supported and open-edged railings, balustrade and canopies
- Structural glass flooring, stairs, walkways and pedestrian bridges

Performance data

Material Performance	SGP	PVB	Standard
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	

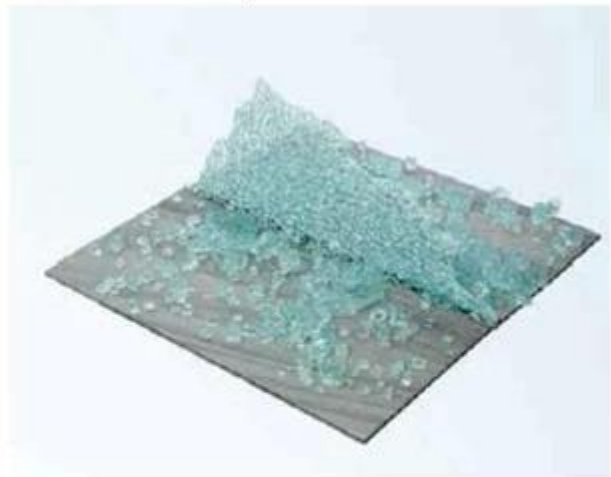
Difference between [pvb laminated glass](#), sgp laminated glass and tempered glass



Laminated Glass with
SGP Interlayer



Laminated Glass with
PVB Interlayer



Tempered Glass

Laminated Glass Workshop



Laminated Glass Safety Packing

