Technical Data Sheet Of SGP

Model No.: SG800
Thickness: 0.76 mm, 0.89 mm, 1.52 mm, 2.28 mm, etc. Other thicknesses available upon request.
Width: Up to 4300 mm, customizable according to customer requirements to meet different glass dimensions.
Advantages: 1. Extremely high strength: 5 times stronger than traditional PVB interlayers, with stiffness up to 100 times higher. 2. Excellent clarity: superior optical properties, suitable for ultra-clear glass combinations. 3. High durability: plasticizer-free formulation, outstanding weather resistance and edge stability. 4. Post-breakage safety: high residual strength after heavy impact, providing collapse resistance.
Applications: 1. Curtain walls and glass fins (especially open-edge designs). 2. Glass railings, balconies, glass floors, stair treads. 3. Point-supported glass and all-glass curtain walls (structural glass applications). 4. Hurricane-resistant impact glazing, blast-resistant and high-security safety glass.
Covers three main areas: building, structural, and security.
Test Location: In-house factory laboratory.
Test Environment: Ambient temperature: -20°C to +60°C; evaluation of structural performance under high temperature (+50°C), high humidity, and extreme thermal cycling.

Property	Unit	Test Method	Test Result
Density	g/cm³	ASTM D792	0.96
Haze	%	ASTM D1002-21	0.22
Light Transmittance	%	ASTM D1002-21	90.6
Moisture Content	%	SH/T1770-2010	0.10
Tensile Strength	MPa	ASTM D638	34.8
Elongation at Break	%	ASTM D638	279.5
Tear Strength	kN/m	ASTM D1004	146.7
UV Blocking	%	ASTM E903	99.9
Heat Shrinkage	%	T/ZBH 014-2021	1.1
Pummel Value	class	T/ZBH 014-2021	9
Yellowness Index	%	ASTM E313	0.21

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