



Saflex® Clear PVB interlayer

Make architectural glazing safer.







Saflex® Clear PVB interlayer, our most popular formulation, is available in two different adhesion levels for architectural applications. These different adhesion levels are generally selected based on the laminator's processing parameters. Both formulations give architects and builders the ability to meet or exceed the human safety impact requirements for laminated safety glass with properly produced laminates.

Saflex Clear, Vanceva® Earth Tones collection, and Vanceva® Colors are interlayers based on the conventional Saflex formulation. For decades, these interlayers have been successfully layered with each other in the production of laminated glass. The flexibility to layer these products to a desired interlayer thickness or to achieve a specific color can add to the capability of the laminated glazing system in many areas of performance.

Whether protecting people and property from Mother Nature or from man-made threats, Saflex interlayers add postbreakage safety and security to laminated glazing applications. Unlike monolithic annealed glass, properly designed glazing made with Saflex interlayers reduces the risk of cutting and piercing injuries from broken glass because the glass tends to adhere to the interlayer after impact. By holding broken glass in place, interlayers provide protection from dangerous flying or falling glass fragments and help keep the system integral once broken—protecting the building envelope.

Globally, architects and designers rely on these protective interlayers to help meet regional standards and norms for safety, bomb blast, ballistics, forced entry, acoustic damping, and UV screening applications. With superior protection and consistent manufacturing, Saflex Clear PVB in laminated glass is clearly a safer solution as the selection of glass for your next project.

Product benefits

-  Protects building occupants and pedestrians from flying and falling glass shards after accidental breakage
-  Provides security through burglary and forced-entry resistance and ballistics and bomb blast protection
-  Provides severe windstorm and debris-impact resistance
-  Reduces the transmission of unwanted sound into a building's environment or between walls

Applications

- Interior:** Partitions, doors, windows, skylights, furniture, balustrades, retail shelving, flooring
- Exterior:** Doors, windows, curtain walls, wall coverings, and overhead glazing



Saflex Clear performance properties

Technical data	Property	Test method	Units	Test conditions	Saflex® Clear interlayer
Physical ^a	Specific heat	ASTM E1269	joules/kg • °C	50°C	1980
	Specific gravity	ASTM D792	g/cm ³	23°C	1.07
	Hardness	ASTM D2240	Shore D	Cut/stacked to 12.5 mm	52
Mechanical ^a	Elongation at failure	ISO 527-3	%	23°C/50% RH 50 mm/min	266
	Young's modulus of elasticity ^b (E)	Calculated	MPa	20°C/3 sec	42
	Poisson's ratio	ASTM D638	—	23°C/50% RH	0.5
	Shear storage modulus ^b (G')	Calculated	MPa	20°C/3 sec	14
	Tensile strength	ISO 527-3	MPa	23°C/50% RH 50 mm/min	25
Thermal	Coefficient of thermal expansion ^a	ASTM D831	10–6/°C	30°–100°C	155
	Conductivity, thermal, K ^a	ASTM F433	W/m/(m ² °C)	65°C	0.2
Solar and optical ^c	Haze	ASTM D1003	—	3-mm clear	<1
	Refractive index	ASTM D542	—	23°C	1.478
	Yellowness index	ASTM E313	—	3-mm clear	<1
	Solar transmittance	NFRC 300 ISO 9050 EN410	D65	3-mm clear	0.72
	Visible transmittance	NFRC 300 ISO 9050 EN410	D65	3-mm clear	0.89
	UV screening	Calculated	300–380 nm	3-mm clear	>99%

^aData as measured/calculated for nominal 0.76-mm Saflex Clear RB formulation interlayer and represent typical values; other formulations may differ.

^bAdditional values for shear and Young's modulus are available for select temperatures and durations at www.saflex.com.

^cData as measured/calculated for laminate with 3-mm clear glass/interlayer/3-mm clear glass.

Saflex Clear product offering

Product	Thickness (mm)	Lengths (m) [*]	Widths (cm) [*]	Form	Color
RB11	0.38	450–1500	100–322	Interleaved/refrigerated	Clear
RA41/RB41	0.76	247–790	80–322	Interleaved/refrigerated	Clear
RA61/RB61	1.14	167–134	160–322	Interleaved/refrigerated	Clear
RA71/RB71	1.52	125–400	100–322	Interleaved/refrigerated	Clear

^{*}Range of available widths and lengths

Consult your Saflex representative for availability in the region in terms of width, length, and form.

Architects and designers trust Saflex

Around the world, architects and designers trust Saflex when performance and safety are their most critical concerns. The reason for their confidence is simple. No matter what the specifications or performance targets, Saflex interlayer technology delivers advanced glazing performance for demanding applications.



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