

Building performance through material innovation



vnncevn 🕷 snflex 🕷

High-performance interlayers for laminated glass



Saflex[®] Acoustic *Ø*

Enhanced acoustic PVB interlayer Reduces perceived noise by up to 50%

While standard PVB interlayers provide noise reduction capabilities compared to ordinary glass, Saflex Acoustic PVB is the solution for architects specifying glazing systems that require even higher levels of acoustic comfort.

Saflex Acoustic is an advanced

tri-layer system designed to decouple and disseminate sound waves for superior sound damping performance. This patent-pending system targets sounds in the 1000–3000 Hz range, which is the "noise transparency" range that allows the most irritating sounds to penetrate windows.

Window systems utilizing Saflex Acoustic can result in a reduction of up to 10 decibels in the 'transparent' frequency, which equates to a 50% reduction in perceived sound. Applications include:

- Offices and retail centers
- Schools/hospitals/government buildings
- Theaters/museums
- Airports/terminals
- Hotels/condominiums/residential

Saflex[®] Structural

Structural PVB interlayer Designed for strength

Saflex Structural interlayer is a tough, resilient film produced from plasticized polyvinyl butyral (PVB). It is designed specifically as an interlayer for applications where increased interlayer rigidity, edge stability, and high glass adhesion are required relative to standard glazing interlayers.

Due to the stiffness of the Saflex Structural interlayer, laminates can either sustain higher uniform loads with the same glass thickness or the glass thickness can be reduced and still achieve the same loading. When used in combination with strengthened glass, Saflex Structural combines the benefits of a rigid interlayer with the features of glass containment, UV screening, edge stability, clarity, and noise abatement. Applications include:

- Structural glass applications
- Exposed-edge laminates
- Floors/stairs/balconies/canopies
- Clip/captured systems
- Sloped/overhead glazing

Saflex[®] Solar



Solar absorbing PVB interlayer Reducing solar heat gain

Saflex Solar interlayers are high-visible-light -transmittance, infrared (IR) radiation-absorbing interlayers designed to enhance solar heat gain performance. The ideal solar product eliminates transmittance of UV and NIR energy while allowing as much visible light to pass through as possible.

Saflex Solar is the PVB formulation of choice for applications where coated glass may not be available for solar control, uniform angular color is desired, edge deletion may be visible, or glass needs to be bent and laminated while delivering solar heat gain control. Two options are available in Saflex Solar. Saflex Solar SG is our highest-performing Solar PVB interlayer and requires strengthened glass. Saflex Solar SH has a more colorneutral appearance and may be laminated with annealed glass. Applications include:

- Curved glass applications
- Low-reflection glazing
- Premium retail showrooms
- External glazed facades
- Digital signage



Saflex[®] UV

Solar absorbing PVB interlayer Blocks up to 99% of harmful UV rays up to 400 nm

Conventional Saflex PVB interlayers have a 99% UV screening capability to 380 nm. Saflex UV, however, screens 99% up to 400 nm. Saflex UV has the capability to meet or exceed many regulations for laminated safety glazing when properly selected, laminated, and installed. Plus, Saflex UV is specifically formulated to provide exceptional durability when exposed to natural weathering; natural and accelerated exposure testing has indicated exceptional colorfastness, durability, and resistance to delamination when exposed to heat and humidity. Applications include:

- Museums, archives, galleries
- Restaurants, hotels, holiday resorts
- Hospitals
- Day care centers
- Libraries
- Switchable/smart glazing
- Storefronts

Vanceva®

Color PVB interlayer A dynamic palette for decorative glazing

Producing a broad spectrum of colors and moods that are unachievable using stock selections of glass, Vanceva gives architects and designers more creative freedom with glass than ever before. Vanceva color interlayers can be combined to produce more than 17,000 transparent, translucent, or solid color options—including the Vanceva White Collection and an array of natural, warm, serene colors with Vanceva Earth Tones—to help create the desired tone and intensity.

When Vanceva color interlayers are combined with tinted or reflective glass, the design possibilities are nearly limitless. No other interlayer brand delivers the complete spectrum of colors for laminated glass like Vanceva colors. Applications include:

- Curtain walls
- Atriums
- Partitions
- Conference rooms
- Countertops/furniture
- Sculptures



Saflex[®] Storm



Protective PVB interlayer At its best when nature is at its worst

While no single product offers complete protection from hurricanes, typhoons, and violent storms, laminated glass windows, doors, and skylights made with Saflex, Saflex HP, or Saflex Storm protective interlayers can be a critical first line of defense.

In properly designed systems, laminated glass effectively withstands these natural forces to help maintain the critical exterior envelope. If broken by impact from wind-borne debris, the glass fragments bond firmly to the protective interlayer, continuing to safeguard building occupants and contents. Applications include:

- Windows
- Doors
- Skylights



Saflex Structural, Acoustic, and Clear interlayers

University of Guadalajara Performing Arts Center—Guadalajara, Mexico Vanceva White Collection

Gusto Gelato—Perth, Australia Saflex Solar and Vanceva color interlayers

Amazon Headquarters—Milan, Italy, Saflex® Structural and Acoustic interlayers

Tools | Resources | Inspiration

SoundPro

This proprietary software, developed by Eastman, is intuitive and flexible tool that provides performance data for tested glass configurations and allows for estimates on custom glass configurations. www.saflex.com/soundpro

StructuralPro

This proprietary software, developed by Eastman in conjunction with industry glass experts, is based on the methodologies of European (EN) and international (ASTM and ISO) standards for glass characteristics and design. www.saflex.com/structuralpro

Vanceva Color Selector

Architects and designers can explore the unlimited color combinations available using the Vanceva color system for laminated glass. Within the virtual color selector, you can find the closest match to RAL, Pantone, or NCS colors. wwww.vanceva.com/color-selector

Additional resources:

- Gallery
- Samples
- Technical center
- How to specify
- Where to buy

Available online at **saflex**.com or **vanceva**.com.

Architects and designers trust Saflex[®] and Vanceva[®].

Around the world, architects and designers trust Saflex and Vanceva when safety, performance, and comfort 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.

Contact us saflex@eastman.com

Although the information and recommendations set forth herein are presented in good faith, Eastman Chemical Company ("Eastman") and its subsidiaries make no representations or warranties as to the completeness or accuracy thereof. You must make your own determination of its suitability and completeness for your own use,

for the protection of the environment, and for the health and safety of your employees and purchasers of your products. Nothing contained herein is to be construed as a recommendation to use any product, process, equipment, or formulation in conflict with any patent, and we make no representations or warranties, express or implied,

that the use thereof will not infringe any patent. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS

OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS AND NOTHING HEREIN WAIVES ANY OF THE SELLER'S CONDITIONS OF SALE.

Safety Data Sheets providing safety precautions that should be observed when handling and storing our products are available online or by request. You should obtain and review available material safety information before handling our products. If any materials mentioned are not our products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be observed.

© 2020 Eastman. Eastman brands referenced herein are trademarks of Eastman or one of its subsidiaries or are being used under license. The ® symbol denotes registered trademark status in the U.S.; marks may also be registered internationally. Non-Eastman brands referenced herein are trademarks of their respective owners.

