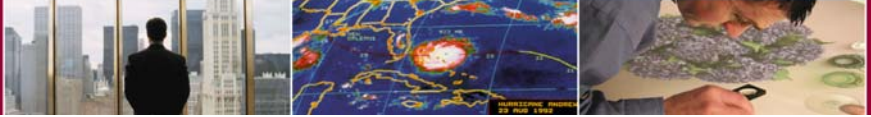


DuPont™ SentryGlas® Expressions™

DuPont Glass Laminating Solutions

Product Information



decorative interlayers (Patent pending)

BACKGROUND INFORMATION

What is SentryGlas® Expressions™?

DuPont™ SentryGlas® Expressions™ is a new decorative glass manufacturing concept which has grown out of two of DuPont's core technologies: digital inks (and ink jet printing); and our materials and technologies for glass laminating, to serve architectural and automotive safety glass markets.

Laminated safety glass consists of a multilayered sandwich of glass, with a strong polymer interlayer for adhesion and impact toughness. The result is glass that holds together after accidental breakage, maintaining a barrier and helping prevent injuries and property damage.

Printing onto the safety glass interlayer before it is laminated results in an embedded image, safe from harm.

DuPont scientists have designed proprietary inks and interlayers that work with each other to optimize safety, image quality, lightfastness and glass durability.



Photographic image quality and a rich color palette are demonstrated in a feature wall using DuPont™ SentryGlas® Expressions™ decorative interlayers.

How it Works

DuPont™ SentryGlas® Expressions™ interlayers are printed using high-resolution ink jet printers with specially formulated inks to create an image-carrying safety glass interlayer. This interlayer is then shipped to a glass laminator who completes the glass and adds any finishing touches required for the glass or its installation.

Printing onto the interlayer is fast, efficient and versatile. DuPont can generate art proofs in a day or two (not weeks as is typical with other imaging processes). And if alterations are needed, the image can be changed easily, almost as quickly as you make the request.

DuPont™ SentryGlas® Expressions™ accurately reproduces virtually any design you wish to put in glass.

Advantages versus Other Decorative Glass Choices

With DuPont™ SentryGlas® Expressions™, you're not limited to stock colors or screens. It uses a full-color palette, and allows continuous tones or tonal shifts in any image you can imagine.

The technology is especially versatile when reproducing subtle differences within an image for design effect. Graduated colors and combinations of text and colors can be assembled and adjusted in the original artwork, and printed onto the interlayer much like any other high-resolution printing.

And while DuPont™ SentryGlas® Expressions™ can be visually dramatic, it also is strong and practical ... using proven interlayer technology to meet safetyglass code requirements.

Production time is surprisingly fast versus other methods of making decorative glass, because DuPont applies direct digital printing technology.

A Choice in Transparency

DuPont™ SentryGlas® Expressions™ lets you create a wide range of transparency levels within a single laminate pane. It's as versatile as your digital image, so you can have solid colors or high density art or photography in one part of the image and complete clarity elsewhere. You can also create art for 100 percent coverage, but that is "ghosted" back for special effects and more transparency. With DuPont™ SentryGlas® Expressions™, it's easy to achieve nearly anything your mind imagines.

Choices for the base interlayer include clear, translucent white and soft white, for controlling how much background can be seen through the glass, and how much whiteness will exist in the image or possible backlighting for dramatic effect.

Beautiful Textures the Easy Way

Many designers are familiar with the difficulty and expense of putting such things as rice paper, fabric and metal grids between glass to achieve a textured or geometric look. With DuPont™ SentryGlas® Expressions™, they can digitize such textures and print them into the glass for the same effect, avoiding the risk or expense of trying to place and sandwich real materials.

High Resolution Imaging

Scaling, Resolution and File Size

Usually, image files are best scaled at 1:10 for easy handling; however, other scaling factors are acceptable. For high-quality printing, raster image files generally should be 150 - 200 pixels per inch (60 – 80 pixels per cm) at final production size. It is better to provide as high a resolution as practical, and with minimal compression.

Electronic file sizes should generally be no more than 250 MB, but greater than 50 MB. Acceptable formats include PC- or Macintosh-based Photoshop, Illustrator, and most other common image originating programs.

DuPont will provide high-end image scanning services if desired, and can assist in image manipulation and tiling, depending on your needs.



People can experience unique environments in decorative safety glass thanks to DuPont™ SentryGlas® Expressions™ decorative interlayers.

Image Dimensions and Print Resolution

We prefer that the maximum final image size be 62 in. x 135 in. (1575 mm x 3430 mm) or less. Larger sizes may be available upon request. No size is too small.

Digital printing onto the SentryGlas® Expressions™ interlayer is performed using large format ink jet equipment capable of achieving print resolution of up to 1440 dots per inch.

For more information about DuPont™ SentryGlas® Expressions™:

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