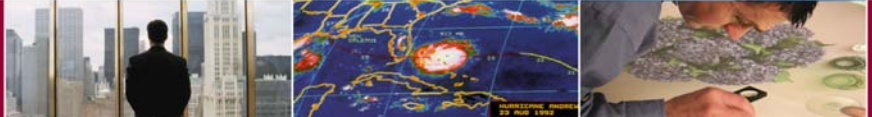


DuPont™ SentryGlas® Expressions™

decorative interlayers (Patent pending)

DuPont Glass Laminating Solutions

Product Information



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 can 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 may be assembled and adjusted in the original artwork, and printed onto the interlayer much like any other high-resolution printing process.

And while DuPont™ SentryGlas® Expressions™ can be visually dramatic, it also is strong and practical ... using proven interlayer technology to meet safety glass 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 or have it "ghosted" back for special effects and more transparency. With DuPont™ SentryGlas® Expressions™, it is easy to achieve nearly anything your mind imagines.

Choices for the base interlayer include clear, translucent white and soft white. This feature allows for control of how much background can be seen through the glass and how much whiteness will exist in the image (backlighting is also possible to create dramatic effects).

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™, such textures can be digitized and printed onto the glass interlayer 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 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.

For more information about DuPont™ SentryGlas® Expressions™:

DuPont Worldwide

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Disclaimer: The technical data contained herein are guides to the use of DuPont materials. The advice contained herein is based upon tests and information believed to be reliable, but user should not rely upon it absolutely for specific applications because performance properties will vary with processing conditions. It is given and accepted at user's risk and confirmation of its validity and suitability in particular cases should be obtained independently. The DuPont Company makes no guarantees of results and assumes no obligations or liability in connection with its advice. This publication is not to be taken as a license to operate under, or recommendation to infringe, any patents.

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DuPont prefers the client provide print-ready digital files; however, we 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 94 in. by 168 in. (2,390 mm x 4,270 mm) or less. Larger sizes may be accommodated 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 1,440 dots per inch.

