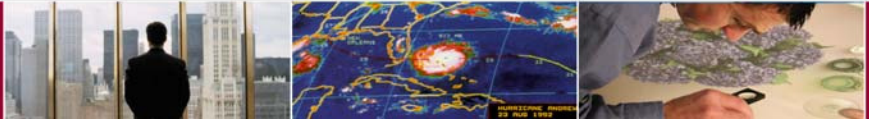


DuPont™ SentryGlas® Expressions™

decorative interlayer (Patent Pending)

DuPont Glass Laminating Solutions

Product Information



Tests show excellent printed image lightfastness

Lightfastness is a term used in the print industry to describe image resistance to fading. The main factors that contribute to fading are light, humidity and pollutants such as ozone or smoke. SentryGlas® Expressions™ printed interlayers are laminated to glass, which protects the embedded image from pollutants and humidity. The proprietary interlayer also blocks the transmission of UV rays that can contribute to fading.

The pigments chosen for SentryGlas® Expressions™ printed interlayers are also used in excellent weathering automotive and architectural paints.

To test lightfastness of SentryGlas® Expressions™ printed interlayers, DuPont has placed printed, laminated samples in a sunlight-intensifying test apparatus located in the Arizona desert (see illustration, right). To date, SentryGlas® Expressions™ has achieved the equivalent of 10 years of lightfastness in the accelerated testing. It is expected to demonstrate many additional years as testing continues.

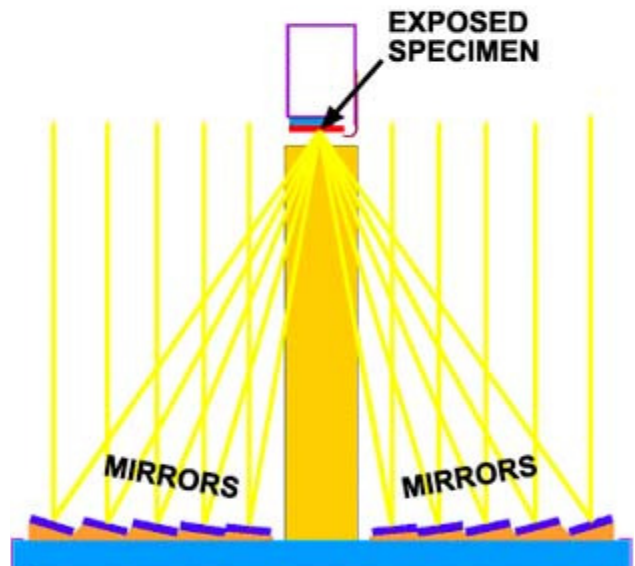
This data demonstrates that these pigments should have limited fading or discoloration for at least 10 years of exposure. Color changes during this time would not be noticeable by an ordinary observer without an unweathered sample for direct comparison.



Lightfastness Test Criteria

- Light Source: Arizona Desert, concentrated sunlight
- Test Protocol: ASTM G90 cycle 2
- Fade Criteria: ΔE calculated using CMC* (1:1) formula
- Measurements: $< 2.8 \Delta E$ for 10-yr period

*The CMC formula is a modification by the Color Measurement Committee of the Society of Dyer and Colourists to the color space and color difference calculations determined by the CIE Colorimetry Committee. The purpose of the modification is to correlate visual acceptability to instrument-measured color changes. We use the 1:1 CMC formula, which is considered the perceptibility form of the equation.



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The technical data contained herein are guides to the use of DuPont safetyglass interlayers. The advice contained herein is based upon tests and information believed to be reliable, but users 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.

CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see DuPont Medical Caution Statement, H-50102.

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