

AURA[®] 139 Flexicast[™] Vinyl Film (Fluorescent Yellow-Green)

Product Code: 0139FC-13 Product Data Bulletin

Product Overview

Aura Optical Systems' AURA[®] 139 Flexicast[™] Fluorescent Yellow-Green Vinyl Film is a premium cast vinyl adhesive film intended to provide enhanced visibility to signs, graphics or vehicle markings, especially during low light hours of dusk or dawn. Unlike many competitive products, which often completely fade to white in a relatively short time frame, AURA[®] 139 Flexicast[™] will retain a non-fluorescent yellow color after the fluorescent appearance fades. As such, the product can often be utilized for longer time frames as a non-fluorescent film even after most of the fluorescence has faded.

Physical Characteristics & Properties

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| Durability ¹ | Up to 3-years for vertical exposure. The fluorescent appearance will typically fade to a non-fluorescent color within this time frame. |
| Vinyl Face | 150µm Cast Vinyl Film (6.0 mils) |
| Total Thickness | 195µm (7.8 mils), excluding release liner |
| Adhesive | Permanent Acrylic Adhesive. From many application surfaces, the adhesive allows for temporary removal and reapplication during product installation. |
| Adhesive Bond Strength | > 3.5 Lbs/in (15 N/25mm) for 180° peel test from aluminum, 24 hour dwell |
| Release Liner | Poly-Coated Paper Liner |
| Application Temperature | 15°C (60°F) minimum |

¹ Actual color and product durability will depend upon the specific exposure, climate conditions, and proximity to the equator. For example, durability in Southern USA / Southern European climates will be shorter. Horizontal exposure is not recommended and may significantly diminish color and product durability.

Cutting & Application Guidelines

AURA[®] 139 Flexicast[™] can be computer sign cut on a wide variety of industry plotters. For best results, use radius corner fonts. Adjust cutting knife pressure to cleanly cut through the face film without penetrating the release liner. A 30° degree knife blade works best. The product should be conditioned above 15°C (60°F) for at least 24-hours prior to conversion.

After cutting, store sheets flat. Carefully weed the film to avoid damaging any cut letters or symbols. Avoid rolling or sharply bending the film as this may cause the release liner to separate from the adhesive.

Prior to the application, the intended substrate should be thoroughly cleaned. The surface should be free of any rust, dirt, loose paint, or other contaminants. Painted surfaces should be thoroughly cured and dried. Do not apply to freshly waxed surfaces.

A transfer tape can be applied using a hand-roller, hand-squeegee, or through the use of a squeeze roll laminator. If applying transfer tape by hand, always work from the center towards the outside of the sheet in both directions to avoid bubbles or wrinkles in the film. After application to the substrate, carefully remove the transfer tape at as low an angle as possible. After removal of the transfer tape, reapply pressure over the film to ensure proper adhesion.

Product Usage

AURA[®] 139 Flexicast[™] can be used for signing, graphics, and vehicle markings. AURA[®] 139 Flexicast[™] is not intended for full vehicle wrapping applications, but is designed for relatively flat surfaces or gentle contours and curves. The user should thoroughly test the suitability of the product for their end application. The product contains components that may migrate under certain conditions from the product into adjacent materials. Similarly, certain substrates (such as automotive paints or other coatings) may contain components that can migrate from the substrate into the



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Product Usage (continued)

adhesive. Any form of such migration could potentially lead to adhesion issues. In severe instances, component migration may lead to the staining or discoloration of adjacent surfaces.

If other vinyl or adhesive-backed materials are to be applied over the surface of the AURA® 139 Flexicast™ product, the user should thoroughly test the compatibility of any such materials with AURA® 139 Flexicast™. As referenced above, migration of components between layers may potentially lead to adhesion or other issues.

Roll Sizes

AURA® 139 Flexicast™ Fluorescent Vinyl Film is available in widths up to 1.22m (48 inches) in a variety of roll lengths.

Storage


Store in a cool, dry area which is free from excessive moisture or exposure to direct sunlight / ultraviolet light. Use within 1-year of receipt of the product. Store rolls in original shipping carton.

Warranty Information

The information, technical data, and statements made herein are believed to be reliable, but the accuracy or completeness thereof is not guaranteed and should not be construed as a warranty or representation for which Aura Optical Systems assumes legal responsibility. All Aura Optical Systems products are sold with the understanding that the Purchaser has independently determined the suitability of such products for its purposes.

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