

# AURA<sup>®</sup> 127 Reflective Vinyl

Product Code: 0127

## Product Data Bulletin

### Product Overview

Aura Optical Systems' AURA<sup>®</sup> 127 Reflective Vinyl is an enclosed lens retroreflective vinyl intended for use on commercial signing and vehicle graphics applications. AURA<sup>®</sup> 127 features a cast vinyl face film, which allows for exceptional printing results on a variety of digital printers. It also features a high-performance adhesive designed for OEM automotive paint surfaces, which can be removed cleanly from most paint surfaces through the use of gentle heat. †

### Key Features

- Similar daytime and nighttime appearance
- Retains retroreflectivity when wet
- Digitally printable on a variety of printer systems
- Computer sign cuttable
- High performance adhesive designed for OEM automotive paint surfaces †

### Physical Characteristics & Properties

Durability	Up to 7-years, when properly converted and installed in a vertical position
Retroreflective Elements	Glass beads (Enclosed lens)
Film Thickness	150µm (approximately 6.0 mils) (excluding release liner)
Face Film	Cast vinyl
Adhesive	50µm (2 mils) Permanent pressure-sensitive adhesive
Release Liner	Poly-coated paper liner
Application Surface	Flat surfaces or gentle curves. The adhesive is designed for aluminum and various painted metals. Not recommended for unpainted stainless steel. †
Application Temperature	15°C (60°F) minimum

† Suitability of the product for both adhesion and removability from an application surface should always be tested by the user prior to application.

### Color Availability

Product Code	Color
0127-00	White
0127-01	Yellow
0127-02	Red

Other colors available upon request.

### Retroreflection

Typical Coefficient of Retroreflection at 0.2° Observation Angle / -4° Entrance Angle.

Color	R <sub>A</sub> (cd/lx/m <sup>2</sup> )
White	85
Yellow	60
Red	20

### Application & Conversion

AURA<sup>®</sup> 127 Reflective Vinyl can be printed with a wide variety of digital ink systems. Additionally, AURA<sup>®</sup> 127 can be printed with both solvent-based screen inks as well as many UV inks. Compatibility and adhesion characteristics of an ink should always be tested through a test print. To maintain high levels of retroreflection, transparent inks should be utilized.

Sheeting should be conditioned above 15°C (65°F) for at least 24-hours prior to printing, lamination, or application.

If over-laminating to protect a digital print, a premium cast gloss over-laminate film is recommended. Lamination should occur only after the printed graphics are completely dry. It is best to allow the graphics to dry overnight. Use only cold lamination methods. Ensure lamination is wrinkle free and that the over-laminate film enters the nip without any wrinkles. If wrinkles occur, the nip pressure setting may be too high. Avoid high tensions on either the printed reflective film or the over-laminate film. After lamination, the material should lay flat without any curling. If curling is present, the tensions or nip pressures may be too high.



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## Application & Conversion (continued)

Application surfaces must be clean and free of dust, rust, oils, grease or other contaminants. Application should occur using a squeeze roll applicator or by hand using a firm rubber roller or plastic squeegee. Apply firm pressure during application to bond the adhesive to the substrate. Always apply pressure from the center of the graphic towards the edges to minimize air entrapment or bubbles. Use a dry application method. Do not use detergent, water, or any commercial application liquids to position the reflective sheeting. A heat gun may assist conformability of the film around curved surfaces.

AURA® 127 is intended for use on flat sign surfaces or gentle curved surfaces. Slight tenting may occur around rivets, sharp ridges, or some complex curves.

If applied to a vehicle, please note that some automotive paints may continue to out-gas for some time, which could disrupt application of the sheeting. Be sure painted surfaces are fully cured prior to application of the product.

AURA® 127 Reflective Vinyl can be computer sign cut using a variety of different industry plotters.

AURA® 127 can be removed from many OEM automotive paint surfaces by gently heating the film near 130°F (55° C). The product may not necessarily remove as a single large piece, but instead can often be removed in smaller segments. The ultimate degree of removability is dependent upon many factors, including the age of the decal, the application surface, or the presence of an overlaminated film.

## Roll Sizes

AURA® 127 is available in 45.7 meter (50 yard) rolls in different widths up to 1240mm (48 inches).

## Storage


Store in a cool, dry area. Use within 1-year of receipt of the product. Store rolls in original shipping carton or suspend horizontally from a rod through the core.

## Warranty Information

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