

# AURA<sup>®</sup> 106 Flexible Commercial Grade

Product Code: 0106

Product Data Bulletin

## Product Overview

Aura Optical Systems AURA<sup>®</sup> 106 Flexible Commercial Grade sheeting is a highly flexible and digitally printable retroreflective sheeting. Key applications include reflective vehicle wraps, vehicle markings, promotional signing, or advertising graphics. AURA<sup>®</sup> 106 can be digitally printed with many different solvent-based printers. It is conformable over ridges and curves and is supplied with a permanent pressure-sensitive adhesive and easy-release paper liner. It exhibits a very good bond to the most common substrates including painted steel and aluminum.

## Key Features

- Capable of use for reflective vehicle wraps
- Similar daytime and nighttime appearance
- Retains retroreflectivity when wet
- Conformable around curves and other irregular surfaces
- Printable with a variety of digital printers or ink systems

## Color Availability

Product Code	Color
0106-00	White
0106-01	Yellow
0106-02	Red
0106-05	Blue
0106-07	Green

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	65
Yellow	40
Red	12
Blue	5
Green	7

## Physical Characteristics & Properties

Retroreflective Elements	Glass beads (Enclosed lens)
Film Thickness	135µm (approximately 5.5 mils) (excluding release liner)
Face Film	Flexible Urethane
Adhesive	50µm (2 mils) Permanent pressure-sensitive adhesive
Release Liner	Poly-coated paper liner
Application Surface	Painted metals. Can be applied over curves or ridges. Wet application method is not recommended. Not recommended for unpainted stainless steel.
Application Temperature	15°C (60°F) minimum
In Use Temperature Range	-20° to 70°C (-4° to 160°F)

## Exterior Durability

When properly applied to a vertical surface, AURA<sup>®</sup> 106 will exhibit outdoor durability from 1 to 3-years. The actual product life will depend upon a variety of factors, including the degree of southern versus northern exposure<sup>†</sup>, specific climate conditions, and the level of continuous outdoor use. Using a protective high-gloss over-laminate film can extend the life of the product. Application to a horizontal surface can reduce the durability of the product.

<sup>†</sup> For the northern hemisphere.

## Application & Conversion

AURA<sup>®</sup> 106 Flexible Commercial Grade can be screen printed or digitally printed with a wide variety of ink systems. Vinyl-based solvent inks and other solvent-based inks are most suitable. 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.



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## Application & Conversion (continued)

When printing with solvent-based digital printers, best results are typically obtained by increasing the temperature settings on the printer.

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

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. Use a dry application method. Do not use detergent, water, or any commercial application liquids to position the reflective sheeting. Use of heat may be necessary to optimize conformance around sharp ridges or curves.

Slight tenting may occur around rivets, sharp ridges, or some complex curves.

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.

## Roll Sizes

AURA® 106 Flexible Commercial Grade 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

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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