

AURA[®] 196 Fluorescent Orange Prismatic Sheeting

Product Code: 0196-14

Product Data Bulletin

Product Overview

Aura Optical Systems' AURA[®] 196 Fluorescent Orange Prismatic Sheeting is a microprismatic retroreflective sheeting for traffic signing, temporary work zone signing, delineators, and other traffic safety applications. AURA[®] 196 Fluorescent Orange has a cellular product construction and meets the performance requirements of ASTM D-4956 Type IX, ASTM D-4956 Type IV, AASHTO M268 Type B and Type C, and many other industry specifications. Available with two different adhesive options.

Physical Characteristics & Properties

Durability	Up to 3 years when properly installed. Vertical exposure only.
Retroreflective Elements	Microprisms
Adhesive	Permanent, acrylic pressure sensitive adhesive. †
Recommended Substrates	Flat sign panels made from aluminum, galvanized steel and other flat sign substrates. Not recommended for wood substrates. A second high-tack adhesive option is available for use on certain plastic substrates. †
Film Thickness	20 mils (500 microns) (excludes the release liner)
Application Temperature	18°C (65°F) minimum

† Suitability of the product for a specific sign substrate should always be tested prior to sign fabrication. Aura Optical Systems offers a variety of testing services to assist with such evaluations.

Key Features

- Bright daytime color to maximize daytime visibility.
- Microprismatic optical elements aligned in multiple directions for a more uniform reflective appearance across different rotations.
- Two adhesive options for bonding to many different sign substrates.

Typical Retroreflection

Typical Coefficient of Retroreflection when Measured per ASTM E-810. Average of 0° and 90° Rotations. (cd/lx/m²)

Color	Observation Angle	Entrance Angle	
		-4°	30°
Fluor. Orange	0.2°	220	115
	0.33°	115	85
	0.5°	100	70
	1.0°	30	20



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Daytime Color

The daytime color of AURA® 196 Fluorescent Orange sheeting will fall within the color boundaries identified below by four pairs of chromaticity coordinates (CIE 1931 Standard Colorimetric System) when measured with Standard Illuminant D65 using a 0/45 (45/0) geometry instrument.

Color Boundaries:

Color	1		2		3		4		Cap Y%	
	x	y	x	y	x	y	x	y	Min	Max
Fluor Orange	.583	.416	.535	.400	.595	.351	.645	.355	25	--

Application Guidelines

The following is a short overview of application guidelines. Please refer to the various Technical Data Bulletins supplied by Aura Optical Systems for a complete set of procedures.

AURA® 196 Fluorescent Orange should be conditioned above 18°C (65°F) for at least 24-hours prior to application. Application should occur using a squeeze roll applicator with a firm rubber roller. Hand application is not recommended.

AURA® 196 is designed primarily for application to flat surfaces. Sign substrates should be cleaned prior to application. Wipe surfaces with rubbing alcohol (or similar solvent cleaner) and allow the surface to completely dry prior to application. Wet application method is NOT recommended.

After lamination, finished signs should be stored indoors at ambient temperatures for at least 24 hours prior to installation or exposure to outdoor environments. Store finished signs on edge in an upright position. Do not stack in outdoor environments or allow sign packages to become saturated with water. Store sign packages indoors in an upright position.

Storage


Store in a cool, dry area. Use within 1-year of receipt of the product.

Warranty Information

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