

AURA® 135-HY Conspicuity Tape

Product Code: 0135-HY (Hybrid Polymer)

Product Data Bulletin

Product Overview

Aura Optical Systems' AURA® 135-HY Conspicuity Tape is a microprismatic retroreflective tape designed for use on the sides and rear of trucks, trailers, and other vehicles. It conforms to the requirements of the FMVSS 108 standard and contains the DOT-C2 marking. It contains a special blend of polymers for exceptional strength and impact resistance while still retaining enough flexibility for easy application.

Key Features

- Metalized, single-ply construction to prevent edge-lifting or delamination
- No edge sealing required
- Special Hybrid Polymer™ face film for strength and impact resistance
- Aggressive high-tack adhesive
- Durable acrylic outer-shell for extended outdoor life
- Tiled microprismatic optics

Physical Characteristics & Properties

Durability	Up to 7-years when properly installed. Vertical application only.
Retroreflective Elements	Microprisms, metalized with vacuum-deposited aluminum
Tape Thickness	13 mils, excluding release liner
DOT-C2 Marking	DOT-C2
Face Film	Proprietary blend of polymers
Application Surface	Aluminum. Painted metals. Wet application method is not recommended. Always test compatibility of adhesive with the intended application surface.
Application Temperature	15°C (60°F) minimum

Covered by one or more patents / pending applications. Refer to www.auraopticalsystems.com/images/patents.pdf for more information.



Retroreflection

AURA® 135-HY Conspicuity will yield the reflectivity levels listed in the tables below when tested in accordance with ASTM E-810. 0° and 90° rotation measurements are averaged.

Typical Coefficient of Retroreflection (cd/lx/m²)

Color	Observation Angle	Entrance Angle		
		-4°	30°	45°
White	0.2°	750	350	200
	0.5°	125	85	50
Red	0.2°	200	85	50
	0.5°	35	20	12

Minimum Requirement per FMVSS 108

Coefficient of Retroreflection (cd/lx/m²)

Color	Observation Angle	Entrance Angle		
		-4°	30°	45°
White	0.2°	250	250	60
	0.5°	65	65	15
Red	0.2°	60	60	15
	0.5°	15	15	4

Color and Size Configurations

Standard roll sizes are 2" x 50 yards in the following color and stripe configurations. Kiss-cut rolls and die-cut strips are available.

Product Code	Color
0135-HY-00W	White
0135-HY-02	Red †
0135-HY-66	6" Red / 6" White (Alternating Pattern)
0135-HY-117	11" Red / 7" White (Alternating Pattern)

† The solid red color does not contain the DOT-C2 marking.

Customization & Logos

AURA® 135-HY Conspicuity Tape can be customized for specific end-user requirements, including corporate logos and modified adhesive systems.

Aura Optical Systems, L.P.

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Daytime Color

The color of the tape shall fall within the 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	1		2		3		4		Cap Y%	
	x	y	x	y	X	Y	x	y	Min	Max
White	.303	.300	.368	.366	.340	.393	.274	.329	15	--
Red	.648	.351	.735	.265	.629	.281	.565	.346	2.5	11

Application Guidelines

Aura Optical Systems' AURA® 135-HY Conspicuity Tape should be applied only to clean and dry surfaces when temperatures are above 60°F. Wipe surfaces with rubbing alcohol (or similar solvent cleaner) and allow the surface to completely dry prior to application. Wet application methods should not be utilized. Apply only to surfaces free of rust, dirt, loose paint, or other contaminants.

During application, use a hand squeegee or hand roller to apply pressure to create a permanent bond. Starting from one end of the conspicuity striping, work from the center of the tape towards the edge to push air out from under the tape. It may be necessary to wrap the hand squeegee in a cloth to avoid scratching the surface.

The user should always test compatibility of the tape with the intended application surface. For freshly painted surfaces, the paint should be allowed to cure for at least 48-hours prior to application.

Tape should be applied to flat or gently curved surfaces. Application around sharp curves or complex surfaces is not recommended. Bending the tape around a corner or other sharp angles may cause the tape to lift. Additionally, tape should be trimmed so that it does not overhang off the application surface.

Application over large rivets or sharp corrugations is not recommended. For application over smaller rivets (< 1/2 inch), use a punching tool, such as an arch punch or belt punch, to cut the conspicuity tape around the rivet surface.

Storage


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

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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