

AURA® 191T Fluorescent Yellow School Bus Conspicuity Tape

Product Code: 0191T-11SB Product Data Bulletin

Product Overview

Aura Optical Systems' AURA® 191T Fluorescent Yellow Conspicuity Tape is a retroreflective microprismatic tape designed to outline emergency exits and the sides and rear of school buses. It conforms to the requirements of FMVSS 217 and FMVSS 131. Although the tape has a metalized production construction, the fluorescent yellow color creates a more vibrant daytime appearance and allows for enhanced visibility at dusk and dawn.

Key Features

- Metalized, single-ply construction to prevent edge-lifting or delamination
- No edge sealing required
- Aggressive high-tack adhesive
- Tiled microprismatic optics for visibility from multiple viewing angles
- Fluorescent color enhances daytime visibility

Retroreflection

AURA® 191T Fluorescent Yellow Conspicuity Tape will yield the reflectivity levels listed in the tables below when tested in accordance with ASTM E810. 0° and 90° rotation measurements are averaged.

Typical Coefficient of Retroreflection (cd/lx/m²)

Color	Observation Angle	Entrance Angle	
		-4°	30°
Yellow	0.2°	500	325
	0.5°	110	70

Minimum Requirement per FMVSS 131 and 217
Coefficient of Retroreflection (cd/lx/m²)

Color	Observation Angle	Entrance Angle	
		-4°	45°
Yellow	0.2°	170	100
	0.5°	62	45

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

Physical Characteristics & Properties

Durability †	Up to 7-years when properly installed. Vertical exposure only. Horizontal installation is not recommended.
Retroreflective Elements	Microprisms, metalized with vacuum-deposited aluminum
Tape Thickness	Approximately 16.5 mils (415µm) (excluding release liner)
Face Film	Proprietary blend of polymers
Release Liner	HDPE Poly Release Liner
Adhesive	High-tack acrylic adhesive
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

† Durability of the product is dependent upon the installation and usage location of the school bus. Materials in Southern climates of the USA will typically have less durability than in Northern climates.

School Bus Decals

School Bus decals made from AURA 191T Fluorescent Yellow Conspicuity Tape are available as part of the overall school bus product offering. Each decal is 8¾" x 36". The words SCHOOL BUS are printed using Highway Gothic font.



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
Yellow	.479	.520	.446	.483	.512	.421	.557	.442	30	--

Application Guidelines

Aura Optical Systems' AURA® 191T Fluorescent Yellow 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 (< ½ 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

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