

AURA[®] 143 School Bus Conspicuity Tape

Product Code: 0143-SB

Product Data Bulletin

Product Overview

Aura Optical Systems' AURA[®] 143 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 131.

Key Features

- Metalized, single-ply construction to prevent edge-lifting or delamination
- No edge sealing required
- All acrylic construction for extended durability
- Excellent levels of retroreflection from multiple viewing angles
- Retains retroreflectivity when wet
- Can be screen-printed
- Easily cut or punched for rapid installation

Color Availability

Product Code	Color
0143-01	Yellow

Physical Characteristics & Properties

Durability	Up to 7-years when properly installed
Retroreflective Elements	Microprisms, metalized with vacuum-deposited aluminum
Tape Thickness	11.5 mils, excluding release liner
Face Film	Acrylic
Release Liner	HDPE Release Liner
Application Surface	Aluminum. Painted metals. Wet application method is not recommended. Not recommended for unpainted stainless steel.
Application Temperature	15°C (60°F) minimum

Retroreflection

Typical Coefficient of Retroreflection (cd/lx/m²)

Color	Observation Angle	Entrance Angle	
		-4°	30°
Yellow	0.2°	350	185
	0.5°	100	65

Minimum Coefficient of Retroreflection (cd/lx/m²) per FMVSS 217.

Color	Observation Angle	Entrance Angle	
		-4°	30°
Yellow	0.2°	170	100
	0.5°	62	45



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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	.498	.412	.557	.442	.479	.520	.438	.472	12	30

Application Guidelines

Aura Optical Systems' AURA® 143 School Bus 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.

AURA® 143 is not recommended for direct application to unpainted stainless steel. For freshly painted surfaces, the paint should be allowed to cure for at least 48-hours prior to application of the conspicuity tape.

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 reflective material 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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