

AURA[®] 143 Metalized High Intensity Prismatic Grade

Product Code: 0143

Product Data Bulletin

Product Overview

Aura Optical Systems' AURA[®] 143 Metalized High Intensity Prismatic Grade is a microprismatic retroreflective sheeting designed for use on a variety of safety, graphics, or traffic applications where high levels of reflectivity are required in a single-ply product construction.

Key Features

- Metalized, single-ply construction to prevent edge-lifting or delamination
- All acrylic construction for extended durability
- Excellent levels of retroreflection from multiple viewing angles
- Retains retroreflectivity when wet
- Easily cut or punched for rapid installation

Color Availability

Product Code	Color
0143-00	White
0143-01	Yellow
0143-02	Red

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°
White	0.2°	500	250
	0.5°	140	95
Yellow	0.2°	350	185
	0.5°	100	65
Red	0.2°	100	65
	0.5°	35	20

Minimum Coefficient of Retroreflection (cd/lx/m²)

Color	Observation Angle	Entrance Angle	
		-4°	30°
White	0.2°	360	170
	0.5°	95	65
Yellow	0.2°	270	135
	0.5°	62	45
Red	0.2°	65	30
	0.5°	15	10



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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	--
Yellow	.498	.412	.557	.442	.479	.520	.438	.472	12	30
Red	.648	.351	.735	.265	.629	.281	.565	.346	2.5	11

Application Guidelines

Aura Optical Systems' AURA[®] 143 Metalized High Intensity Prismatic Grade 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

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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