

AURA[®] 121E PET Engineer Grade (“printable”)

Product Code: 0121E

Product Data Bulletin

Product Overview

AURA[®] 121E PET Engineer Grade (“printable”) sheeting is an enclosed lens retroreflective sheeting intended for use on signing applications requiring durability of up to 2-years, including traffic signs, warning signs, advertising graphics, or promotional signing. Made with a polyester face film, the sheeting is strong and rugged for demanding short-term signing applications. The polyester face is pre-treated with a thin top-coat for improved printability with many different ink systems. It is supplied with a permanent pressure-sensitive adhesive and easy-release paper liner. Meets the requirements of various industry specifications, including ASTM D-4956 Type 1, EN 12899-1 Class 1, and others.

Physical Characteristics & Properties

Durability	Up to 2-years, when properly converted and vertically installed
Retroreflective Elements	Glass beads (Enclosed lens)
Film Thickness	135µm (approximately 5.5 mils) (excluding release liner)
Face Film	Polyester (PET)
Adhesive	40µm (1.6 mils) Permanent pressure-sensitive adhesive
Release Liner	Poly-coated paper liner
Application Surface	Flat surfaces only such as aluminum. Not recommended for unpainted stainless steel.
Application Temperature	15°C (60°F) minimum

Color Availability

Product Code	Color
0121E-00	White
0121E-01	Yellow

Other colors available upon request.

Retroreflection

Minimum Coefficient of Retroreflection (cd/lx/m²)

Color	Observation Angle	Entrance Angle		
		-4° / 5°	30°	40°
White	0.2°	70	30	10
	0.33°	50	24	9
	0.5°	30	15	5
	2.0°	5	2.5	1.5
Yellow	0.2°	50	22	7
	0.33°	35	16	6
	0.5°	25	13	3.5
	2.0°	3	1.5	1

Roll Sizes

AURA[®] 121E PET Engineer Grade (“printable”) is available in 45.7 meter (50 yard) rolls in different widths up to 1240mm (48 inches).

Storage

Store in a cool, dry area. Use within 1-year of receipt of the product. Store rolls in original shipping carton or suspend horizontally from a rod through the core.

Application & Conversion

AURA[®] 121E can be screen printed with a wide variety of UV-ink, solvent-based, and other screen inks. Acrylic-based or vinyl-based solvent inks are most suitable. Compatibility and adhesion characteristics of an ink should always be tested through a test print.

Sheeting should be conditioned above 15°C (60°F) for at least 24-hours prior to application. Application should occur using a squeeze roll applicator or by hand using a firm rubber roller or plastic squeegee.

AURA[®] 121E can be computer sign cut using a variety of different industry plotters.



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Data Bulletin: 0121E-r1
Mar,201

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