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Specifications

Introduction

REFLOMAX GLODIAN™ EG-7000 series is Acrylic Engineer Grade sheeting. It is durable, high quality enclosed beaded retroreflective sheeting intended for use on signing applications requiring durability of up to 7 years, mainly for temporary and permanent traffic sign.

The product complies with the requirements of ASTM D 4956 Type 1, EN12899-1 Class RA1, GB/T 18833 Class 1.

Color

REFLOMAX GLODIAN™ EG-7000 series is available in white (01), yellow (03), orange (05), red (07), green (09), blue (11), brown (15) and black (18). The sheeting conforms to the daytime color requirements in tables 2 and shall comply with the specifications of ASTM D4956.

Application | Processing

REFLOMAX GLODIAN™ EG-7000 series should be applied to flats surface only such as aluminum. Application temperature is 18°C(64.4°F)~28°C(82.4°F). For other applications, the user is fully responsible for evaluating the suitability of the product, and for any risks associated with that use.

Note

All REFLOMAX GLODIAN™ products are manufactured within an ISO 9001:2015 controlled manufacturing environment

Daytime color specification limits

COLOR	Table 2 - Chromaticity Coordinates (ASTM D495)								Luminance Factor (Y%)
	1		2		3		4		
	x	y	x	y	x	y	x	y	
White	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329	>27
Yellow	0.498	0.412	0.557	0.442	0.479	0.520	0.438	0.472	15 ≤ Y ≤ 45
Orange	0.558	0.352	0.636	0.364	0.570	0.429	0.506	0.404	10 ≤ Y ≤ 30
Red	0.648	0.351	0.735	0.265	0.629	0.281	0.565	0.346	2.5 ≤ Y ≤ 15
Green	0.026	0.399	0.166	0.364	0.286	0.446	0.207	0.771	3 ≤ Y ≤ 12
Blue	0.140	0.035	0.244	0.210	0.190	0.255	0.065	0.216	1 ≤ Y ≤ 10
Brown	0.430	0.340	0.610	0.390	0.550	0.450	0.430	0.390	1 ≤ Y ≤ 9

Retroreflectivity

REFLOMAX GLODIAN™ EG-7000 series exceeds the minimum performance requirements of ASTM D4956 Type I. The required minimum retroreflection values, shown in tables 1, are complied with when measured in accordance with the corresponding specifications using CIE54:1982.

Adhesive

REFLOMAX GLODIAN™ EG-7000 series is permanent pressure-sensitive adhesive.

Product Data

Retroreflectivity for new sheeting (cd/lx/m²) as per ASTM D4956

Observation Angles	0.2°		0.5°	
	-4°	30°	-4°	30°
White	70	30	30	15
Yellow	50	22	25	13
Orange	25	7	13	4
Red	14	6	7.5	3
Green	9	3.5	4.5	2.2
Blue	4	1.7	2	0.8
Brown	1	0.3	0.3	0.2



Application Instruction

Processing instructions for REFLOMAX GLODIAN™ TAC™

This application instruction is to explain proper ways to apply REFLOMAX GLODIAN™ EG-7000 series to traffic sign. Even though it is impossible to explain all aspects that need to be taken into account, this application instruction comprises a large number of useful tips for handling REFLOMAX GLODIAN™ EG-7000 series.

The sign producers who will use REFLOMAX GLODIAN™ EG-7000 series should follow this application instruction to produce their signs in right way for traffic sign according to the following standards : ASTM D 4956 Type 1, EN12899-1 Class RA1, GB/T 18833 Class 1.

Also, specific knowledge and skills of sign produces are prerequisites for the processing of REFLOMAX GLODIAN™ EG-7000 series.

Size & Package

- **Roll Size** 123cm x 45.7m (48.4in x 50yds)
- **Gross** 28.3 kgs (62.4lb)
- **Weight** 24.9 kgs (54.9lb)
- **Packing** 40 rolls per pallet / 320 rolls per 20' container

Storage and Transportation

- Reflective Sheeting should be used within one (1) year after the arrival date.
- Please use PET inner film to tightly pack partially used Rolls, then return it back to the shipping carton. Vertically place the product to avoid any distortion due to substrate buckling or extension by moisture absorption and to avoid pressure that may damage the reflective layer.
- Store the sheeting in a clean, dry place at 20°C(68°F) and 50% R.H. and away from direct sunlight;

Cutting | Plotting

- 1) REFLOMAX GLODIAN™ EG-7000 series can be cut by means of commercial cutting plotter, die-cut plotter.
- 2) It is not recommended to cut several sheets at the same time when cutting by die-cut plotter.
- 3) It is recommended to set up proper pressure and cut proper number of sheets when it's cut by stack cutter.
- 4) It is highly recommended that every cutting process should be carried out with setting up proper process condition made after enough testing done in advance.

Also, please perform enough test in advance considering whether it's suitable for the application or not and performance of product. When you intend to apply products to application above suggested applications, please have a prior consultation with REFLOMAX fully.

Cleaning of the applied products

Surfaces should only be cleaned with clear water, water/isopropanol(80/20%) or diluted soap solution. Please do not use any solvents or abrasive cleaning agents like metal or sand for the cleaning of reflective films. This could cause serious damage on surfaces.



Important

Durability

The durability of REFLOMAX GLODIAN™ EG-7000 series and complete product using them will depend upon substrate selection and preparation, compliance with recommended application procedures, geographic area, exposure conditions, and maintenance. Maximum durability of REFLOMAX GLODIAN™ EG-7000 series can be guaranteed in case of only applications subject to vertical exposure on stationary objects when processed and applied to well-made aluminum pursuant to REFLOMAX's recommendations. Periodic sign inspection and regular sign replacement are strongly recommended that sign owners ensures their own effective service life and any durability warranty, if provided.

Substrate

The user must determine the suitability of any nonmetallic sign backing for its intended use. Applications to unprimed, excessively rough or non-weather resistant surfaces may shorten their performances.

Exposure

Exposure to severe or unusual conditions may deteriorate the performance. Signs in mountainous areas where are covered by snow for a long time may also cause reduced durability. Atmospheric conditions in specific geographic areas may bring about the reduced durability.

Splice

There could be one splice per roll and additional meter will be provided in case of roll with splice.

Warranty

No warranty is given for the purposes other than those listed in the Specifications Sheet or which are not worked subject to REFLOMAX's processing and handling instructions. The durability of the signs will depend upon many factors, including but not limited to substrate selection and preparation, compliance with recommended application guidelines, geographic area, exposure conditions and maintenance of the product and finished sign. Sign failures caused by the substrate or improper surface preparations are not taken the responsibility by REFLOMAX. Please see the full warranty instrument available at www.reflomax.com for further information.

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