Technical Datasheet

Description

GLODIAN™ FXTM-FBTM series is product of Micro-Prismatic Retro-Reflective Material. Micro-Prism Type Material is consisting of millions of durable micro-prisms formed on flexible, UV-stabilized glossy polymeric film.

GLODIAN™ FXTM-FBTM series is a high-quality, digital printable, durable, good tensile strength, type of fabric backing and metalized Micro-Prism side for use on construction and maintenance, utility and incident management applications. It makes the object with GLODIAN™ FXTM-FBTM series highly visible in foul weather and even in wet condition enhancing the safety of drivers in the road.

Product Construction

REFLOMAX GLODIANTM FXTM-FBTM consists of a smooth surface, high gloss, abrasion and weather resistant UV-stabilized microprismatic retroreflective layer

Front & Backing Material

- 1. Front: PVC
- 2. Backing: Fabric (FB)

Reflective

The coefficients of retroreflection(RA) shall be determined in accordance with ASTM E810, and per ASTM E810 the values of 0° and 90° rotation are averaged to determine the RA. The values in Table A are minimum coefficients of retroreflection expressed in candelas per lux per squaremeter (cd/lux/m2). GLODIAN™ FXTM-FBTM sheeting series meets the retroreflective perforace the requirements of ASTM D 4956:2013 Type III

Daytime Color

REFLOMAX GLODIAN™ FXTM-FBTM to the daytime color requirements in Table 2 when tested in accordance with ASTM D 4956 and available in silver.

Impact Resistance

Ambient Temperature: After conditioning a sample for 24 hours at 23°C (73°F) ± 2°C (3°F) and 50% relative humidity, subject the sheeting to an impact of a 1.82 kg (4 lb) weight with a 16 mm (5/8") rounded tip dropped from a 100 in-lb (11.3 N-m) setting on a Gardner variable impact tester, IG-1120, as per ASTM D4956, section S2.2.1. The sheeting shall show no cracking or delamination outside the actual area of impact.

Flexibility

GLODIAN™ FXTM-FBTM meets the flexibility requirements of ASTM D4956, section 6.7 and S2.2.2. The sheeting is sufficiently flexible to show no cracking when bent in one second time around a 3.2 mm (1/8") diameter mandrel.

WeatherabilityGLODIAN™ FXTM-FBTM series has a 3 year warranty under vertical outdoor exposure (color fastness).

Solvent Resistance

GLODIAN™ FXTM-FBTM will not dissolve, blister, or pucker when wiped with a soft cloth wet with kerosene, mineral spirits, turpentine, VM&P Naphtha, 5% HCL NaOH, or methanol.

Shrinkage

A 9" x 9" (229 mm x 229 mm) specimen of the sheeting with liner is conditioned a minimum of one hour at 23°C (73°F) ± 2°C (3°F) and 50% relative humidity. The liner is then removed and the specimen is placed on a flat surface with the adhesive side up. Ten minutes after the liner is removed and again after 24 hours, the specimen is measured to determine the amount of dimensional change. The specimen will not shrink in any dimension more than 0.8 mm (1/32") in 10 minutes and 3.2 mm (1/8") in 24 hours.

Application / Processing

GLODIAN™ FXTM-FBTM was especially developed for traffic control applications. Surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination which could affect the adhesion of the material. Freshly lacquered or painted surfaces must be completely cured. Plastic surfaces need to be free of any emission. The compatibility of selected substrate should be tested by the user, prior to application of the material. For other applications the user is fully responsible for evaluating the suitability of the product, and for any risks associated with that use.

The sheeting should be applied to a smooth, clean, dry surface at temperatures ranging from 10°C (50°F) to 38°C (100°F)

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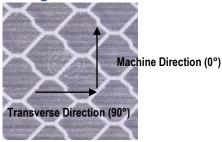
Materials must be applied according to Application Instruction.

Table 1, Minimum Coefficient of Retroreflection (R_A)*

Item	Observation Angles	Entrance Angles	Typical RA
FX-FB White	0.2°	-4°	400

^{*}all values have units of cd/fc/ft2 (cd/lx/m2)

Film Logo Pattern



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Application Instruction

Processing instructions for REFLOMAX GLODIAN™ FXTM-FBTM

The information within this document is based on our knowledge, experience and application tests. Its purpose is to provide suggestions and support to practitioners. REFLOMAX GLODIAN™ FX™-FB™ is product of Micro-Prism type Retro-Reflective Material. Micro-Prism Type Material is consisting of millions of durable micro-prisms formed on flexible, UV-stabilized glossy polymeric film. REFLOMAX GLODIAN™ FX™-FB™ is type of High Gloss Pressure Sensitive Adhesive(PSA) and Metallized Micro-Prism side. REFLOMAX GLODIAN™ FX™-FB™ is producing in a various colors to meet the various needs from many different customers. It makes the objects with REFLOMAX GLODIAN™ FX™-FB™ highly visible in daytime, nighttime, foul weather and even in wet condition enhancing the safety of drivers in the road. REFLOMAX GLODIAN™ FX™-FB™ is supple, conformable and can be easily applied to the winding substrate like construction and maintenance, utility and incident management applications, short- middle term traffic signs, warning, construction/work zone information signs. Traffic Control Sign (Tripod Stand sign), etc.

Size & Packing

Roll Size 122cm x 50m (48" x 50yd)

Packing Size 1,290mm x 280mm x 280mm (50.8" x 11" x 11")

Net Weight 31.12kg (50.9 lb) per roll Gross Weight 33.42kg (55.4 lb) per roll

Storage and Transportation

Store in a cool dry area, preferably at 18°C (64.4°F) -28°C(82.4°F), relative humidity and use within 1 year after date of receipt. Store rolls in their original shipping cartons. Partially used rolls should be returned to their shipping carton. Avoid banding, crating, or stacking signs. Package for shipment in accordance with commercially accepted standards to prevent movement and chafing. Store sign packages indoors on edges. Panels or finished signs must remain dry during shipment and storage. If packaged signs become wet, unpack immediately and allow signs to dry.

Rolled material should be stored in the original carton. The rolls have standard spacers (core plugs) that prevent contact between the roll surface and the carton and thus the formation of pressure marks and surface damage. Please make sure that partly processed rolls are never stored without spacers.

When making the rolls available for processing, it is advisable to use a horizontal suspension system. If the rolls are stored in a vertical, freestanding position, a negative influence on the film's characteristics is not expected. It is crucial to place the roll on the spacer so as to avoid breakage at the edges and contamination.

IMPORTANT NOTICE

Durability

The durability of REFLOMAX GLODIAN™ FXTM-FBTM series and finished product using them will depend upon substrate selection and preparation, compliance with recommended application procedures, geographic area, exposure conditions, and maintenance. Maximum durability of series REFLOMAX GLODIAN™ FXTM-FBTM can be expected in applications subject to vertical exposure on stationary objects when processed and applied to properly prepared aluminum according to REFLOMAX's recommendations. Periodic sign inspection and regular sign replacement are strongly recommended in order for sign owners to establish their own effective service life expectation beyond 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 can shorten the performance of such applications.

Exposure

Exposure to severe or unusual conditions can shorten the performance of such applications. Signs in mountainous areas that are covered by snow for prolonged periods may also have reduced durability. Atmospheric conditions in certain geographic areas may result in 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 purposes other than those listed in the Technical Datasheet or which are not processed according to

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REFLOMAX's processing and handling instructions. The durability of the signs will depend on a variety of 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 the responsibility of Reflomax. Please refer to the full warranty document available at www.reflomax.com for detailed information.

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