

REFLOMAX GLODIAN™

Microprismatic Reflective Film

Technical Datasheet and
Application Instruction

11/Mar/2019

Page 1 of 2

Technical Datasheet

Description

REFLOMAX GLODIAN™ Reflective Film – High Gloss Products are designed for use on safety garments and when properly used, help enhance the visibility of the wearer in nighttime or low-light conditions when illuminated by headlights.

REFLOMAX GLODIAN™ reflective film – high gloss products consist of highly retroreflective microprisms formed on flexible, glossy and UV- stabilized polymeric film. A flexible vinyl film sealed on the backside of the Reflomap™ GLODIAN™ Reflective Film – High Gloss film encapsulates the microprisms and protects the reflective product from dirt and moisture penetration.

Product Construction

GLODIAN™ reflective film consists of a smooth surface, high gloss, abrasion microprismatic retroreflective layer. The film can be sewn and/or high frequency welded.

The following products have certificates available for ANSI/ISEA 107:2010 American National Standard for High-Visibility Safety Apparel and Accessories and EN ISO 20471:2013 European Safety Apparel.

Reflectivity

GLODIAN™ reflective film exceeds the minimum reflectivity requirements of ANSI/ISEA 107:2010 Level 2 & EN ISO 20471:2013 Separate performance. Typical coefficients or retroreflection for GLODIAN™ reflective film are provided in Table 1.

Product Approvals

EN ISO 20471:2013 / ANSI/ISEA 107:2010, Test certificates for garment acquisition are available upon request.

Table 1, Film Specification

REFLOMAX GLODIAN [™] Reflective Film - High Gloss Products					
Product Code	Available Color ⁵	Typical R _A ¹	Minimum R _A ²	Compliance with	Protective film ³
AGR (PVC)	White	600	330	EN 3356	O
	Fluorescent Yellow	500			
PGR (PVC)	White	500	330	EN ISO 20471, ANSI/ISEA 107	O
	Fluorescent Yellow	450			
XGR (PVC)	White	500	330	EN ISO 20471, ANSI/ISEA 107	O
	Fluorescent Yellow	450			
Enfren (TPU)	White	600	330	EN 13356	
RGR ⁴ (PVC)	White	200	100	Commercial	O
	Fluorescent Yellow	150			

RA measured by Reflomap on new product at +5.0° entrance, 0.2° observation angles.

ANSI 107 minimum coefficient of retroreflection. RA measured by Reflomap on new product at +5.0° entrance, 0.2° observation angles.

The protective film on Reflomap reflective film needs to be removed prior to using.

Available colors: Yellow, Fluorescent Orange, Orange, Fluorescent Red, Red, Blue, Fluorescent Pink, Magenta. The reflectivity of those colors is not guaranteed.

Only White & Fluorescent Yellow can meet the requirement of compliance regulation noted in the table 1 except RGR film

Table 2, Package Information

REFLOMAX GLODIAN™ Reflective Film - High Gloss Products					
Product Code	Available Color	Roll Width	Standard Roll Length	Roll Weight per Carton Kgs / Lbs	Protective film ³
AGR	White, Fluorescent Yellow	46cm (18")	100m	17 / 37.48	O
PGR	White, Fluorescent Yellow	46cm (18")	100m	17.5 / 38.58	O
XGR	White, Fluorescent Yellow	46cm (18")	100m	17.5 / 38.58	O
Enfren	White	46cm (18")	100m	17.5 / 38.58	O
RGR ⁴	White, Fluorescent Yellow	46cm (18")	100m	19 / 41.89	O

3. The protective film on Reflomap reflective film needs to be removed prior to using

4. Available colors: Yellow, Fluorescent Orange, Orange, Fluorescent Red, Red, Blue, Fluorescent Pink, Magenta. The reflectivity of those colors is not guaranteed.

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Reflomap reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.

REFLOMAX GLODIAN™

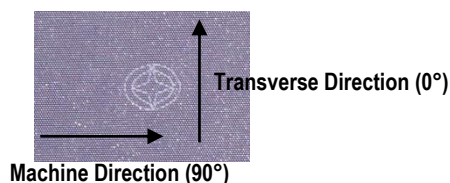
Microprismatic Reflective Film

Technical Datasheet and
Application Instruction

11/Mar/2019

Page 2 of 2

Film Logo Pattern



Application Instruction

Shelf Life

The product must be used within one year from the shipment date. All rolls including partially used be stored in original packaging, tightly wound. Store in a clean and dry area, away from direct sunlight.

Storage

Store in a cool (4 to 32°C, 39 to 90°F), dry area (less than 70% relative humidity) and use within 2 years after date of receipt. Store rolls in their original shipping cartons. Partially used rolls should be returned to their shipping carton.

NOTE

REFLOMAX GLODIAN™ Reflective Film High Gloss Film is shipped with a polyester liner on top of the vinyl film for easy handling. This polyester liner can be removed either before or after the sealing process and needs to be removed before sewing or screen printing. The film does not require a sealing film to be retroreflective. However, we do recommend the application of a sealing film to keep out dirt and water that can result in decreased reflectivity.

IMPORTANT NOTICE

Technical data can be changed with product improvement. The above data are the average of test results at the normal test condition. While the use of reflective material does greatly enhance visibility, no reflective material can assure absolute visibility, particularly in adverse weather conditions. Performance will vary depending upon actual use, exposure conditions and maintenance. Users should test reflective material to satisfy conformance to their own requirement.

All GLODIAN™ products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Published information concerning GLODIAN™ products is based upon research which the Company believes to be reliable although such information does not constitute a warranty. Because of the variety of uses of GLODIAN™ products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. All specifications are subject to change without prior notice.

WARRANTY

No warranty is given for purposes other than those listed in the Technical Datasheet or which are not processed according to Reflomap's processing and handling instructions. Please refer to the full warranty document available at www.reflomap.com for detailed information.

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