



## Specifications

### Introduction

REFLOMAX GLODIAN™ Reflective Film – High Gloss Products are designed to use for the safety clothing and help increase the visibility of the wearer, if used properly, at night or under low-light conditions when illuminated by headlights.

REFLOMAX GLODIAN™ reflective film products are composed of highly retroreflective microprisms generated on flexible, glossy and UV- stabilized polymeric film. A flexible vinyl film sealed on the backside of the REFLOMAX GLODIAN™ Reflective Film – High Gloss film encapsulates the microprisms and protects the reflective products from dirt and water penetration.

### Certificates

EN SIO 20471:2013 / ANSI/ISEA 107:2010, Test certificates for garments are available upon request.

### Composition

GLODIAN™ reflective film is composed of smooth surface, high gloss and abrasion micro-prismatic retroreflective layer.

The film can be sewn and/or welded with the high frequency. This product has the certificates satisfying the ANSI/ISEA 107:2010 American National Standard for High-Visibility Safety Apparel & Accessories, and the EN ISO 20471:2013 European Safety Apparel.

### Reflectivity

GLODIAN™ Reflective Film fully meets the minimum requirements for the reflectivity by the ANSI/ISEA 107:2010 Level 2 & EN ISO 20471:2013 Separate Performance. Typical coefficients or retroreflection for GLODIAN™ Reflective Film are as shown in Table 1.

**Table 1** Film Specifications

REFLOMAX GLODIAN™ Reflective Film - High Gloss Products					
Product Code	Service Colors <sup>5</sup>	Typical RA <sup>1</sup>	Minimum RA <sup>2</sup>	Compliance with	Protective film <sup>3</sup>
AGR (PVC)	White	600	330	EN 3356	Yes
	Fluorescent Yellow	500			
PGR (PVC)	White	500	330	EN ISO 20471, ANSI/ISEA 107	Yes
	Fluorescent Yellow	450			
XGR (PVC)	White	500	330	EN ISO 20471, ANSI/ISEA 107	Yes
	Fluorescent Yellow	450			
Enfren (TPU)	White	600	330	EN 13356	
RGR4 (PVC)	White	200	100	Commercial Practices	Yes
	Fluorescent Yellow	150			

RA measured by REFLOMAX on the new product at +5.0° entrance, 0.2° observation angle.

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

The protective film on REFLOMAX reflective film needs to be removed before using.

Service colors: Yellow, Fluorescent Orange, Orange, Fluorescent Red, Red, Blue, Fluorescent Pink and Magenta. The reflectivity of the colors is not guaranteed.

Only White & Fluorescent Yellow can meet the compliances specified in the table 1 except RGR film.

**Table 2** Packing Information

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

3. The protective film on REFLOMAX reflective film needs to be removed before using

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



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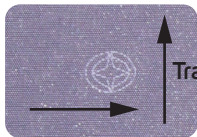


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### Film Logo Pattern



Transverse Direction (0°)

Machine Direction (90°)

## Application Instruction

### Shelf life

The product should be used within one (1) year from the factory date. All rolls including those partially used should be stored in original packaging and tightly wound. Store in a clean and dry place, away from the direct sunlight.

### Storage

Store in a cool (4 - 32°C, 39 - 90°F) and dry place (less than 70% R.H). Use within two (2) years after arrival date. Store the rolls in their original shipping cartons. Partially used rolls should be returned to their shipping carton.

### Instructions for Use

REFLOMAX GLODIAN™ Reflective Film High Gloss Products are shipped with a polyester liner on the top of vinyl film for user's easy handling. This polyester liner can be removed before or after the sealing process, and it needs to be removed before sewing or screen printing. The film doesn't require a sealing film to ensure the retro-reflectivity. But we strongly recommend the application of a sealing film to keep out dirt and water, which may cause the poor reflectivity.



### Important

The specifications are subject to change for the product upgrade. The above data are the average of test results at the normal test condition. The use of reflective material greatly enhances visibility; however, no reflective material can assure absolute visibility, especially under foul weather conditions. The product performance will be subject to its actual use, exposure conditions and user's maintenance. Users need to test reflective materials so that they can satisfy the conformance to their own requirement.

All GLODIAN™ products require the meticulous quality control throughout the manufacturing process. REFLOMAX warrants the products have merchantable quality and are free from workmanship. The published data in respect of GLODIAN™ products are based upon research which the Company believes to be reliable even if such data don't constitute a warranty. Owing to the variety of uses of GLODIAN™ lineup and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and shall undertake all risks in respect of its use. All specifications are subject to change without prior notice.

### Warranty

No warranty is given for the purposes other than those listed in the Specifications or which are not worked according to REFLOMAX's processing and handling instructions. Please see the full warranty instrument available at [www.reflomax.com](http://www.reflomax.com) for further information.

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