

Technical Datasheet

Description

GLODIAN™ reflective tape is a soft, flexible sew-on glass bead microsphere reflective garment tape, designed for use on all types of high visibility safety apparel.

Complies with the requirements for retroreflective tape in accordance with ANSI/ISEA 107:2010 & EN ISO 20471 photometric performance.

Product Construction

GLODIAN™ reflective tape is composed of wide-angle, exposed retroreflective lenses bonded to a sewable fabric backing.

Reflectivity

GLODIAN™ KR-500 series exceeds the minimum reflectivity requirements of EN ISO 20471:2013 separate performance, when tested at rotation angle = 0° or 90° in accordance with the procedures in EN ISO 20471:2013. Typical coefficients of retroreflection are shown in Table 1.

Product Approvals

EN ISO 20471:2013 / ANSI/ISEA 107:2010

Test certificates for garment acquisition are available upon request.

Table 1, Tape Specification

Product Code	Color	Minimum R_A^2	ANSI 107	EN ISO 20471	Wash Cycles at 60°C (140°F)	Industrial Laundry
KR-500	Silver	330	O	O	50	
KR-500S	Silver	330		O	50	
KR-500IW	Silver	330	O	O	100	50
KR-500FR Triple trim	F.O-Silver-F.O ³ F.Y-Silver-F.Y ³	330		O	15	
KR-500FR IW	Silver	330		O	30 (75°C, 167°F)	30
KR-500F	Silver	330		O	50	
KR-500FD	Silver	330				
KR-500D	Silver	330	O	O	25	50
MR-511B	White	Commercial				

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

2. EN ISO20471 minimum coefficient of retroreflection. R_A measured by Reflomap on new product at +5.0° entrance, 0.2° observation angles.

3. F.O: Fluorescent Orange, F.Y: Fluorescent Yellow

Table 2, Ordering Information

Product Code	Color	Roll Width	Standard Roll Length	Roll per Box	Weight per Carton Kgs / Lbs
KR-500	Silver	2" (50.8 mm)	100m / 109.4yds	16	29 / 63.93
KR-500S	Silver	2" (50.8 mm)	100m / 109.4yds	8	13 / 28.66
KR-500IW	Silver	2" (50.8 mm)	100m / 109.4yds	12	25 / 55.11
KR-500FR Triple trim	F.O-Silver-F.O ³ F.Y-Silver-F.Y ³	2" (50.8 mm)	100m / 109.4yds	16	22 / 48.50
KR-500FR IW	Silver	2" (50.8 mm)	100m / 109.4yds	16	22 / 48.50
KR-500F	Silver	42" (1,070 mm)	50m / 54.7yds	1	28 / 61.73
KR-500FD	Silver	2" (50.8 mm)	100m / 109.4yds	8	25 / 28.66
KR-500D	Silver	2" (50.8 mm)	50m / 54.68yds	16	21 / 46.30
MR-511B	White	23.62" (600mm)	100m / 109.4yds	1	21 / 46.30

3. F.O: Fluorescent Orange, F.Y: Fluorescent Yellow

Application Instructions

Whenever two or more pieces of GLODIAN™ reflective material are used together on a single surface or as a set, they should be matched to ensure uniform color and reflectivity. All safety garments should be constructed in accordance with EN ISO20471, or other prevailing standard.

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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 (5 to 30°C, 41 to 86°F), dry area (less than 50% relative humidity) and use within 1 years after date of receipt. Store rolls in their original shipping cartons. Partially used rolls should be returned to their shipping carton.

Performance

While use of Reflomap™ GLODIAN™ Reflective Material enhances visibility, no reflective material can guarantee absolute visibility, particularly in adverse weather conditions or unusually harsh wear conditions. Performance will vary depending upon actual use, exposure conditions, and proper cleaning/maintenance. The GLODIAN™ reflective material product portfolio offers a range of product attributes, and users should test the reflective material on their finished garments to satisfy conformance to their own requirements.

Reflomap™ recommends that all customers, in accordance with good manufacturing practices, establish an ongoing quality system which includes maintaining lot/roll identification throughout the garment production process. Customer should also store input materials and final products in accordance with manufacturer recommendations, as well as implement continuous testing throughout their production and on their finished garments that reflects their garment needs.

Care Instruction

GLODIAN™ reflective tape when washed in accordance with ANSI/ISEA 107:2010 & EN ISO 20471:2013 will withstand a minimum of 25 to 100 washings at 60°C (140°F) when attached to a variety of background materials.



Machine Wash, 60°C (140°F), Use neutral detergent or Non phosphate detergent



Do not Bleach



Do not Iron

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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