

## Description

ORALITE® GP 090 is a soft, flexible sew-on glass bead microsphere reflective garment tape, designed for use in industrial wash applications. ORALITE® GP 090 exceeds the minimum photometric requirements of EN ISO 20471:2013, ANSI/ISEA 107-2010 (Level 2) and AS/NZS 1906.4:2010 Class R.

## Product Construction

ORALITE® GP 090 is composed of wide-angle, exposed retroreflective lenses bonded to a sewable fabric backing.

## Product Approvals

EN ISO 20471:2013 Separate Performance

## Colour

ORALITE® GP 090 is available in silver (daytime appearance) with a white reflected colour.

## Retroreflectivity

ORALITE® GP 090 complies with the minimum reflectivity requirements of EN ISO 20471:2013 separate performance, ANSI/ISEA 107-2010 and AS/NZS 1906.4:2010 Class R, when tested in accordance with the relevant procedures. Typical coefficients of retroreflection are shown in Table 1.

## Care Instructions

When attached to a variety of background materials, ORALITE® GP 090 will withstand a minimum of 100 wash cycles according to ISO 6330:2012 Method 6N (60°C) and a minimum of 50 cycles when washed in accordance with ISO 15797:2017, Method 1.2 or Method 4.2 at 75° C and dried in a tumble dryer at 90° C or in a tunnel dryer at 155° C.

## Dry Cleaning

ISO 3175:2010, Method 9.1 normal cycle (perchloroethylene) – 50 cycles.

## Application Instructions

ORALITE® GP 090 has a single layer construction which allows for stitching in any area of the surface. A stitch count of 8 stitches per 2,54 cm is recommended. The stitching should be at least 2 mm from the edge of the garment tape.

## Shelf Life

The product must be used within one year from the shipment date. All rolls including partially used rolls should be stored in original packaging, tightly wound. Store in a clean and dry area, away from direct sunlight. Store at 20° C and 50% relative humidity.

**Table 1 - Retroreflectivity**

Observation Angle	Entrance Angle ( $\beta_1, \beta_2=0$ )			
	5°	20°	30°	40°
0,20° (12')	500	290	180	65
0,33° (20')	250	200	170	60
1,00° (1°)	25	15	12	10
1,50° (1°30')	10	7	5	4

All values have units of cd/lux/m<sup>2</sup>.

## IMPORTANT NOTICE

All ORALITE® 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 ORALITE® 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 ORALITE® 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.

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