

## Description

ORALITE® GP 900 Series is a tough weather and solvent resistant tape designed to be sewn on to high visibility garments, for use in industrial laundering processes up to 75° C with tumble drying. The reflectivity exceeds the highest performance level of EN ISO 20471:2013.

## Product Construction

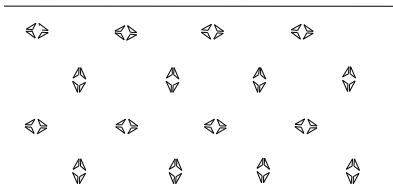
ORALITE® GP 900 Series is composed of cube corner (microprism) retroreflective elements integrally bonded to a flexible, smooth-surfaced tough and weather resistant UV stabilised polymeric film. The prism surfaces are metallised to provide a mirror surface to the prism facets. The product comes with a fabric backing to facilitate sewing.

## Product Approvals

EN ISO 20471:2013 Separate Performance.

Test certificates for garment CE mark acquisition are available upon request

## Film Logo Pattern



## Colour

ORALITE® GP 900 Series is available in silver. ORALITE® GP 900 Series tape conforms to the colour requirements in Table 2 when measured in accordance with CIE Publication No. 15.2. The four pairs of coordinates determine the acceptable colour when measured with standard illuminant D65 using a Hunter LabScan.

## Retroreflectivity

ORALITE® GP 900 Series tapes comply with the minimum reflectivity requirements of EN ISO 20471:2013 separate performance, when tested in accordance with the procedures in EN ISO 20471:2013. *Typical* coefficients of retroreflection for ORALITE® GP 900 Series are provided in Table 1.

## Care Instructions

The product is suitable for use in home washing at 60° C and in an industrial wash process at 75°C. The product is certified to withstand a minimum of 50 wash cycles at 75° C according to ISO 15797:2017, table 4 procedure 2 and dried in a tumble dryer at 90° C. The tape is also certified to the disinfectant industrial washing process of ISO 15797:2017, table 1 procedure 2 and dried in a tumble dryer at 90° C (50 cycles at 75° C).

The product is not suitable for dry cleaning

## Application Instructions

Please contact ORAFOL for full instructions.

## 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. Ensure that the batch identification remains with partial product rolls.

**Table 1**  
**Retroreflectivity**

Observation Angle	Entrance Angle ( $\beta_1, \beta_2=0$ )			
	5°	20°	30°	40°
0.20°	1000	700	500	250
0.33°	500	400	300	200
1.00°	35	33	30	20
1.50°	10	10	10	8

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

**Table 2**  
**Colour Specification Limits**

Colour	Chromaticity Coordinates*							
	1		2		3		4	
	x	y	x	y	x	y	x	y
15 Silver	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329

\* The four pairs of chromaticity coordinates determine the acceptable chromaticity on the CIE diagram.

## IMPORTANT NOTE

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The durability of the end product depends upon a variety of factors, including but not limited to substrate selection and preparation, compliance with the recommended application guidelines, geographical area, exposure conditions and maintenance of the ORAFOL material and of the end product. Product defects caused by the substrate or improper surface preparation do not lie within ORAFOL's sphere of responsibility.

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