

Description

ORALITE® GP 092 is a soft, flexible glass bead microsphere reflective garment tape, designed for heat application in industrial wash applications. ORALITE® GP 092 exceeds the minimum photometric requirements of EN ISO 20471:2013.

Product Construction

ORALITE® GP 092 is composed of wide-angle, exposed retroreflective lenses bonded to a heat activated polyurethane adhesive. The adhesive is protected by a plastic liner.

Product Approvals

EN ISO 20471:2013 Separate Performance

Colour

ORALITE® GP 092 is available in silver (daytime appearance) with a white reflected colour.

Retroreflectivity

ORALITE® GP 092 exceeds the minimum reflectivity requirements of EN ISO 20471:2013 separate performance, when tested at $e = 0^\circ$ or $e = 90^\circ$ in accordance with the procedures in EN ISO 20471:2013. Typical coefficients of retroreflection are shown in Table 1.

Care Instructions

When attached to a variety of background materials, ORALITE® GP 092 will withstand a minimum of 50 cycles when washed in accordance with ISO 15797:2002 Method 8 at 75°C and dried in a tumble dryer at 90°C or in a tunnel dryer at 155°C .

Application Instructions

ORALITE® GP 092 has a single layer construction with a heat activated polyurethane adhesive backing. The protective plastic liner must be removed from the adhesive side prior to heat application. Please contact ORAFOL for full application instructions.

Shelf Life

The product must be used within 1 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°
$0,20^\circ (12')$	330	290	180	65
$0,33^\circ (20')$	250	200	170	60
$1,00^\circ (1^\circ)$	25	15	12	10
$1,50^\circ (1^\circ 30')$	10	7	5	4

All values have units of cd/lux/m^2 .

IMPORTANT NOTE

All ORAFOL products are subject to careful quality control throughout the entire manufacturing process, and it is ensured that they are of merchantable quality and free from manufacturing defects. The information published is based on our analyses and studies and does not constitute any warranted properties or any agreement as to quality. Due to the diverse possibilities of use of ORAFOL products and the constant development of new applications, the buyer should carefully consider the suitability and performance of the product for the respective purpose; it bears all risks associated with such use. No warranty is given for purposes other than those listed in the Technical Data Sheet or for applications that are not processed in accordance with ORAFOL's processing instructions.

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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