

Description

ORALITE® GP 097 Segmented is a soft, flexible heat applied glass bead microsphere reflective garment tape, designed for application to firefighter garments and flame-resistant work wear where arc and heat resistance are required and is suited for use in industrial wash applications. ORALITE® GP 097 Segmented exceeds the minimum photometric requirements of EN ISO 20471:2013, ANSI ANSI/ISEA 107-2010 (Level 2) and AS/NZS 1906.4:2010 Class R.

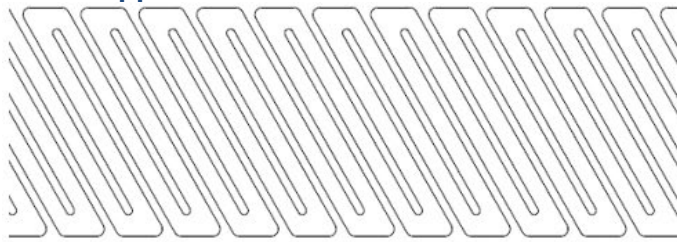
Product Construction

ORALITE® GP 097 Segmented is composed of wide-angle, exposed retroreflective lenses bonded to flame resistant heat activated polyurethane adhesive. The product is provided with a protective liner on the reflective side only that facilitates transfer of the tape to the fabric.

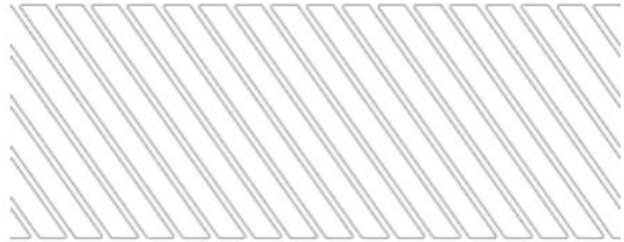
Product Approvals

EN ISO 20471:2013 Separate Performance
EN 469:2005
ISO 14116:2008

Visual Appearance



ORALITE GP 097 S (M Design A)



ORALITE GP 097 S (\\ Design B)

Colour

ORALITE® GP 097 Segmented is available in silver (daytime appearance) with a white reflected colour.

Retroreflectivity

ORALITE® GP 097 Segmented complies with the minimum reflectivity requirements of EN ISO 20471:2013 separate performance, ANSI ANSI/ISEA 107-2010 and AS/NZS 1906:2010 Class R, when tested in accordance with the relevant procedures. Typical coefficients of retroreflection are shown in Table 1.

Flame Resistance

ORALITE® GP 097 Segmented meets the requirements of EN 469:2005 Clause 6.1 and EN ISO 14116:2008 Clause 6.1 Index 3 when tested in accordance with ISO 15025 Method A in new condition, and also after 50 wash cycles according to ISO 6330:2012 Method 6N (60° C) and 50 wash cycles according to ISO 15797:2002 Method 8 (75° C), tumble and tunnel dry.

Thermal Resistance

ORALITE® GP 097 Segmented exceeds the photometric requirements of EN ISO 20471:2013 after convective heat exposure at 180° C for 5 minutes when new (EN 469:2005 Annex B.3.1) and also exceeds the photometric requirements after 50 wash cycles according to ISO 6330:2012 Method 6N (60° C) and 50 wash cycles according to ISO 15797:2002 Method 8 (75° C), tumble and tunnel dry for convective heat exposure at 180° C for 5 minutes.

Care Instructions

Machine Washing

ORALITE® GP 097 Segmented will meet the minimum photometric requirements of EN ISO 20471:2013 when attached to a variety of background materials and when washed in accordance with the following:

- ISO 6330:2012 Method 6N 50 washings at 60° C
- ISO 15797:2002 Method 8 50 washings at 75° C (Tumble dry)
- ISO 15797:2002 Method 8 50 washings at 75° C (Tunnel dry)

Dry Cleaning

Certified in accordance with ISO 3175-2:2018

Normal Cycle – 100 cycles.



Application Instructions

ORALITE® GP 097 Segmented 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 care and application 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.

Table 1
Retroreflectivity

Observation Angle	Entrance Angle ($\beta_1, \beta_2=0$)			
	5°	20°	30°	40°
0,20°	330	290	180	65
0,33°	250	200	170	60
1,00°	25	15	12	10
1,50°	10	7	5	4

All values have units of cd/lux/m².

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.

When using ORAFOL products, the pertinent national regulations are to be observed. ORAFOL recommends that you obtain the current stipulations from your local authority and ensure that the product meets these requirements. Please contact ORAFOL for further information.

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