

Description

ORALITE® FTP 2100 is a thin and flexible mono-layered fluorescent lime retroreflective fire tape designed to meet or exceed the requirements of EN 469:2005 Protective Clothing for Fire-Fighters, offering superior reflectivity and durability under today's most demanding fire-fighting conditions.

A smooth sealed outer surface provides superior performance in the critical areas of abrasion resistance, wet performance and cleanability.

Product Construction

ORALITE® FTP 2100 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 protect them from dirt and moisture. The product is provided with a specially formulated flame and heat resistant fabric backing and allows for sewing applications.

Colour

ORALITE® FTP 2100 is available in fluorescent lime, offering outstanding night-time visibility through reflected colour similar to that of its daytime appearance.

Retroreflectivity

ORALITE® FTP 2100 can be used on EN ISO 20471:2013 high visibility garments, and exceeds the minimum reflectivity requirements of EN ISO 20471:2013 separate performance when tested in accordance with the procedures in EN ISO 20471.

Flame Resistance

ORALITE® FTP 2100 meets the requirements of EN 469:2005 clause 6.1 and EN ISO 14116:2008 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 2A (60° C) and 30 wash cycles according to ISO 6330:2012 Method 1A (92° C).

Thermal Resistance

ORALITE® FTP 2100 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 5 washing cycles (according to ISO 6330:2012 Method 2A) and convective heat exposure at 180° C for 5 minutes.

Cleanability

ORALITE® FTP 2100 features a glossy top surface which is inherently resistant to soiling and allows for easy cleaning. Dirt, soot and smoke stains may be readily cleaned using non-abrasive soap and water, thus restoring significant reflectivity and fluorescence to the product.

Care Instructions

ORALITE® FTP 2100, when washed in accordance with ISO 6330:2012 Method 2A will withstand a minimum of 50 washings at 60° C and when washed in accordance with ISO 6330:2013 Method 1A will withstand a minimum of 30 washings at 92° C when attached to a variety of background materials.



Please contact ORAFOL for full care and application instructions.

Shelf Life

The product should be stored in its original packaging, at 20° C and 50% relative humidity and used within one year of receipt.

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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