

Description

ORALITE® GP 340 Highlight is a tough weather and solvent resistant tape designed to be sewn or high frequency welded on to high visibility garments. The reflectivity exceeds the highest performance level of EN ISO 20471:2013, and an approved testing laboratory has certified the tapes. The fluorescent lime version is in addition certified to EN ISO 20471:2013 Combined Performance.

Product Construction

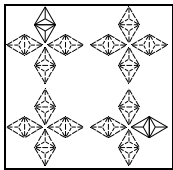
ORALITE® GP 340 Highlight is composed of cube corner (microprism) retroreflective elements integrally bonded to a flexible, smooth-surfaced tough and weather resistant UV stabilised polymeric film. The reflective material is welded to a UV stabilised polymeric film to protect the prism surfaces from dirt and moisture.

Product Approvals

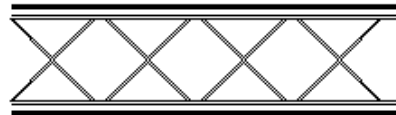
EN ISO 20471:2013

Test certificates for garment CE mark acquisition are available upon request.

Film Logo Pattern



Visual Appearance



Colour

ORALITE® GP 340 is available in white, fluorescent lime and orange. Colour shades are constructed by using 7 possible coloured backing materials. 21 colour combinations are available, and all conform to EN ISO 20471:2013.

ORALITE® GP 340 Highlight 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 340 Highlight 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 340 Highlight are provided in Table 1 and Table 2.

Care Instructions

ORALITE® GP 340 Highlight when washed in accordance with EN ISO 20471:2013 will withstand a minimum of 100 washings at 60° C when attached to a variety of background materials.



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.

Table 1 - Retroreflectivity, white / fluorescent lime

Observation Angle	Entrance Angle ($\beta_1, \beta_2=0$)			
	5°	20°	30°	40°
0,20°	580	450	300	200
0,33°	370	300	200	150
1,00°	100	90	50	40
1,50°	25	20	18	14

All values have units of cd/lux/m².

Table 2 - Retroreflectivity, orange

Observation Angle	Entrance Angle ($\beta_1, \beta_2=0$)			
	5°	20°	30°	40°
0,20°	400	315	210	140
0,33°	280	240	180	100
1,00°	70	60	35	25
1,50°	16	14	12	8

All values have units of cd/lux/m².

Table 3 - Colour Specification Limits

Colour	Chromaticity Coordinates*							
	1		2		3		4	
	x	y	x	y	x	y	x	y
15 White	0,303	0,300	0,368	0,366	0,340	0,393	0,274	0,329
20 Fl. lime	0,387	0,610	0,356	0,494	0,398	0,452	0,460	0,540
07 Orange	0,558	0,352	0,636	0,364	0,570	0,429	0,506	0,404

* The four pairs of chromaticity coordinates determine the acceptable chromaticity on the CIE diagram. The minimum luminance data is required for combined fluorescent performance tapes only.

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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