ORALITE® SB 231
School Bag Tape

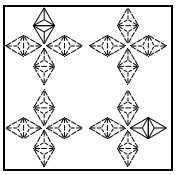
Description
ORALITE® SB 231 is a tough weather resistant tape designed to be sewn or high frequency welded on to school bags. The product is fully compliant with German specification DIN 58124, and the tapes have been certified by an approved testing laboratory.

Product Construction
ORALITE® SB 231 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.

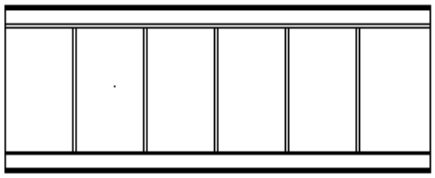
Product Approval
DIN 58124

Test certificates for CE mark acquisition are available upon request.

Film Logo Pattern



Visual Appearance



Colour
ORALITE® SB 231 is available in white and fluorescent lime. The colours conform 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® SB 231 complies with the minimum reflectivity requirements of DIN 58124. Typical coefficients of retroreflection for ORALITE® SB 231 in 35 mm version are shown in Table 1.

Care Instructions
ORALITE® SB 231 will withstand a minimum of 25 washings at 40° C when attached to a variety of background materials.

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

Colour	Observation / Entrance Angle (β_1, β_2=0)		
	0,20° / 5°	0,20° / 30°	0,20° / 40°
15 White	580	300	200
20 Fluorescent lime	580	300	200

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

Table 2
Colour Specification Limits (Daytime)

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 Fluorescent lime	0,387	0,610	0,356	0,494	0,398	0,452	0,460	0,540

*) The four pairs of chromaticity coordinates determine the acceptable chromaticity when measured with standard illuminant C using a Hunter LabScan spectrocolorimeter. Fluorescent colours shall be measured with standard illuminant D_{65} using a Hunter LabScan spectrocolorimeter.

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.