ORALITE® 5431IND

Commercial Grade Hazard Warning Tape

ORALITE® 5431 Construction Grade was specially developed for construction site security and offers reliable retroreflective marking for temporary markings on various substrates, including polyolefinic materials.

Reflective Properties

Reflective Technology: Glass bead, Reflectivity classes: RA1, Reflective film structure: Design A (embedded glass beads), Reflection norm: ORALITE® 5431IND - Tabelle 1, ORALITE® 5431IND - Tabelle 2

Areas of Application

- Construction site safety
- Construction sites

Colours

ORALITE® 5431IND is available in the following colours: White / Red (F010), Yellow / Black (F020)

Total thickness

- 0.09 mm (Average value, without protective liner and adhesive)

Front material

Premium PVC film, cast film, 0.09 mm

Liner

Silicone cardboard PE coated on both sides, 145 g/m²

Adhesive

Solvent-polyacrylate, permanent (with aggressive tack)

Technical properties

RESISTANCE

Durability	4 Year(s)	with professional processing and vertical outdoor weathering, central European normal climate
Shelf Life	2 Year(s)	in original packaging, at 20 °C and 50 % relative humidity
Temperature resistance	Minimum temperature -56 °C Maximum temperature 82 °C	adhered on aluminium

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ADHESIVE PROPERTIES

Adhesive power	15 N/25 mm	after 24 h, on stainless steel | Average value, FINAT TM 1

PROCESSING

Suitable substrate	Metals, painted metal surfaces
Application temperature	Minimum temperature 10 °C

Table 1 - Specific coefficient of retroreflection R' in cd / (lx m²) (DIN 67520, Design RA1)

Observation Angle		0.2°			0.33°			2°		
Entrance angle		5°	30°	40°	5°	30°	40°	5°	30°	40°
White	(010)	70	30	10	50	24	9	5	2.5	1.5
Yellow	(020)	50	22	7	35	16	6	3	1.5	1
Red	(030)	10.2	4.2	1.4	7	2.8	1.3	0.7	0.4	0.4

Table 2 - Chromaticity coordinates (New condition; DIN 6171)

Colours	1		2		3		4		Luminance factor β
	x	y	x	y	x	y	x	y	
White	0.305	0.315	0.335	0.345	0.325	0.355	0.295	0.325	≥ 0.27
Yellow	0.494	0.505	0.470	0.480	0.513	0.437	0.545	0.454	≥ 0.16
Red	0.735	0.265	0.700	0.250	0.610	0.340	0.660	0.340	≥ 0.03

PRODUCT NOTE

The surface to be adhered must be free of dust, grease or other soiling that could impair the adhesive strength of the material. The compatibility of selected surfaces should be tested by the user before the application of the material. With other applications the user bears the full responsibility for evaluating the suitability of the product and for all risks associated with this application. All ORALITE® products have been manufactured in a production process certified in accordance with ISO 9001:2015. The batch can be traced at any time by means of the roll number.

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IMPORTANT NOTES

Relevant national specifications have to be observed when using films of the ORALITE® series. ORAFOL recommends that you obtain the current specifications from your local authority and ensure that the product complies with them. For further information, please contact ORAFOL directly. All ORALITE® products are subject to thorough quality control during the entire manufacturing process. It is ensured that they are of merchantable quality and free from manufacturing defects. The information published on the ORALITE® products is based on research results which the company considers to be reliable, but which do not constitute a guarantee. In view of the wide range of applications of ORALITE® products and the continuous development of new applications, it is up to the buyer to carefully check the suitability and performance of the product for the respective purpose and assume all risks associated with this use. All specifications may be changed without advance notice. Any warranty is excluded for applications which are not listed in the Technical Data sheet or which are not performed in accordance with the processing guidelines set out by ORAFOL. The durability of the shields depends on a multitude of factors, such as for example the selection and preparation of the substrate, compliance with the recommended processing guidelines, the geographical application area, the weather conditions as well as the maintenance of the product and the finished shield. ORAFOL does not accept any liability for defects which can be traced back to an unsuitable substrate or inadequate surface preparation. You can find comprehensive information in the warranty document under www.orafol.com. ORALITE® is a trademark of ORAFOL Europe GmbH.

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