

## Product Description

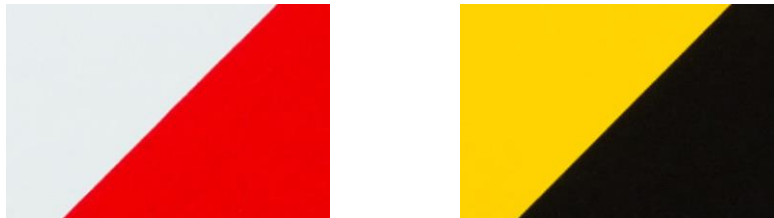
ORALITE® 5431 Construction Grade Hazard Warning Tape is a weather-resistant, self-adhesive and retroreflective Warning Tape, which is used for marking hazardous areas by day and night. Due to its high flexibility and resistance to corrosion and solvents, this product is suitable for indoor and outdoor use on flat or curved surfaces. The basis of the film is a cast special PVC cover layer, which ensures excellent dimensional stability and high scratch and impact resistance.

The printing of the 5431IND series in traffic red on white or opaque black on traffic yellow ensures permanently good visibility of the marked facilities or areas and complies with the requirements of DIN 4844.

The reflective system of ORALITE® 5431 Series reflective films consists of catadioptric glass beads embedded in a translucent plastic layer (Class RA1, Design A, previously Type I).

## Colour

ORALITE® 5431IND is available on rolls of white/pre-stripped red and yellow/pre-stripped black, left- or right-handed.



## Adhesive

Solvent polyacrylate, permanent, with aggressive tack

## Liner

Both sides silicone coated paper liner with 145 g/m<sup>2</sup> weight

## Application/Processing

Surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination which could affect the adhesion of the material. The compatibility of selected surfaces should be tested by the user, prior to application of the material. For other applications the user is fully responsible for evaluating the suitability of the product, and for any risks associated with that use.

All ORALITE® products are manufactured within an ISO 9001:2015 controlled manufacturing environment and batch traceability is possible on basis of the roll number.

## Product Data

### Minimum reflection data (DIN 67520, Class RA1)

| Specific coefficient of retroreflection R' in cd/lx/m <sup>2</sup> |      |     |     |       |     |     |     |     |     |
|--|------|-----|-----|-------|-----|-----|-----|-----|-----|
| Observation angle  | 0.2° |     |     | 0.33° |     |     | 2°  |     |     |
| Entrance angle   | 5°   | 30° | 40° | 5°    | 30° | 40° | 5°  | 30° | 40° |
| <b>white (010)</b>   | 70   | 30  | 10  | 50    | 24  | 9   | 5   | 2.5 | 1.5 |
| <b>yellow (020)</b>  | 50   | 22  | 7   | 35    | 16  | 6   | 3   | 1.5 | 1   |
| <b>red (030)</b>   | 10.2 | 4.2 | 1.4 | 7     | 2.8 | 1.3 | 0.7 | 0.4 | 0.4 |

### Colours (DIN 6171, new condition)

|               |              | Colour Coordinates |       |       |       |       |       |       |       | Luminance factor $\beta$ |
|---------------|--------------|--------------------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
|               |              | 1                  |       | 2     |       | 3     |       | 4     |       |                          |
|               |              | x                  | y     | x     | y     | x     | y     | x     | y     |                          |
| <b>white</b>  | <b>(010)</b> | 0.305              | 0.315 | 0.335 | 0.345 | 0.325 | 0.355 | 0.295 | 0.325 | $\geq 0.27$              |
| <b>yellow</b> | <b>(020)</b> | 0.494              | 0.505 | 0.470 | 0.480 | 0.513 | 0.437 | 0.545 | 0.454 | $\geq 0.16$              |
| <b>red</b>    | <b>(030)</b> | 0.735              | 0.265 | 0.700 | 0.250 | 0.610 | 0.340 | 0.660 | 0.340 | $\geq 0.03$              |

### Physical and Chemical Properties

|  |   |
|--|---|
| <b>Thickness*</b> (without protective paper and adhesive)                            | 0.090 mm  |
| <b>Temperature resistance</b>  | adhered to aluminium, -56° C to +82° C (-68° F to 180° F) |
| <b>Adhesive power*</b> (FINAT-TMI after 24h, stainless steel)                        | > 15 N/25 mm  |
| <b>Shelf life**</b>  | 2 years   |
| <b>Application temperature</b>   | > +10° C  |
| <b>Service life by specialist application</b><br>under vertical outdoor exposure *** | up to 4 years   |

\* average

\*\* in original packaging, at 20°C and 50% relative humidity

\*\*\* standard central European climate

### IMPORTANT NOTICE

When using ORALITE® sheeting the relevant national specifications have to be complied with. ORAFOL recommends you obtain the current requirements from your local authority and ensure product conformance with such requirements. Please contact ORAFOL for further information.

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.

No warranty is given for purposes other than those listed in the Technical Datasheet or which are not processed according to ORAFOL's processing and handling instructions. The durability of the signs will depend on a variety of factors, including but not limited to substrate selection and preparation, compliance with recommended application guidelines, geographic area, exposure conditions and maintenance of the product and finished sign. Sign failures caused by the substrate or improper surface preparations are not the responsibility of ORAFOL. Please refer to the full warranty document available at [www.orafol.com](http://www.orafol.com) for detailed information.

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