# ORALITE® 5600E

**Fleet Marking Grade**



ORALITE® 5600 Fleet Marking Grade is a removable reflective film for long-term outdoor advertising on painted surfaces. The film is extremely flexible and easily conformable over rivets. Detailed processing instructions can be found on our product website.

## Reflective Properties

Reflective Technology: Glass bead, Reflectivity classes: RA1, Reflective film structure: Design A (embedded glass beads), Reflection norm: ORALITE ® 5600 E - Tabelle 1 (ECE 104), ORALITE ® 5600 E - Tabelle 2 (CIE Nr. 15.2)

## Areas of Application

- Construction vehicles
- Construction sites
- Emergency vehicles & vehicles with special rights
- Safety & emergency services
- Traffic & transportation
- Agricultural machines
- Lorries & trailers
- Advertising
- Advertising & signage

## Colours

ORALITE® 5600E is available in the following colours: White (F010), Yellow (F020), Red (F030), Orange (F035), Blue (F050), Green (F060), Black (F070), Azure (F084), Gold (F091), Lemon (F213), Ruby (F364)

## Total thickness

- 0.135 mm (Average value, without protective paper)

## Front material

Premium PVC film, cast film, 0.09 mm

## Liner

Silicone cardboard PE coated on both sides, 145 g/m$^2$

## Adhesive

Solvent-polyacrylate, permanent (removable via heat), Transparent

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## Recommended laminating films

ORAGUARD® 290, ORAGUARD® 290DU, ORAGUARD® 290F, ORAGUARD® 293, ORAGUARD® 293F, ORAGUARD® XP279

## Recommended transfer materials

ORATAPE® LT72 Application Tape, ORATAPE® MT52 Application Tape, ORATAPE® MT72 Application Tape, ORATAPE® MT95 Application Tape

## Technical properties

### RESISTANCE

| | | |
|---|---|---|
| Durability | 7 Year(s) | with professional processing, with vertical outdoor weathering, central European normal climate |
| Shelf Life | 2 Year(s) | in original packaging, at 20 °C and 50 % relative humidity |
| Elongation at break | Minimum elongation at break along 100 %<br>Minimum elongation at break across 100 % | DIN EN ISO 527<br>DIN EN ISO 527 |
| Tensile strength | Minimum tensile strength along 0 MPa<br>Minimum tensile strength across 0 MPa | |
| Temperature resistance | Minimum temperature -40 °C<br>Maximum temperature 80 °C | adhered on aluminium, central European normal climate |

### ADHESIVE PROPERTIES

| | | |
|---|---|---|
| Removability | Removable | removable via heat |
| Adhesive power | 17 N/25 mm | after 24 h, adhered on stainless steel \| Average value, FINAT TM 1 |
| | 16 N/25 mm | after 24 h, adhered on acrylic varnish \| Average value, FINAT TM 1 |

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## PROCESSING

| | |
|---|---|
| Recommended printing procedure | Screen printing, Digital printing with solvent-based inks, UV printing, Latex printing |
| Application temperature | Minimum temperature 15 °C |
| Proposed application technology | Dry application |

### table1

| viewAngle | 0,33° | | | |
|---|---|---|---|---|
| **incidenceAngle** | **5°** | **30°** | **40°** | **60°** |
| allColors | 50 | 21,7 | 12,3 | 1,7 |

### table2

| Colours | | 1 | | 2 | | 3 | | 4 | | luminanceFactor |
|---|---|---|---|---|---|---|---|---|---|---|
| | | x | y | x | y | x | y | x | y | |
| **white** | **(010)** | 0,305 | 0,315 | 0,335 | 0,345 | 0,325 | 0,355 | 0,295 | 0,325 | □ 0,35 |
| **yellow** | **(020)** | 0,494 | 0,506 | 0,470 | 0,480 | 0,513 | 0,437 | 0,545 | 0,455 | □ 0,27 |
| **red** | **(030)** | 0,735 | 0,265 | 0,700 | 0,250 | 0,607 | 0,343 | 0,655 | 0,345 | □ 0,05 |
| **orange** | **(035)** | 0,631 | 0,369 | 0,552 | 0,359 | 0,506 | 0,404 | 0,570 | 0,430 | □ 0,12 |
| **blue** | **(050)** | 0,100 | 0,109 | 0,146 | 0,156 | 0,183 | 0,115 | 0,137 | 0,038 | □ 0,01 |
| **green** | **(060)** | 0,007 | 0,703 | 0,216 | 0,448 | 0,147 | 0,400 | 0,018 | 0,454 | □ 0,04 |
| **black** | **(070)** | 0,385 | 0,355 | 0,300 | 0,270 | 0,260 | 0,310 | 0,345 | 0,395 | 0 □ ß □ 0,03 |
| **skyBlue** | **(084)** | 0,120 | 0,125 | 0,160 | 0,120 | 0,160 | 0,480 | 0,160 | 0,460 | □ 0,03 |
| **gold** | **(091)** | 0,460 | 0,440 | 0,480 | 0,440 | 0,480 | 0,420 | 0,460 | 0,420 | □ 0,16 |
| **lemonYellow** | **(213)** | 0,395 | 0,515 | 0,450 | 0,460 | 0,495 | 0,502 | 0,423 | 0,574 | □ 0,16 |
| **rubyRed** | **(364)** | 0,710 | 0,290 | 0,610 | 0,300 | 0,569 | 0,341 | 0,655 | 0,345 | □ 0,03 |

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## PRODUCT NOTE

ORALITE® 5600E can be printed with the ORALITE® 5018 screen printing ink or with most solvent-based inks, UV or latex inks. Please take into account the instructions of the selected ink manufacturer to determine whether an application laminate is required. If necessary, it is recommended to laminate the material with ORALITE® 5051 289F, ORAGUARD® 290F or ORAGUARD® 293F to ensure improved UV protection. When using other inks or printers than ORAFOL, the applications must be tested and approved by the customer. While the use of heat helps with removing the product easily, a solvent-based adhesive remover might be required to fully remove possible adhesive residues. For detailed information please use the processing instructions published by ORAFOL or contact the responsible employee of the ORAFOL Reflective Solutions Division. All ORALITE® products are manufactured in a production environment certified and checked in accordance with ISO 9001:2015. The batch can be traced at any time by means of the roll number.

## IMPORTANT NOTES

All ORAFOL products are subject during their entire manufacturing process to thorough quality control so that it is ensured that they are of merchantable quality and free from manufacturing defects. The published information is based on our analyses and examinations and does not constitute warranted characteristics or a quality agreement. In view of the wide range of applications of ORAFOL products and the continuous development of new applications, the buyer should carefully weigh up the suitability and performance of the product for the respective purpose and they bear all risks in connection with such use. No warranty is assumed for purposes other than those listed in the Technical Data Sheet or for applications which are not processed in accordance with the processing guidelines of ORAFOL. The durability of the end product depends on a multitude of factors including, but not limited to, the substrate selection and preparation, compliance with the recommended application guidelines, geographical area, exposition conditions and maintenance of the ORAFOL material and of the end product. Product faults which are caused by the substrate or improper surface preparation, do not lie within the responsibility of ORAFOL. The relevant national provisions must be observed when using ORAFOL products. ORAFOL recommends that you obtain the current specifications from your local authority and ensure that the product complies with them. Please contact ORAFOL for further information. ORALITE® is a trademark of ORAFOL Europe GmbH.

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