

# ORALITE® 5500

## Engineer Grade

ORALITE® 5500 Engineer Grade is an advanced reflective film, especially designed for reflective warning markings and information signs. The product is suitable for both permanent and temporary applications under challenging conditions.

### Reflective Properties

Reflective Technology: Glass bead, Reflectivity classes: RA1, Reflective film structure: Design A (embedded glass beads)

### Areas of Application

- Traffic signs
- Construction sites
- Traffic & transportation
- Advertising & signage

### Colours

ORALITE® 5500 is available in the following colors: White (color code 010), Yellow (color code 020), Orange (color code 035), Red (color code 030), Green (color code 060), Blue (color code 050), Brown (color code 080), Black (color code 070)

### Total thickness

- 0.125mm (Average value, without protective paper)

### Front material

Alkyd resin, 0.11 mm

### Liner

Silicone cardboard PE coated on both sides, 145 g/m<sup>2</sup>

### Adhesive

Solvent-polyacrylate

### Technical properties

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### RESISTANCE

|                                      |                                                                         |                                                                                                          |
|--------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Resistance to cleaning agents        | No change                                                               | adhered on aluminium   8 h in detergent solution (0.5 % household cleaner) at room temperature and 65 °C |
| 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                                               |
| Resistance to solvents and chemicals | Oils, Fuels, Greases, Aliphatic solvents, Weak acids, Salts and alkalis |                                                                                                          |
| Seawater resistance                  | Tested                                                                  | adhered on aluminium   DIN 50021, after 100 h/ 23 °C no change                                           |
| Temperature resistance               | Minimum temperature -40 °C<br>Maximum temperature 80 °C                 | adhered on aluminium                                                                                     |

### ADHESIVE PROPERTIES

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

### PROCESSING

|                                |                           |                                                                                                                           |
|--------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Recommended printing procedure | Screen printing           | The ORALITE® screen printing inks of the series 5010 and 5018 are recommended.                                            |
| Suitable substrate             | Metals                    | The adhesive was specifically developed for the application on metal surfaces, e.g. aluminium and galvanised sheet steel. |
| Application temperature        | Minimum temperature 10 °C |                                                                                                                           |

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### PRODUCT NOTE

Detailed information is available in the processing instructions (No. 4.2). In the case of other areas of application than the ones named, it is the responsibility of the buyer to check in detail the suitability and performance of the product for the respective purpose. The buyer bears all risks arising in this context. Further information can be obtained from the customer consultants of the Reflective Solutions Division. The traceability of our goods in accordance with ISO 9001 is ensured by means of the roll number.

### IMPORTANT NOTES

Relevant national specifications have to be observed when using films of the ORALITE® series. ORAFOL recommends obtaining the current guidelines and specifications from the relevant local authorities to ensure a corresponding product conformity. 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 the products 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. The buyer bears all risks which result from the use of these products. All specifications are subject to change. 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 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 shields. 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 under [www.orafol.com](http://www.orafol.com). ORALITE® is a trademark of ORAFOL Europe GmbH.