

# ORALITE® 5510

## Engineer Grade

ORALITE® 5510 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® 5510 is available in the following colors: White (F010), Yellow (F020), Orange (F035), Red (F030), Green (F060), Blue (F050), Brown (F080)

### Total thickness

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

### Front material

Alkyd resin, 0.11 mm

### Liner

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

### Adhesive

Solvent-polyacrylate, permanent

### Technical properties

#### 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 |
|-------------------------------|-----------|----------------------------------------------------------------------------------------------------------|

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|                                      |                                                                                 |                                                                                                            |
|--------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Durability                           | 7 Year(s)                                                                       | unprinted, 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 | Mineral oils, Greases, Fuels, Aliphatic solvents, Weak acids, Salts and alkalis | with professional bonding                                                                                  |
| 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, central European normal climate                                                      |

### ADHESIVE PROPERTIES

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

### PROCESSING

|                                |                           |
|--------------------------------|---------------------------|
| Recommended printing procedure | Screen printing           |
| Application temperature        | Minimum temperature 10 °C |

### Certificates

- ORALITE 5510 - CE 0913-CPR-2015-01 - de - 2016-02-20 - Zertifikat.pdf (Download)
- 2016-02-20 Orafol 5510 0913-CPR-2015-01 Anlage UK.pdf (Download)
- DoP5510.001.20220208-DE.pdf (Download)
- ORALITE 5510 - CE 0913-CPR-2015-01 - en - 2016-02-20 - Certificate-1.pdf (Download)
- 2016-02-20 Orafol 5510 0913-CPR-2015-01 Anlage UK.pdf (Download)
- DoP5510.001.20220208-EN.pdf (Download)
- ORALITE 5510 - CE 0913-CPR-2015-01 - en - 2016-02-20 - Attachment.pdf (Download)
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### PRODUCT NOTE

The ORALITE® 5510 ENGINEER GRADE series is equipped with identification watermarks. The respective national provisions have to be considered during the application of the ORALITE® reflection film series 5510 ENGINEER GRADE. ORALITE® screen printing inks series 5010 and series 5018. Clear varnish is not required!

### 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, 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. 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](http://www.orafol.com). ORALITE® is a trademark of ORAFOL Europe GmbH.