

ORALITE® 5081

Lettering Film

ORALITE® 5081 Lettering Film is a durable, high-quality cast PVC film specially developed for lettering and marking of traffic signs. The product is excellently suited for use with various ORALITE® reflective films.

Areas of Application

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

Total thickness

- 0.05mm (Average value, without protective liner and adhesive)

Front material

Premium PVC film, cast film, 0.05 mm

Liner

Silicone cardboard coated on one side

Adhesive

Solvent-polyacrylate

Technical properties

RESISTANCE

Durability	10 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, Greases, Fuels, Aliphatic solvents, Weak acids, Salts and alkalis	with professional bonding
Maximum shrinkage	Maximum shrinkage along 0.1 mm Maximum shrinkage across 0 mm	adhered to steel FINAT TM 14 adhered to steel FINAT TM 14

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Elongation at break	Minimum elongation at break along 135 %	DIN EN ISO 527
	Minimum elongation at break across 135 %	DIN EN ISO 527
Tensile strength	Minimum tensile strength along 20 MPa	DIN EN ISO 527
	Minimum tensile strength across 20 MPa	
Seawater resistance	Tested	adhered on aluminium DIN 50021, after 100 h/ 23 °C
Temperature resistance	Minimum temperature -40 °C Maximum temperature 80 °C	adhered on aluminium

ADHESIVE PROPERTIES

Adhesive power	18 N/25 mm	after 24 h, on stainless steel Average value, FINAT TM 1
Adhesive	Permanent	Depending on the conditions of use, the final adhesive strength is reached after approx. on one day

PROCESSING

Application temperature	Minimum temperature 10 °C	At least 48 hours before and during the processing and application of the product, the environment temperature must amount to 18 °C up to 24 °C with 35 % up to 55 % relative humidity.
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PRODUCT NOTE

The substrate to be bonded must be free of dust, grease or other contamination, which can affect the adhesive strength of the material. In addition, the application information published by ORAFOL has to be considered. The ORALITE® products are manufactured in a product environment certified and controlled 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

Observe the relevant national specifications when using the ORALITE® films. 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. ORALITE® is a trademark of ORAFOL Europe GmbH.