

# ORALITE® 5081 LETTERING FILM

Technical Data Sheet

08/09

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## Description

ORALITE® 5081 LETTERING FILM is a black, non-reflective high-performance cast film on the basis of a PVC polymer blend with special polymeric, non-migrating plasticizers and UV-stabilizers which guarantees maximum light-fastness and weather resistance. The material is available with a gloss or matt surface.

ORALITE® 5081 LETTERING FILM contains an identification water mark (OR) and features maximum dimensional stability and optimum cutting and processing properties.

## Release paper

Special coated silicon paper on one side, 137 g/m<sup>2</sup>, which provides excellent waste stripping properties.

## Adhesive

Solvent polyacrylate, permanent

## Area of use

ORALITE® 5081 LETTERING FILM was especially developed for use on cutting plotters to produce long term lettering, markings and symbols on any kind of traffic signs, traffic control and guidance signs, warning and information signs, whose reflective surfaces consist of ORALITE® reflective films series 5800 HIGH INTENSITY GRADE (ASTM D 4956, Type III).

ORALITE® 5081 LETTERING FILM is suitable for long-term outdoor use (10 years).

## Technical data

<b>Thickness*</b> (without protective paper and adhesive)	50 micron
<b>Dimensional stability</b> (FINAT TM 14)	adhered to steel 0.1 mm max.
<b>Temperature resistance</b>	adhered to aluminium, -56°C to +90°C (-69°F to 194°F)
<b>Salt-water resistance</b> (DIN 50021)	adhered to aluminium, after 100h at 23°C (74°F) no variation
<b>Resistance to solvents and chemicals</b>	with expert application resistant to most oils, grease, fuels, aliphatic solvents, weak acids, salts and alkalis
<b>Resistance to cleaning agents</b>	adhered to aluminium, 8h in washalcalics (0,5% household-cleaning agents) at room temperature and 65°C, no variation
<b>Fire behaviour</b> (DIN 75200)	adhered to steel, self-extinguishing
<b>Adhesive power*</b> (FINAT TM 1, after 24h, stainless steel)	18 N/25mm (25mm = 0,98 in)
<b>Tensile strength</b> (DIN EN ISO 527)	along: 20 MPa min. across: 20 MPa min.
<b>Elongation at break</b> (DIN EN ISO 527)	along: 135% min. across: 135% min.
<b>Shelf life**</b>	2 years
<b>Application temperature</b>	> +10°C
<b>Service life by specialist application</b> under vertical outdoor exposure (standard central European climate)	10 years

\* average

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

## Attention:

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. Furthermore the application information published by ORAFOL is to be considered. The batch traceability according to ISO 9001 is possible on the basis of the roll number.

The statements in this information sheet are based upon our knowledge and practical experience. This data is intended only as a source of information and is given without guarantee and does not constitute a warranty. Due to the wide variety of possible uses and applications customers should independently determine the suitability of this material for their specific purpose, prior to use.



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