

Product 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.

Adhesive

Solvent polyacrylate, permanent

Release Paper

Special coated silicon paper on one side, 137 g/m², which provides excellent waste stripping properties.

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 are made of ORALITE® 5800 High Intensity Grade (ASTM D 4956, Type III). ORALITE® 5081 Lettering Film is suitable for long-term outdoor use (10 years).

Physical and Chemical Properties

Thickness* (without protective paper and adhesive)	50 micron
Dimensional stability (FINAT TM 14)	Applied to steel, no measurable shrinking in cross direction, in length 0.1 mm max.
Temperature resistance	Adhered to aluminium, -56° C to +90° C (-69° F to 194° F)
Salt-water resistance (DIN 50021)	Adhered to aluminium, after 100h at 23° C (74° F) no variation
Resistance to solvents and chemicals	With expert application resistant to most oils, grease, fuels, aliphatic solvents, weak acids, salts and alkalis
Resistance to cleaning agents	Adhered to aluminium, 8h in washcalics (0.5% household cleaning agents) at room temperature and 65° C, no variation
Fire behaviour (DIN 75200)	Adhered to steel, self-extinguishing
Adhesive power* (FINAT-TM 1 after 24h, stainless steel)	18 N/25 mm (25 mm = 0.98 in)
Tensile strength (DIN EN ISO 527)	Along: 20 MPa min. Across: 20 MPa min.
Elongation at break (DIN EN ISO 527)	Along: 135% min. Across: 135% min.
Shelf life**	2 years
Application Temperature	> +10° C
Service life by specialist application 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.

IMPORTANT NOTICE

When using ORALITE® sheeting the relevant national specifications have to be complied with. ORAFOL recommends you obtain the current requirements from your local authority and ensure product conformance with such requirements. Please contact ORAFOL for further information.

All Reflexite® and ORALITE® products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Published information concerning Reflexite® and ORALITE® products is based upon research which the Company believes to be reliable although such information does not constitute a warranty. Because of the variety of uses of Reflexite® and ORALITE® products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. All specifications are subject to change without prior notice.

No warranty is given for purposes other than those listed in the Technical Datasheet or which are not processed according to ORAFOL's processing and handling instructions. The durability of the signs will depend on a variety of factors, including but not limited to substrate selection and preparation, compliance with recommended application guidelines, geographic area, exposure conditions and maintenance of the product and finished sign. Sign failures caused by the substrate or improper surface preparations are not the responsibility of ORAFOL. Please refer to the full warranty document available at www.orafol.com for detailed information.

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