

## Product Description

Series ORALITE® 5051 TRANSPARENT FILM is a clear film made of high-performance casted PVC with glossy surface. The material features superior transparency combined with very good dimensional stability as well as good cutting and processing properties.

The clear film is used as a protective layer on ORALITE® reflective films printed with ORALITE® 5019 Digital Printing Ink and an ORALITE traffic sign printer, intended for short to mid-term outdoor use such as ORALITE® 5930 High Intensity Prismatic Construction Grade or ORALITE® Engineer Grade Series.

Laminates of ORALITE® 5051 TRANSPARENT FILM on white or printed reflective films of these ORALITE® series as well as coloured laminates on white reflective sheeting will continue to meet the requirements of the international specifications of this class such as EN 12899-1 (European Regulation), DIN 67520 and DIN 6171 (Germany), BS 873: Part 6 (Great Britain), NFP 98-520 (France), SN 640878 (Switzerland), ASTM D 4956 (US), JIS Z 9117 (Japan) for the specific coefficient of retroreflection and colour coordinates.

## Adhesive

The adhesive consists of a solvent polyacrylate, permanent pressure sensitive adhesive specially formulated for the application to ORALITE® sheeting surfaces, including digital and UV digital printed surfaces. The adhesive is protected by a release liner made of PET film, silicone coated on one side, 0.1 mm [0.004"] thickness.

## Colours

The following colours are available for ORALITE® 5051 TRANSPARENT FILM: Yellow (colour code 020), red (030), orange (035), blue (050), green (060).

## Application/Processing

ORALITE® 5051 TRANSPARENT FILM performs best on ORALITE® sheeting, unprinted, digitally printed or printed with ORALITE® 5019 UV digital printing inks. The surfaces to which the material will be applied must be thoroughly cleaned from dust contamination which could affect the adhesion of the material. Freshly printed surfaces should be completely cured. The compatibility of selected inks and surfaces should be tested by the user, prior to application of the material. For other applications the user is fully responsible for evaluating the suitability of the product, and for any risks associated with that use.

Please refer to the Practical Information 4.3 published by ORAFOL for full instructions or contact your ORAFOL Reflective Solutions Division representative for advice relating to the above.

**Note:** All ORALITE® products are manufactured within an ISO 9001:2015 controlled manufacturing environment and batch traceability is possible on the basis of the roll number.

## Product Data

<b>Thickness*</b> (without protective paper and adhesive)	0.050 mm (2 mils)
<b>Temperature resistance</b>	adhered to aluminium, -56° C to 90° C (-69°F to 194°F)
<b>Resistance to cleaning agents</b>	adhered to aluminium, 8h in solution (0.5% household cleaning agents) at room temperature and 65° C (150° F), no variation
<b>Adhesive power*<sup>1</sup></b> (FINAT-TMI after 24h, stainless steel)	15 N/25 mm (1 inch)
<b>Shelf life**</b>	2 years
<b>Application temperature</b>	> +10° C (50° F)
<b>Service life by specialist application***</b> under vertical outdoor exposure	Laminates with ORALITE® 5019 UV inks: up to 5 years other laminates: 7 years

\* average \*\* in original packaging, at 20°C and 50% relative humidity \*\*\*standard central European climate <sup>1</sup> 180° Peel @ 300mm (12") /min

**Note:** Values stated in SI units are to be regarded as standard. The values in parentheses are conversions and shall not be considered as the standard, as these values may be approximate.



## 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 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 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 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](http://www.orafol.com) for detailed information.

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