

Product Description

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

The film can be used as a protective film for printed ORALITE® reflective films 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 above listed ORALITE® series 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 color coordinates.

Colors

ORALITE® 5051 is available as clear transparent film (color code 000) as well as in traffic colors yellow (020), red (030) and blue (050). Additional colors can be requested through your ORAFOL representative.

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 polypropylene film, silicone coated on one side, 0.075 mm [0.003"] thickness.

Application/Processing

ORALITE® 5051 TRANSPARENT FILM performs best on ORALITE® sheeting, unprinted or printed with ORALITE® inks on flat or two- or three-dimensional curved surfaces. 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.

Note: All ORALITE® products are manufactured within an ISO 9001:2008 controlled manufacturing environment and batch traceability is possible on the basis of the roll number.

Product Data

Thickness* (without release liner)	0.080 mm
Temperature resistance	adhered to aluminium, -56°C to 90°C (-69°F to 194°F)
Resistance to cleaning agents	adhered to aluminium, 8h in solution (0.5% household agents) at room temperature and 65°C (150°F), no variation
Adhesive power* (FINAT-TM1 after 24h, stainless steel)	15 N/25mm (1 inch)
Shelf life**	2 years
Application temperature	> +10°C (50°F)
Service life by specialist application***	Up to 7 years

* average ** in original packaging, at 20°C and 50% relative humidity ***vertical application in standard central European climate, max. up to the durability of the laminated base film or durability statement of the base film/ink/laminate product combination. Certain environmental conditions such as high UV radiation or maritime climate might reduce the lifetime.

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 maybe approximate.



IMPORTANT NOTICE

All ORAFOL products are subject to careful quality control throughout the entire manufacturing process, and it is ensured that they are of merchantable quality and free from manufacturing defects. The information published is based on our analyses and studies and does not constitute any warranted properties or any agreement as to quality. Due to the diverse possibilities of use of ORAFOL products and the constant development of new applications, the buyer should carefully consider the suitability and performance of the product for the respective purpose; it bears all risks associated with such use. No warranty is given for purposes other than those listed in the Technical Data Sheet or for applications that are not processed in accordance with ORAFOL's processing instructions.

The durability of the end product depends upon a variety of factors, including but not limited to substrate selection and preparation, compliance with the recommended application guidelines, geographical area, exposure conditions and maintenance of the ORAFOL material and of the end product. Product defects caused by the substrate or improper surface preparation do not lie within ORAFOL's sphere of responsibility.

When using ORAFOL products, the pertinent national regulations are to be observed. ORAFOL recommends that you obtain the current stipulations from your local authority and ensure that the product meets these requirements. Please contact ORAFOL for further information.

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