

Description

Series ORALITE® 5051 TRANSPARENT FILM are transparent coloured, high-performance cast films on the basis of a PVC polymer blend. The material features excellent transparency, outstanding dimensional stability and optimum cutting and processing properties.

It is guaranteed that the colour-laminates of the series ORALITE® 5051 TRANSPARENT FILM on the white reflective films of the ORALITE® 5700 / 5710 ENGINEER GRADE fulfill 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.

Surface

Polymer PVC film

Adhesive

Solvent polyacrylate, permanent, transparent

Release paper

polyester film, silicone coated one side, reverse treated, 0.100 mm (0.004 in)

Area of use

ORALITE® 5051 TRANSPARENT FILM has been developed especially as laminate for ORALITE® reflective films 5700 / 5710 ENGINEER GRADE. ORALITE® 5051 TRANSPARENT FILM has been especially developed for use on cutting plotters to produce marking and symbols on traffic signs, traffic control and guidance signs, warning and information signs. ORALITE® 5051 TRANSPARENT FILM offers a profitable alternative for screen printing especially when small numbers of a product are required. ORALITE® 5051 TRANSPARENT FILM is suitable for long-term outdoor use (7 years).

The relevant national regulations must be taken into account when applying ORALITE® 5051 TRANSPARENT FILMS on ORALITE® reflective films.

Colours

ORALITE® 5051-020 yellow

ORALITE® 5051-030 red

ORALITE® 5051-050 blue

Technical data

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.



ORALITE®

5051 Transparent Film

Technical Data Sheet

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Thickness* (without protective paper and adhesive)	50 micron (0.002 in)
Dimensional stability (FINAT TM 14)	applied on steel, no measurable shrinking in cross direction, in length direction 0.1 mm (0.0039 in)
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 washalcalics (0,5% household-cleaning agents) at room temperature and 65°C, no variation
Adhesive power* (FINAT TM 1, after 24h, stainless steel)	18 N/25mm (25mm = 0,98 in)
Shelf life**	2 years
Application temperature	> +10°C (+50°F)
Service life by specialist application under vertical outdoor exposure (standard central European climate)	7 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.

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