

# ORACAL 1050 High Performance Vinyl

Technical Data Sheet

08/42

## Description

High performance PVC film, which ensures excellent light-fastness and weather resistance. Surface glossy (G) in black, white and transparent and matt (M) in black and white.

## Release paper

Silicone coated on one side, 135 g/m<sup>2</sup>.

## Adhesive

Solvent polyacrylate, permanent

## Area of use

For lettering, marking, and decoration with highest requirements for durability and service life. Particularly suited for high quality vehicle and public transport system advertising.

For use on cutting plotter systems and for high-quality screen printing.

## Printing method

Screen printing, UV-offset printing and flexoprinting are recommended.

## Technical data

<b>Thickness*</b> (without protective paper and adhesive)	100 micron
<b>Dimensional stability</b> (FINAT TM 14)	adhered to steel, no measurable shrinkage in cross direction, in length 0.2 mm max.
<b>Temperature resistance</b>	adhered to aluminium, -40°C to +90°C, no variation
<b>Seawater resistance</b> (DIN 50021)	adhered to aluminium, after 100h/23°C no variation
<b>Resistance to solvents and chemicals</b>	at room temperature, 72h after adhesion to aluminium, resistant to most mineral oils and fats, fuels, aliphatic solvents, mild acids, salts and alcalics
<b>Fire behavior</b> (DIN 75200)	adhered to steel, self-extinguishing
<b>Adhesive power*</b> (FINAT TM 1, after 24h, stainless steel)	20 N/25 mm
<b>Tensile strength</b> (DIN EN ISO 527)	
along	min. 19 MPa
across	min. 19 MPa
<b>Elongation at break</b> (DIN EN ISO 527)	
along	min. 130%
across	min. 150%
<b>Shelf life**</b>	2 years
<b>Application temperature</b>	> +8°C
<b>Service life by specialist application</b> under vertical outdoor exposure (normal climate of Central Europe)	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. Freshly lacquered or painted surfaces should be allowed to dry for at least three weeks and to completely cure respectively. The compatibility of selected lacquers and paints should be tested by the user, prior to application 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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