

**Description**

Premium Cast PVC film with outstanding dimensional stability and optimum application characteristics. High gloss finished surface, several colours also in matt. Excellent keeping of high gloss level even after mechanical stress.

**Release paper**

PE-coated release paper on both sides, 165 g/m<sup>2</sup>, 180 micron

**Adhesive**

Solvent polyacrylate, repositionable, permanent, grey

**Area of use**

Particularly developed for car wrapping with highest requirements for durability and solidity. The "Rapid Air" technology enables easy and quick application without air inclusion, especially of large-sized applications. Entrapped air can be easily removed simply by rubbing out under the film. For more curved surfaces such as corrugations or rivets these films are generally to be handled like calendered films. Good removability with appropriate equipment.

**Printing method**

Very good suitable for screen printing

**UV resistance**

Colours police blue (572), police green (612) and taxi beige (809):

Exposure to Xenon light according to VW standard PV 3930 (Test Report nr. 21 05 50151 and 21 05 50201)

**Technical Data**

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| <b>Thickness*</b> (without protective paper and adhesive)  | 100 micron   |
| <b>Dimensional stability</b> (FINAT TM 14)   | adhered to steel shrinkage 0.1 mm max.   |
| <b>Temperature resistance***</b>   | adhered to aluminium, -50°C to +100°C, no variation  |
| <b>Sea water resistance</b> (DIN 50021)  | adhered to aluminium, after 100 h/23°C no variation  |
| <b>Resistance to solvents and chemicals</b>  | at room temperature, 72h after adhesion to aluminium, short-term resistant to most oils and greases, fuels, aliphatic solvents, weak acids, salts and alkalis  |
| <b>Fire behaviour</b> (DIN 75200)  | adhered to steel, self-extinguishing   |
| <b>Adhesive power*</b><br>(FINAT TM 1, after 24h, stainless steel)   | 18 N/25 mm   |
| <b>Tensile strength</b> (DIN EN ISO 527)   | along: min. 21 MPa<br>across: min. 21 MPa  |
| <b>Elongation at break</b> (DIN EN ISO 527)  | along: min. 150%<br>across: min. 150%  |
| <b>Shelf life**</b>  | 2 years  |
| <b>Application temperature</b>   | > +8°C   |
| <b>Service life by specialist application</b><br>under vertical outdoor exposure<br>(normal climate of Central Europe) | black / white: vertical: 10 years; horizontal: 6 years<br>coloured: vertical: 8 years; horizontal: 5 years<br>metallic: vertical: 6 years; horizontal: 3 years |

\* average

\*\* in original packaging, at 20°C and 50% relative humidity

\*\*\* normal climate of Central Europe

**Note**

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 completely cured. Films with matt surface are naturally more sensitive than the glossy. Accordingly, these films are to be treated carefully both in processing and in cleaning. Impurities affect the appearance of matt films and require more frequent cleaning. The compatibility of selected lacquers and paints should be tested by the user, prior to application of the material. If the film is used for printing the ink must be thoroughly dried in order to avoid any effect on the later combination with a laminating film as well as on the adhesive power and on the durability of the system. 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.

# ORACAL<sup>®</sup>

## 970 RA

Technical Data Sheet

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