ORACAL®

# Metallized

**351** Polyester Film

**352** Print Polyester

**381** Ultramirror Cast

**383** Ultraleaf Cast

ORACAL®

SPECIALITY

ORACAL

# TECHNICAL INFORMATION · SERIES 381 · SERIES 383

**381** Ultramirror Cast **383** Ultraleaf Cast

## Description

Self-adhesive polymeric cast films. The films are featured by a smooth printable surface and durable dimensional stability. Using a permanent acrylic adhesive excellent adhesion to a variety of surfaces is realized for long-term outdoor application. Available in chrome and glossy gold.

## Surface

381 Ultramirror: high glossy
383 Ultraleaf: three dimensional visionary texture

## Release paper

Silicone coated paper on one side, 135 g/m²

## Pressure sensitive adhesive

Solvent based polyacrylate, permanent.

## Areas of use

Specially developed as unique pressure sensitive films for lettering, marking and decoration of vehicles, windows and signs with highest requirements for long outdoor durability.

## Technical data

| | |
|---|---|
| **Thickness*** (without protective paper and adhesive): | 85 micron |
| **Dimensional stability** (FINAT TM 14): | adhered to steel, shrinkage in cross and in length direction 0.25 mm max. |
| **Temperature resistance:** | -54°C to +71°C no variation |
| **Resistance to solvents and chemicals** | resistant to most petroleum based oils and greases, aliphatic solvents, mild acids, salts and alkalis |
| **Adhesive power*** (FINAT TM 1, after 24 h, stainless steel) | 16 N/25 mm |
| **Tensile strength** (DIN EN ISO 527) | along: min. 17 MPa across: min. 17 MPa |
| **Elongation at break** (DIN EN ISO 527) | along: min. 35 % across: min. 35 % |
| **Shelf life**:** | 2 years |
| **Application temperature:** | min. + 10°C |
| **Service life by specialist application** under vertical outdoor exposure (normal climate of Central Europe) | **5 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 informations published by ORAFOL are to be considered.

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.

ORACAL®

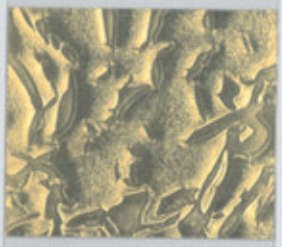
## 381 Ultramirror Cast

001 chrome

003 gold gloss

## 383 Ultraleaf Cast

001 chrome

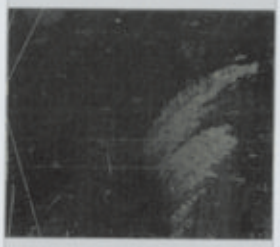


003 gold gloss

## 351 Polyester Film

001 chrome

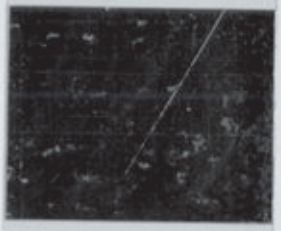
002 matt chrome



911 gold-coated on both sides

## 352 Print Polyester

000 transparent



001* chrome

002 matt chrome

907** chrome brushed

003 gold gloss

911* gold-coated on both sides

* Also available as 50 micron PETP film (chrome gloss -901, gold-coated on both sides -912)
** Only in 50 micron



SPECIALITY

ORACAL® SPECIALITY

# TECHNICAL INFORMATION · SERIES 351 · SERIES 352

## 351 Polyester Film

### Description
Metallized polyester film with excellent dimensional stability and good long-term ageing properties. Specially designed for use on computer-cut equipment. Surface with top-coat for printing. Available in chrome, matt chrome and double-sided glossy gold.

### Release paper
Silicone coated paper on one side, 137 g/m², which provides excellent waste-stripping properties. For white vinyl a light blue silicone paper is used to form a stronger contrast to lettering.

### Adhesive
Solvent polyacrylate, permanent.

### Area of use
For first class decorative labels, name and technical plates, decoration and moldings, safety stickers as well as cut lettering and symbols. Particulary suitable for decoration of transparent substrates. Suitable for screen-printing and offset-printing.

## 352 Print Polyester

### Description
Transparent or metallized polyester film with excellent dimensional stability and good long-term ageing properties. Surface with top-coat for printing.

### Release paper
PE-coated release paper on both sides, 160 g/m².

### Adhesive
Solvent polyacrylate, permanent.

### Area of use
For first class decorative labels, name and technical plates, decoration and moldings, safety stickers.

### Printing methods
Screen printing and UV-offset printing are recommended.

## Technical data

**Thickness*** (without protective paper and adhesive):
23 micron

**Dimensional stability** (FINAT TM 14):
adhered to steel, no measurable shrinkage in cross direction, in length 0.1 mm max.

**Temperature resistance:**
adhered to aluminium, -40°C to +120°C, no variation

**Seawater resistance:** (DIN 50 021):
adhered to aluminium, after 100 h/23°C no variation

**Resistance to cleaning agents:** adhered to aluminium, 8 h in car wash (0.5% household cleaner at room temperature and at 65°C), no variation

**Adhesive power*** (FINAT TM 1, after 24 h, stainless steel)
12 N/25 mm

**Tensile strength** (DIN EN ISO 527)
along: min. 200 MPa across: min. 300 MPa

**Elongation at break** (DIN EN ISO 527)
along: min. 120 % across: min. 85 %

**Shelf life**:** 2 years

**Application temperature:** min. + 8°C

**Service life by specialist application** under vertical outdoor exposure (normal climate of Central Europe)
**chrome and matt chrome 2 years,**
**gold 1 year**

**Thickness*** (without protective paper and adhesive):
23 micron (transparent, chrome, matt chrome, gloss gold, gloss gold on both sides)
50 micron (chrome, brushed silver, gloss gold on both sides)

**Dimensional stability** (FINAT TM 14):
adhered to steel, no measurable shrinkage in cross direction, in length 0.10 mm max.

**Temperature resistance:**
adhered to aluminium, -40°C to +120°C, no variation

**Seawater resistance:** (DIN 50021):
adhered to aluminium, after 100 h/23°C no variation

**Adhesive power*** (FINAT TM 1 after 24 h, stainless steel)
12 N/25 mm

**Tensile strength** (DIN EN ISO 527)
along: min. 200 MPa across: min. 260 MPa

**Elongation at break** (DIN EN ISO 527)
along: min. 125 % across: min. 80 %

**Shelf life**:** 2 years

**Application temperature:** min. + 8°C

**Service life by specialist application** under vertical outdoor exposure (normal climate of Central Europe)
**2 years,**
**gold 1 year**

*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 informations published by ORAFOL are to be considered.

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.

06/07

ORAFOL Europe GmbH
Am Biotop 2 · D-16515 Oranienburg
Telefon +49 (0) 33 01/ 8 64 - 0
Telefax +49 (0) 33 01/ 8 64 - 100
verkauf@orafol.de · www.orafol.de

EN 9100 DNV Certified Company
EN ISO 14001 DNV Certified Company

ORACAL SPECIALITY