

# ORACAL® 970RA

## Premium Wrapping Cast with RapidAir® Technology

### Description

4.25-mil, premium wrapping cast PVC film with a built-in protective clear coat layer. This film has outstanding dimensional stability and optimum application characteristics. Available in 126 gloss, matte and metallic colors.

### Release Liner

88# PE-coated silicone paper featuring advanced air release technology to facilitate quicker, easier application

### Adhesive

Grey, solvent-based, repositionable, permanent adhesive that with heat can be removed with little or no adhesive residue for up to four years

### Area of Use

Specially developed for long-term, complete wraps of fleet and motor sport vehicles in solid, opaque colors. Conforms over curved surfaces, rivets and corrugations. Does not require overlaminates.

### Technical Data

<b>Thickness*</b> (without liner and adhesive)	4.25-mil
<b>Dimensional Stability</b> (FINAT TM-14)	Adhered to steel, no shrinkage in cross direction; In length, <.004"
<b>Temperature Resistance**</b>	Adhered to aluminum, -58°F to +248°F, no variation
<b>Resistance to solvents and chemicals</b>	At room temperature, 72h after adhesion to aluminum, short-term resistance to most oils and greases, fuels, aliphatic solvents, weak acids, salts and alkalis
<b>Fire Behavior</b> (DIN 75200) <b>Fire Rating</b>	Adhered to steel, self-extinguishing ASTM E 84-07 Class "A"
<b>Adhesive Power*</b> (FINAT TM-1, after 24 h, average)	Adhered to stainless steel: 3.65 lb/in
<b>Tensile Strength</b> (DIN EN ISO 527)	Along: Min. 21 MPa Across: Min. 21 MPa
<b>Elongation at Break</b> (DIN EN ISO 527)	Along: Min. 150% (metallic: 120%) Across: Min. 150% (metallic: 120%)
<b>Seawaterability</b> (DIN 50 021)	Adhered to aluminum, after 100h/95°F, no variation
<b>Shelf Life***</b> (68°F/50% relative humidity)	2 years
<b>Minimum Life Expectancy****</b>  (bracketed durability used for applications onto all types of watercrafts)	12 (10) years – black and white 10 (8) years – color 5 (4) years – metallic 3 (2) years – bronze, copper, graphite metallic, matte imperial red pearl, nacre, orient brown metallic, pyrite, red gold L metallic
<b>Minimum Application Temperature</b>	59°F
<b>Available Lengths</b> <b>Available Widths</b>	75' (25-yard), 30' (10-yard) 60"

\*average \*\*short-term exposure \*\*\* in original packaging, at 68°F and 50% relative humidity \*\*\*\* standard central European climate vertical outdoor exposure

### 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. The compatibility of selected lacquers and paints should be tested by the user, prior to application of the material. Films with structured surface are naturally more sensitive than the



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unstructured. Accordingly, these films are to be treated carefully both in processing and in cleaning. Impurities affect the appearance of structured films and require more frequent cleaning. 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.

## IMPORTANT NOTICE

All ORACAL® products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Published information concerning ORACAL® products is based upon research which the Company believes to be reliable although such information does not constitute a warranty. Because of the variety of uses of ORACAL® products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. All specifications are subject to change without prior notice.

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



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# ORACAL® 970RA

## Premium Shift Effect Cast with RapidAir® Technology

### Description

4.25-mil, multi-layered, high performance cast PVC wrapping film engineered with cutting edge technology that produces mesmerizing multi-color effects. This unique shade shifting occurs as a result of your viewing angle and incidence of light. Shift your view and the color change begins. Available in 19 colors including gloss and matte finishes.

### Release Liner

88# PE-coated silicone paper featuring advanced air release technology to facilitate quicker, easier application

### Adhesive

Grey, solvent polyacrylate, repositionable, permanent adhesive that with heat can be removed with little or no adhesive residue for up to four years

### Area of Use

Specially developed for short- to medium-term, complete wraps of fleet and motor sport vehicles in solid, opaque colors. Conforms over curved surfaces, rivets and corrugations. Does not require overlaminates.

### Technical Data

<b>Thickness*</b> (without liner and adhesive)	4.25-mil
<b>Dimensional Stability</b> (FINAT TM-14)	Adhered to steel, shrinkage <.004"
<b>Temperature Resistance**</b>	Adhered to aluminum, -58°F to +248°F, no variation
<b>Fire Behavior</b> (DIN 75200) <b>Fire Rating</b>	Adhered to steel, self-extinguishing ASTM E 84-07 Class "A"
<b>Adhesive Power*</b> (FINAT TM-1, after 24 h)	Adhered to stainless steel: 3.65 lb/in
<b>Tensile Strength</b> (DIN EN ISO 527)	Along: Min. 21 MPa Across: Min. 21 MPa
<b>Elongation at Break</b> (DIN EN ISO 527)	Along: Min. 120% Across: Min. 120%
<b>Seawaterability</b> (DIN 50021)	Adhered to aluminum, after 100h/95°F, no variation
<b>Shelf Life***</b>	2 years
<b>Minimum Life Expectancy****</b> (bracketed durability used for applications onto all types of watercrafts)	4 (2) years
<b>Minimum Application Temperature</b>	59°F
<b>Available Lengths</b> <b>Available Widths</b>	75' (25-yard), 30' (10-yard) 60"

\*average    \*\*short-term exposure    \*\*\* in original packaging, at 68°F and 50% relative humidity    \*\*\*\* standard central European climate vertical outdoor exposure

### 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. The compatibility of selected lacquers and paints should be tested by the user, prior to application of the material. Films with structured surface are naturally more sensitive than the unstructured. Accordingly, these films are to be treated carefully both in processing and in cleaning. Impurities affect the appearance of structured films and require more frequent cleaning. 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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# ORACAL® 970RA

## Premium Special Effect Cast with RapidAir® Technology

### Description

4.25-mil, multi-layered, high performance cast PVC wrapping film engineered with cutting edge technology. Designed specifically for vehicle wrapping applications, ready-to-use straight out of the box with a built-in protective clear coat. Available in 9 colors including gloss and matte finishes.

### Release Liner

88# PE-coated silicone paper featuring advanced air release technology to facilitate quicker, easier application

### Adhesive

Grey, solvent polyacrylate, repositionable, permanent adhesive that, with heat, can be removed with little or no adhesive residue for up to four years

### Area of Use

Specially developed for short- to medium-term, complete wraps of fleet and motor sport vehicles in solid, opaque colors. Conforms to curved surfaces, rivets and corrugations. Does not require an overlamine.

### Technical Data

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<b>Tensile Strength</b> (DIN EN ISO 527)	Along: Min. 21 MPa Across: Min. 21 MPa
<b>Elongation at Break</b> (DIN EN ISO 527)	Along: Min. 120% Across: Min. 120%
<b>Seawaterability</b> (DIN 50021)	Adhered to aluminum, after 100h/73.4°F, no variation
<b>Shelf Life***</b>	2 years
<b>Minimum Life Expectancy****</b> (bracketed durability used for applications onto all types of watercrafts)	4 (2) years
<b>Minimum Application Temperature</b>	59°F
<b>Available Lengths</b> <b>Available Widths</b>	75' (25-yard), 30' (10-yard) 60"

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