

# ORACAL® 970RA

## Premium Special Effect Cast with RapidAir® Technology

Technical Datasheet

10/24

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### Description

ORACAL® 970RA is a 4.25-mil multi-layered, high performance cast PVC wrapping film designed to replicate an automotive paint-like finish. With over 140 colors and finish options, you can find the perfect style to take your vehicle from ordinary to extraordinary. Our gloss finish is unrivaled due to its unique dual-layer construction that gives your vehicle the “wet paint” look. But if you want to stand out, try our matte finish -- nothing sets off the lines of a car like a matte or metallic matte finish. Because ORACAL® 970RA has served in both commercial and consumer applications for many years, you can trust our product's reliability and durability.

One of the standout features of ORACAL 970RA premium wrapping films is the non-directional nature. Unlike most other wrap films, these films do not have a specific direction in which the color or finish should flow. This means that installers can approach each panel with confidence, knowing that the visual consistency will be maintained, regardless of the orientation.

ORACAL® 970RA is available in three distinct varieties, each catering to specific preferences and design aspirations:

#### 1. Premium Wrapping Cast:

- Traditional metallic and non-metallic color palettes.
- Matte and gloss finishes to suit available in many color options.
- Elevate your vehicle's exterior with timeless elegance or an aggressive look like no other.

#### 2. Premium Shift Effect Cast:

- Color-shifting chameleon-like gloss and matte finishes.
- Embrace a dynamic, ever-changing appearance that captivates attention.
- Transform your vehicle into a canvas of shifting hues that mesmerize onlookers.

#### 3. Premium Special Effect Cast:

- Candy colors and intense metallic gloss and matte finishes.
- Infuse your vehicle with a burst of personality through vibrant hues and striking effects.
- Make a statement on the road with a finish that goes beyond the ordinary.

### 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

### Film Construction

Cast PVC Wrapping Film

### Colors + Finishes

Available in 18 colors and finishes, including 13 high gloss, 4 high gloss sparkling, and 2 matte

### Applications

- 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.



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Phone: 800.654.7570

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2831 Bristol Circle  
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### Splice Free Guarantee

Our Splice Free Guarantee assures you that every roll of ORAGUARD® over-laminate is free from splices. If you identify a verifiable splice, we will promptly replace the roll at no cost and provide you with \$500 as a token of our commitment to your satisfaction and uninterrupted graphic production experience.

### 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/73.4°F, no variation
<b>Shelf Life***</b>	2 years
<b>Maximum Life Expectancy****</b> (bracketed durability used for applications onto all types of watercrafts)	4 (2) years 5 (4) years – 182, 172, 185, 175, 183, 173, 181, 171
<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 Climate Zone 1, vertical exposure. For complete Climate Zone Durability expectations, please refer to the ORAFOL Americas General Warranty.

### 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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### 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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