ORACAL® 970RA

Premium Wrapping Cast

Short description

Multi-layer, high-performance PVC film cast using optimized technology, developed for full vehicle wrapping without additional lamination. High-gloss surface and many colours also available in matt, plus black in super matt. Specially developed for vehicle wrapping. The RapidAir® technology enables easy and quick application, without air inclusion, especially in large scale applications. Entrapped air can be easily removed by smoothing it out under the film. The special adhesive allows bonding to painted substrates, even on uneven and curved surfaces as well as in beads and over rivets. The material can be removed in the adhered state using suitable aids. Premium Structure Cast films are only suitable for decorative surface finishing on vehicle parts. These films must be worked into, cut and overlapped for strongly curved surfaces and in beads and over rivets.

Front material

Cast PVC film, cast film, 0.11 mm

Liner

RapidAir paper PE-coated on both sides, siliconised on one side, 143 g/m²

Adhesive

Solvent-polyacrylate, permanent, Transparent, repositionable, 0.03 mm

Technical properties

RESISTANCE

Durability	with vertical outdoor exposure, normal Central European climate	
	12 Year(s)	black, white, Maximum durability with professional processing and proper care and use applies to vertical outdoor weathering and a normal Central European climate
	10 Year(s)	black and white, for maritime applications
	10 Year(s)	coloured, maximum durability with professional processing and proper care and use applies for vertical outdoor weathering and central European normal climate
	8 Year(s)	coloured, for maritime applications
	5 Year(s)	metallic, maximum durability with professional processing and proper care and use applies to vertical outdoor weathering and a normal Central European climate

ORAFOL Europe GmbH
Orafolstrasse 1
D-16515 Oranienburg
Germany

Tel: +49 (0)3301 864-0
graphic.solutions@orafol.de
www.orafol.com

ORACAL® 970RA

Premium Wrapping Cast

	4 Year(s)	metallic, textured, for maritime applications
	4 Year(s)	shift and special effect
	3 Year(s)	shift and special effect, for maritime applications
	3 Year(s)	Copper, oriental brown metallic, maximum durability with professional processing and proper care and use, applies for vertical outdoor weathering and central European normal climate
	2 Year(s)	Copper, Oriental Brown Metallic, Bronze, Pyrite, Graphite Metallic, Rose Gold L Metallic, Mother-of-Pearl, for maritime applications
Shelf Life	2 Year(s)	in original packaging, at 20 °C and 50% relative humidity
Resistance to solvents and chemicals	Oils, Greases, Fuels, Weak acids, Salts and alkalis, Isopropyl alcohol, Washing suds (0.5 % household cleaner)	At room temperature
Maximum shrinkage	Maximum shrinkage along 0.1 mm Maximum shrinkage across 0 mm	adhered to steel | FINAT TM 14
Elongation at break	Minimum elongation at break along 150 % Minimum elongation at break across 150 %	DIN EN ISO 527
	Minimum elongation at break along 120 % Minimum elongation at break across 120 %	metallics, DIN EN ISO 527
	Minimum elongation at break along 35 % Minimum elongation at break across 35 %	Structure, DIN EN ISO 527
Tensile strength	Minimum tensile strength along 21 N/mm^2 Minimum tensile strength across 21 N/mm^2	DIN EN ISO 527
Seawater resistance	no change	after 100h/35°C | adhered to aluminum, DIN EN ISO 9227
Temperature resistance	Minimum temperature -40 °C Maximum temperature 80 °C	Short-term exposure up to 110 °C |

ORAFOL Europe GmbH
Orafolstrasse 1
D-16515 Oranienburg
Germany

Tel: +49 (0)3301 864-0
graphic.solutions@orafol.de
www.orafol.com

ORACAL® 970RA

Premium Wrapping Cast

ADHESIVE PROPERTIES		
Adhesive power	16 N/25 mm	after 24 h stainless steel | FINAT TM 1, average value

PROCESSING	
Application temperature	Minimum temperature 10 °C

Certificates

- 970GRA-010 Test Certificate BS5609 Section 2.pdf (Download)
- 970GRA-010 Test Certificate BS5609 Section 2.pdf (Download)
- 970GRA-010 Test Certificate BS5609 Section 2.pdf (Download)
- 970GRA-010 Test Certificate BS5609 Section 2.pdf (Download)
- 970GRA-010 Test Certificate BS5609 Section 2.pdf (Download)
- 970GRA-010 Test Certificate BS5609 Section 2.pdf (Download)
- ORACAL 970RA DIN EN 45545-2.pdf (Download)
- ORACAL 970RA DIN EN 45545-2.pdf (Download)

PRODUCT NOTE

Surfaces to which the material will be applied must be thoroughly cleaned and free from dust, grease or any other contamination that 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. The compatibility of selected lacquers and paints should be tested by the user, prior to application of the material.

IMPORTANT NOTES

All ORACAL® products are subject to careful quality control throughout the manufacturing process. It is guaranteed that the products are delivered in merchantable quality and free of manufacturing defects. The traceability of our goods in accordance with ISO 9001 is ensured by means of the roll number. The information published on ORACAL® products is based on research results which the company believes to be reliable, but which do not constitute a guarantee. Because of the wide variety of uses of ORACAL® products and the continuing development of new applications, it is the responsibility of the purchaser to carefully evaluate the suitability and performance of the product for its intended use. Furthermore, the processing instructions issued by ORAFOL must be observed. The purchaser bears all risks arising from the use of these products. All information is subject to change without notice. ORACAL® is a registered trademark of ORAFOL Europe GmbH.

ORAFOL Europe GmbH
Orafolstrasse 1
D-16515 Oranienburg
Germany

Tel: +49 (0)3301 864-0
graphic.solutions@orafol.de
www.orafol.com