

ORACAL® 631

Economical Removable Plotter Film

Technical Datasheet
05/2026
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Description

ORAFOL's ORACAL® 631 plotter film offers a versatile and economic solution for various graphic applications. With its wide array of over 76 luxurious matte finish colors, it caters to diverse design needs. The specially formulated adhesive ensures clean removal from most smooth sealed surfaces within three years of application, leaving behind no residue. Its matte finish not only enhances aesthetics by reducing light glare but also allows graphics to stand out tastefully.

Ideal for indoor and short-term outdoor projects, ORACAL® 631 finds applications in museum displays, exhibitions, craft projects, home décor, as well as wall and window graphics. However, for those seeking a more permanent option, alternatives like ORACAL® 641 Economical Permanent Plotter Film or the higher-grade ORACAL® Series 651™ Intermediate Calendered Plotter Film are recommended. These options provide greater durability and longevity, catering to projects with extended outdoor exposure or requiring a longer-lasting solution.

Release Liner

83# custom silicone-coated paper with special release characteristics that provide excellent weeding and release values. Customized blue silicone paper liner for white face film provides superior contrast for weeding.

Adhesive

Clear, water-based, removable

Durability

- 3 years colors/metallics/transparent *Vertical Exposure/Climate Zone 1*

Applications

- Flat, short-term applications
 - Interior and exterior general signage
 - Architectural window graphics
 - Point of purchase graphics
 - Craft and home décor graphics
 - Museum and exhibition graphics

Recommended Application Tape

- ORATAPE® HT55 (paper)
- ORATAPE® MT95 (clear conformable)

Splice Free Guarantee

Our Splice Free Guarantee assures you that every roll of ORAJET® digital print media 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 printing experience.



ORAFOL Americas – GA
1100 Oracal Parkway
Black Creek, GA 31308
Phone: 888.672.2251

ORAFOL Americas – CT
120 Darling Drive
Avon, CT 06001
Phone: 800.654.7570

ORAFOL Canada
2831 Bristol Circle
Oakville, Ontario L6H 6X5
Phone: 888.727.3374

techsupport-americas@orafol.com – www.orafol.com

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Thickness (without liner and adhesive)	3-mil
Dimensional Stability (FINAT TM-14)	Adhered to steel, no shrinkage in cross direction; In length, <.016"
Temperature Resistance	Adhered to aluminum, -40°F to +176°F, no variation
Fire Behavior (DIN 75200) Fire Rating	Adhered to steel, self-extinguishing ASTM E 84-07 Class "A"
Adhesive Power (FINAT TM-1, after 24 h, average)	Adhered to stainless steel: 1.6 lb/in
Tensile Strength (DIN EN ISO 527)	Along: Min. 19 MPa Across: Min. 19 MPa
Elongation at Break (DIN EN ISO 527)	Along: Min. 130% Across: Min. 150%
Seawaterability (DIN 50 021)	Adhered to aluminum, after 48h/73°F, no variation
Shelf Life (68°F/50% relative humidity)	2 years
Minimum Life Expectancy (based on accepted application procedures on vertical surfaces)	3 years
Minimum Application Temperature (Humidity levels greater than 50% are recommended for proper adhesion.)	50°F
Available Lengths Available Widths	150' (50-yard) and 30' (10-yard) 15" (punched), 24", 30", 48"
Recommended Application Tapes	ORATAPE® HT55, MT95



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Note

Extra precaution should be used when applying wall graphics to "Low VOC" or "Zero VOC" paints as these paints may exhibit lower adhesion levels. 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.

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 may expose you to chemicals which are known in the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to – [P65Warnings.ca.gov](https://www.P65Warnings.ca.gov)



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