

ORAGUARD® 279 PREMIUM PVC-FREE LAMINATING FILM

Description

2-mil, premium high-performance polyurethane (PU) (PVC-Free) over-laminate, transparent with a high-gloss (G) or semi-gloss (SG) surface. Highest level of UV resistance. Conforms over complex curves and recesses. Better abrasion resistance than standard PVC film. Won't yellow or crack and also has self-healing properties. Excellent durability in extreme environments such as tropical, arid, extreme cold, and industrial environments. Best horizontal protection performance in the industry.

Release Liner

55# silicone-coated paper

Adhesive

Clear, solvent-based, permanent

Area of Use

The industry's first cast polyurethane non-PVC over-laminate. For the protection of digitally printed large format images in indoor and outdoor graphic applications. Recommended for use with PVC-free digital printing film ORAJET® 3971RA + ProSlide® Premium Digital Printing Cast Polyurethane with RapidAir® + ProSlide® technology.

Technical Data

Thickness (without liner and adhesive)	2-mil
Dimensional Stability (FINT TM 14)	Adhered to steel, shrinkage 0.004 max.
Temperature Resistance	Adhered to aluminum, -58°F to +212°F, no variation
Adhesive Power (FINAT TM-1, after 24 h, average)	Adhered to stainless steel: 2.74 lb/in
Tensile Strength (DIN EN ISO 527)	Along: Min. 15 MPa Across: Min. 15 MPa
Elongation at Break (DIN EN ISO 527)	Along: Min. 150% Across: Min. 150%
Seawaterability (DIN 50 021)	Adhered to aluminum, after 100h/73°F, no variation
Resistance to Solvents and Chemicals	At room temperature, 72h after adhesion to aluminum, short-term resistant to most oils and greases, fuels, aliphatic solvents, weak acids, salts and alkalis
Shelf Life (68°F/50% relative humidity)	2 years
Minimum Life Expectancy (based on accepted application procedures on vertical surfaces, normal climate of Central Europe)	10 years
Minimum Application Temperature	> +46°F
Available Lengths Available Widths (in inches)	150' (50-yard), 75' (25-yard) 54, 60
Recommended to be used in combination with	ORAJET® Series 3971RA, 3951RA, 3951GPS, 3981RA, 3981GPS, 5600, 5650RA, 5600RA
UV Protection Extension Factor	+ 5 years



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

ORAGUARD® 279 PREMIUM PVC-FREE LAMINATING FILM

Technical Datasheet
10/2023
Page 2 of 2

For best results, utilize ORAFOL ICC profiles available at www.orafol.com and allow solvent-based inks to dry for at least 24 hours (48-72 hours preferred) at 70°F before cutting the graphic to the ink or applying a laminate.

Isopropyl Alcohol – May haze when wiped down with Isopropyl Alcohol. Instead, simply wipe/clean the surface with a mild detergent and water mixture when necessary.

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.

IMPORTANT NOTICE

All ORAGUARD® 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 ORAGUARD® 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 ORAGUARD® 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.



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

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