

ORAJET® 3971RA+PROSLIDE® PREMIUM DIGITAL PRINTING CAST PU WITH RAPIDAIR® + PROSLIDE® TECHNOLOGY

Technical Datasheet
04/2023
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Description

2-mil, premium cast polyurethane (PU) (PVC-Free) film with a low-initial-tack adhesive, white gloss surface. Optimized repositionability and air-egress technology. Conforms over complex curves and recesses. 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. Easier to install and finish than legacy extruded polyurethane wrap film and laminate combinations.

Release Liner

88# PE-coated silicone paper featuring *RapidAir*® + *ProSlide*® technology to facilitate quicker, easier application

Adhesive

Grey, solvent polyacrylate, repositionable, low-initial-tack, removable with heat
Cleanly removes up to 4 years from most well-conditioned OEM automotive paint systems.

Area of Use

The industry's first cast polyurethane non-PVC wrapping film! For long-term vehicle wrap and spot graphic applications requiring a superior degree of printability and durability. The *ProSlide*® adhesive technology enables the installer to easily position the wrap film into place due to its optimized repositionability. The *RapidAir*® technology makes installations quicker and easier by allowing air bubbles to easily escape underneath the film, especially for large format panel applications and spot graphics. Realize significant time savings when using ORAJET® films featuring *RapidAir*® with *ProSlide*® adhesive technology for long-term outdoor signage, commercial restyling wraps, and boat wraps. Overall lower cost of ownership over the life of the wrap, due to easier removal at the end of the vehicle wrap's service life. No adhesive promoter (primer) needed.

Technical Data

Thickness (without liner and adhesive)	2-mil
Dimensional Stability (FINAT TM-14)	Adhered to steel, no shrinkage in cross direction; In length, <.003"
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: 2.38 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)	10 years (unprinted)
Minimum Application Temperature	> +46°F
Available Lengths Available Widths (in inches)	150' (50-yard), 75' (25-yard) 54, 60
Recommended Laminates	ORAGUARD® Series 279
Print Compatibility	Latex, Solvent, Eco-Solvent, UV Curable



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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 ORAJET® 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 ORAJET® 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 ORAJET® 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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