

Graphic Innovations

Digital Inkjet Media Selection Guide



Engineered to Achieve Perfection™



“

A dedication to quality is a source of pride for all of us at ORAFOL and it is a key factor in our continued growth & success.

”

Dr. Holger Loclair, MD
ORAFOL Europe GmbH



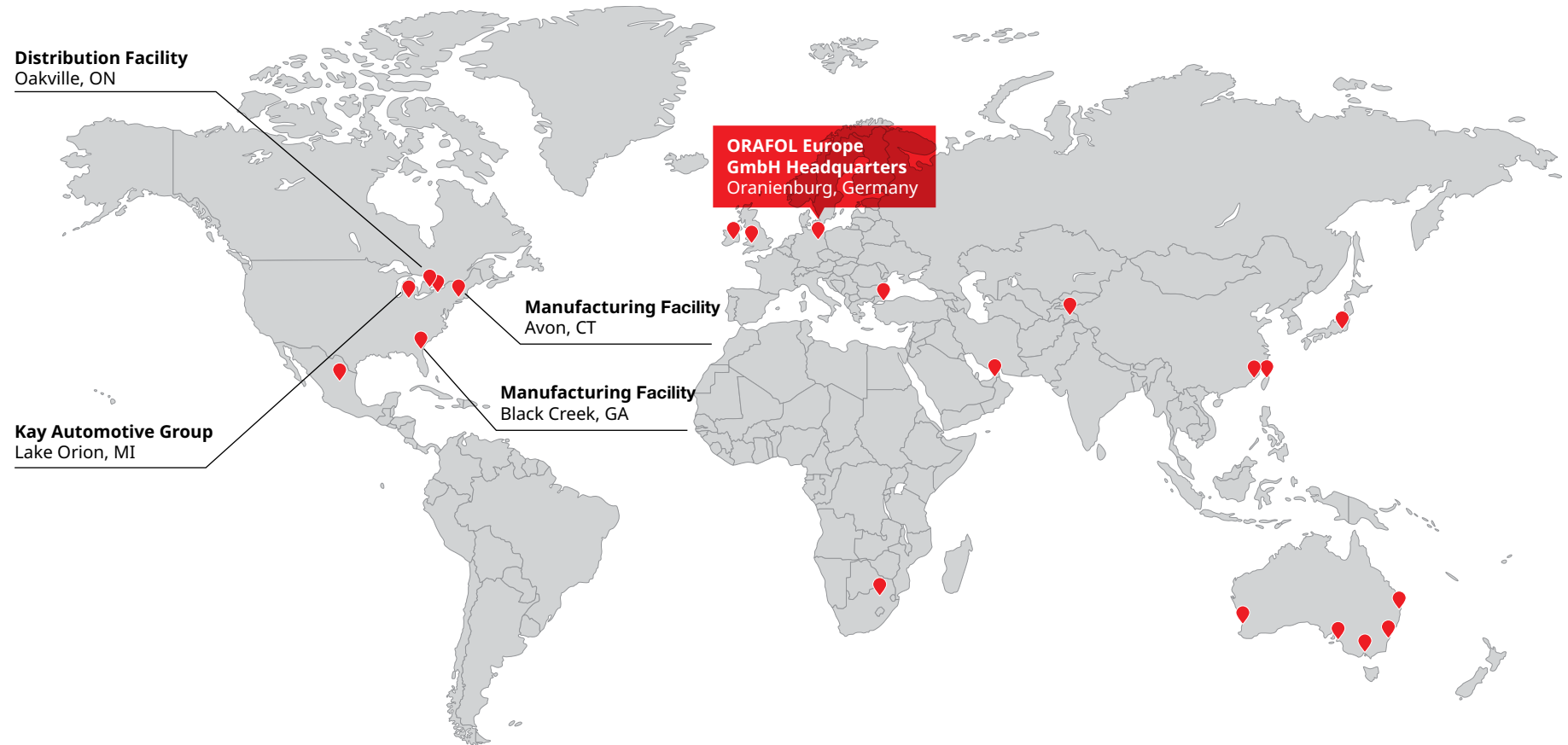
Located just outside of Berlin in the heart of Europe, the ORAFOL Europe GmbH headquarters is the hub of the organization's culture of leadership and excellence.

WORLDWIDE LOCATIONS



We have offices in:

AUSTRALIA · CANADA · CHINA · GERMANY · INDIA · IRELAND · JAPAN · MEXICO · SOUTH AFRICA · TAIWAN · TURKEY · UNITED ARAB EMIRATES · UNITED STATES · WALES



Graphic Innovations
Engineered to Achieve Perfection™

Reflective Solutions
Engineered to Save Lives™

Adhesive Tape Systems
Engineered to Perform Better™

Optic Solutions
Engineered to Manage Light™

Advanced Polymer Films
Engineered to Deliver Variety™

Automotive Graphics










How to use this brochure






The ORAFOL® Digital Inkjet Media Selection Guide outlines our Graphic Innovations division and our wide range of digitally printable vinyl films. Allow the icon system to be your guide as you navigate through each area of application. For complete product information, use the product overview tables on pages 44 – 49.

Adhesive & Film Performance Characteristics

Application Types

-  Vehicle & Fleet Graphics
-  Watercraft Wraps
-  Outdoor Signage
-  Backlit Signage
-  Indoor Signage, Exhibits, and P.O.P. Displays
-  Wall Graphics
-  Window Graphics
-  Specialty Applications
-  Decals

Additional Information

-  Educational Information
-  Helpful Tips & Tricks
-  Need To Know Information

Adhesive Performance Characteristics

Removable Adhesive /// Short-to-medium-term

- Removes cleanly within 2-3 years of application from *most* properly prepared, smooth, sealed surfaces.
- Beyond 3+ years, removal properties may diminish and the adhesive may become more permanent.

Permanent Adhesive /// Medium-to-long-term

- Stronger anchoring power when applied to smooth, properly prepared, sealed surfaces.
- *May not* remove cleanly from the surface

High-tack Permanent Adhesive /// Permanent

- Extremely high-initial-tack and final bond when applied to hard-to-stick low energy plastics and powder coatings.
- *May not* remove cleanly from the surface

Film Properties

/// GOOD ///	/// BETTER ///	/// BEST ///
Calendered PVC Film	Cast PVC Film	Cast Urethane Film
Thicker film type	Thin and flexible	Extremely durable
Flat surfaces only	Long-term applications	Eco-friendly film type
When used incorrectly, material may tunnel, delaminate, or "shrink" from the application surface	Premium film type	Self-healing properties
	Perfect for both flat and heavily contoured, curved, recessed surfaces	Will not yellow or crack

Proprietary Technologies



Specially formulated air-egress technology that facilitates a quicker, easier bubble free application.



New advanced repositionable adhesive technology that enables a quick and easy application.















 Extreme durability that won't yellow or crack!





Image courtesy of Spider Graphics, Monrovia, IN. ORAJET® 3105HT with ORAGUARD® 270 Stoneguard.

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Vehicle and Fleet Graphics



Image courtesy of Wraptilian & Wraps by SF, in collaboration with Lexus, Artist — VYAL, & VIP Auto Salon. ORAJET® 3951RA + ProSlide™ with ORAGUARD® 290.

Vehicles with Complex Curves and Recessed Areas



ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
Premium PVC Wrap Films with Air-Egress Technology					
BETTER /// 3951RA + ProSlide™ Premium Digital Printing Cast PVC Professional Wrapping Film with <i>RapidAir®</i> + <i>ProSlide™</i> Technology with low initial tack	10 years	white <i>now available in transparent</i>	gloss	grey <i>(white)</i> clear <i>(transparent)</i> solvent-based, slideable, permanent, removable with heat	289F PVC-Free Optically Clear PU 290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast
BETTER /// 3951RA Professional Wrapping Film with <i>RapidAir®</i> Technology with standard initial tack		white		grey, solvent-based, repositionable, permanent removable with heat	
Premium PVC Free Polyurathane Wrap Films with Air-Egress Technology					
BEST /// 3981RA + ProSlide™ Premium Digital Printing Polyurethane (PU) Wrapping Film with <i>RapidAir®</i> + <i>ProSlide™</i> Technology with low initial tack	10 years	white	gloss	grey, solvent-based, repositionable, permanent removable with heat	289F PVC-Free Optically Clear PU <i>Think of this digital print media and over-laminate combination as a customizable paint protection film!</i>
ORALITE® Product <i>(Reflective)</i>					
BEST /// 5600RA Fleet Engineering Grade Reflective Film with <i>RapidAir®</i> Technology with low initial tack	7 years	white	gloss	clear, solvent-based, repositionable, permanent, removable with heat	289F PVC-Free Optically Clear PU 290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast



Did you know? Adhesive promoters are not required with **any** ORAFOL® Wrap Films!





WATCH NOW to learn effective *ProSlide™* installation methods!

Extreme durability that won't yellow or crack!



Vehicles with Simple Curves and Partial Wraps



ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive <i>(based on color selection)</i>		Recommended ORAGUARD® Laminate
GOOD /// 3551 High Performance Calendered PVC with CommandForm® Technology with standard initial tack	7 years	arctic white/ transparent	gloss	grey <i>(arctic white)</i>	clear <i>(transparent)</i>	290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast 270 PPF Stone Guard Film
BETTER /// 3551RA High Performance Calendered PVC with RapidAir® Technology with standard initial tack		arctic white		solvent-based, repositionable, permanent, removable with heat		
ORALITE® Product <i>(Reflective)</i>	Durability <i>(unprinted)</i>	Color	Finish	Adhesive		Recommended ORAGUARD® Laminate
GOOD /// 5600 Fleet Engineering Grade Reflective Film*	7 years	white	gloss	clear, solvent-based, permanent, removable with heat		289F PVC-Free Optically Clear PU  290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast
BETTER /// 5650RA Fleet Engineering Grade Reflective Film with RapidAir® Technology with standard initial tack*				clear, solvent-based, repositionable, permanent, removable with heat		
BEST /// 5600RA  Fleet Engineering Grade Reflective Film with RapidAir® Technology with low initial tack*						



WATCH NOW to learn more about **ORALITE® 5600RA!**

*ORALITE® 5600 and 5650RA are thermal print compatible.




ORAFOL® offers a full range of **cleaning and care products**, developed for maintenance of ORAFOL® wrapped vehicles.





Watercraft Wraps

ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive <i>(based on color selection)</i>		Recommended ORAGUARD® Laminate	
GOOD /// 3551 High Performance Calendered PVC with CommandForm® Technology with standard initial tack	7 years	arctic white/ transparent	gloss	grey <i>(arctic white)</i>	clear <i>(transparent)</i>	290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast 270 PPF Stone Guard Film	
GOOD /// 3551RA High Performance Calendered PVC with RapidAir® Technology with standard initial tack		arctic white		solvent-based, repositionable, permanent, removable with heat			
BEST /// 3951 Professional Wrapping Film with CommandForm® Technology with standard initial tack	8 years	transparent		grey <i>(white)</i>	clear <i>(transparent)</i>		289F PVC-Free Optically Clear PU  290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast
BEST /// 3951RA Professional Wrapping Film with RapidAir® Technology with standard initial tack	10 years	white		grey, solvent-based, repositionable, permanent removable with heat			
BEST /// 3951RA+ProSlide™ Premium Digital Printing Cast PVC Professional Wrapping Film with RapidAir® + ProSlide™ Technology with low initial tack		white <i>now available in transparent</i>		grey <i>(white)</i>	clear <i>(transparent)</i>		



Did You Know? ORAGUARD® 289F Stone Guard offers self-healing properties? It won't yellow or crack, delivering extreme protection for your boat wrap!



WATCH NOW to learn more about ORAGUARD® 289F!

Image courtesy of PG Nola, New Orleans, Louisiana.
ORAJET® 3951RA with ORAGUARD® 290.



Build your own
Bundle Kit with
ORAJET® and
ORAGUARD®

Wrap films and over-
laminates that deliver
SPEED + ACCURACY
+ DURABILITY!

! Now offering
25 yard roll
● lengths!

Pair with your preferred
ORAGUARD® over-laminate!

Contact your ORAFOL®
distributor today!

RapidAir +
ProSlide™



*Image courtesy of TechnoWraps, Orlando, Florida. ORAJET® 3951RA + ProSlide™ with ORAGUARD® 290G (above).
Image courtesy of GT3 Creative, Jamestown, RI. ORAJET® 3951RA + ProSlide™ with ORAGUARD® 290M (bottom right).
Image courtesy of PG Nola, New Orleans, Louisiana. ORAJET® 3951RA + ProSlide™ with ORAGUARD® 290G (right).*

/// NEW 25 YARD LENGTHS ///

ORALITE® PRODUCT	ORAJET® PRODUCT	ORAGUARD® PRODUCT
5600	3551DT	270
5600RA	3951HT	289F
5650RA	3951RA + ProSlide™	290
	3981RA + ProSlide™	290F
		293



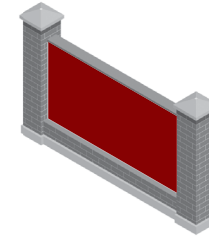
WATCH NOW to
learn more about
ORAJET® ProSlide™!



modular power solutions

*Image courtesy of Visual Dynamics Sign & Image Solutions, Dallas, TX.
ORAJET® 3951 Transparent with ORAGUARD® 290. (Printed text onto a
continuous clear background).*

Long-term Outdoor Signage (7+ Years)

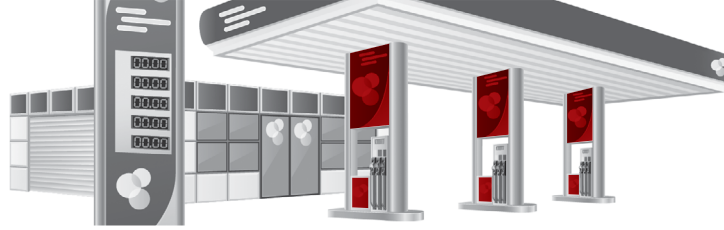



ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive <i>(based on color selection)</i>		Recommended ORAGUARD® Laminate
GOOD /// 3551 High Performance Calendered PVC with CommandForm® Technology with standard initial tack	7 years	arctic white/ transparent	gloss	grey <i>(arctic white)</i>	clear <i>(transparent)</i>	290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast
GOOD /// 3551RA High Performance Calendered PVC with RapidAir® Technology with standard initial tack		arctic white		solvent-based, repositionable, permanent, removable with heat		
BEST /// 3951 Professional Wrapping Film with CommandForm® Technology with standard initial tack	8 years	white/ transparent		grey <i>(white)</i>	clear <i>(transparent)</i>	289F PVC-Free Optically Clear PU 290 PVC Premium Cast 290F Optically Clear PVC Cast 297GF Optically Clear Cast
BEST /// 3951RA Professional Wrapping Film with RapidAir® Technology with standard initial tack	10 years	white		grey, solvent-based, repositionable, permanent removable with heat		
BEST /// 3951RA+ProSlide™ Premium Digital Printing Cast PVC Professional Wrapping Film with RapidAir®+ProSlide™ Technology with low initial tack		white <i>now available in transparent</i>				
BEST /// 3981RA+ProSlide™ Premium Digital Printing Polyurethane (PU) Wrapping Film with RapidAir®+ProSlide™ Technology with low initial tack		white		grey, solvent-based, repositionable, permanent removable with heat		

Extreme durability that won't yellow or crack!

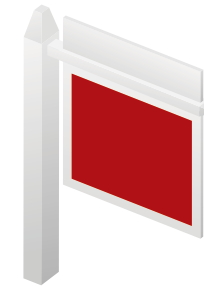
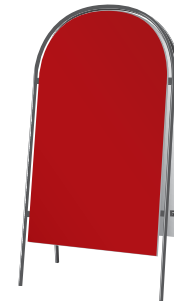



Medium-term Outdoor Signage (5 Years)



ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive <i>(based on color selection)</i>	Recommended ORAGUARD® Laminate	
GOOD /// 3165 Intermediate Calendered PVC	5 years	white	gloss, matte	grey, solvent-based, permanent	215 PVC 215 DU	
GOOD /// 3165RA Intermediate Calendered PVC with <i>RapidAir®</i> Technology			gloss			
BETTER /// 3169RA Intermediate Removable Calendered PVC with <i>RapidAir®</i> Technology			gloss, matte	grey, solvent-based, removable		
BETTER /// 3651  Intermediate Calendered PVC		white/ transparent	gloss, matte, semi-gloss	grey <i>(white)</i>		clear <i>(transparent)</i>
BETTER /// 3651RA Intermediate Calendered PVC with <i>RapidAir®</i> Technology			gloss, matte			
BETTER /// 3691 Intermediate Removable Calendered PVC		white	gloss, matte	grey, solvent-based, removable		
BEST /// 3551 High Performance Calendered PVC with CommandForm® Technology with standard initial tack	7 years	arctic white/ transparent	gloss	grey <i>(arctic white)</i>	clear <i>(transparent)</i>	
BEST /// 3551RA High Performance Calendered PVC with <i>RapidAir®</i> Technology with standard initial tack		arctic white				solvent-based, repositionable, permanent, removable with heat
ORALITE® Product <i>(Reflective)</i>	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate	
GOOD /// 5600 Fleet Engineering Grade Reflective Film*	7 years	white	gloss	clear, solvent-based, permanent, removable with heat	290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast 297GF Optically Clear Cast	
BETTER /// 5650RA Fleet Engineering Grade Reflective Film with <i>RapidAir®</i> Technology with standard initial tack*						

Short-term Outdoor Signage (4 Years or Less)

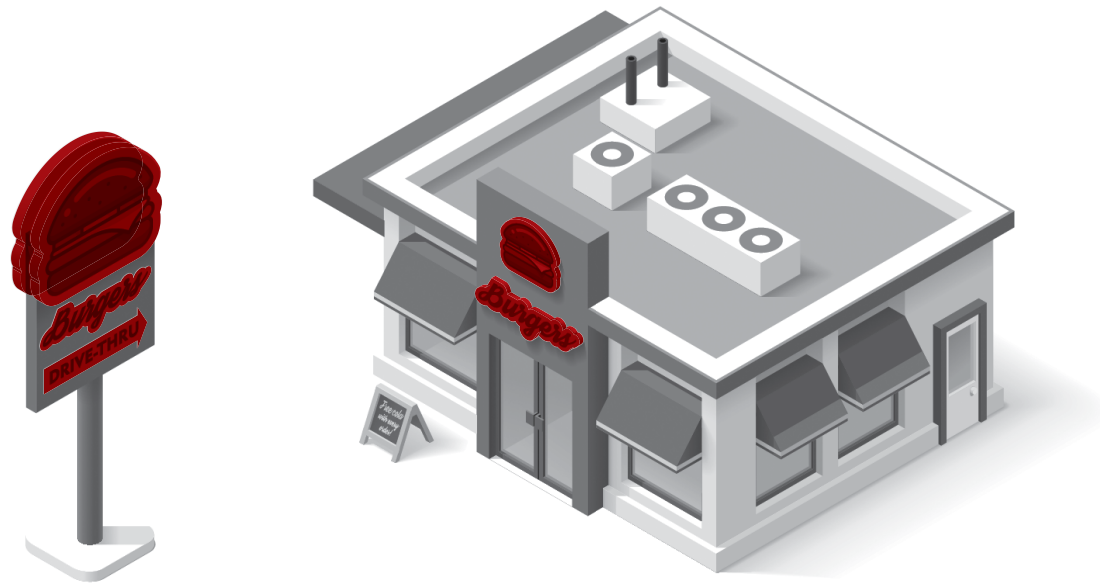


ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
GOOD /// 3258 Semi-Rigid Calendered PVC	4 years	white	gloss, matte	grey, solvent-based, permanent	210 PVC
GOOD /// 3621 Soft Calendered PVC				grey, water-based, removable	
BETTER /// 3640 Soft Calendered PVC		white, transparent		clear, water-based, permanent	
BETTER /// 3641 Soft Calendered PVC		white	grey, water-based, permanent		
BEST /// 3164  Soft Calendered PVC		transparent	gloss	clear, water-based, permanent	
BEST /// 3164RA Soft Calendered PVC with <i>RapidAir®</i> Technology		white	gloss, matte	grey, water-based, permanent	
BEST /// 3164XRA Soft Calendered PVC with <i>RapidAir®</i> Technology					
ORALITE® Product <i>(Reflective)</i>	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
BEST /// 5400 Commercial Grade Reflective	4 years	white	gloss	clear, solvent-based, permanent	215 PVC 215 DU

Backlit Signage



*Image courtesy of Ruggles Sign, Versailles, KY.
ORAJET® 3850 with ORAGUARD® 215SG.*



Long-term Backlit Signage (7+ Years)

ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
BETTER /// 3850 Translucent Calendered	7 years	translucent, white	semi-gloss	clear, solvent-based, permanent	289F PVC-Free Optically Clear PU  290 PVC Premium Cast 290F Optically Clear PVC Cast 297F Optically Clear Cast
BETTER /// 3551 High Performance Calendered PVC with CommandForm® Technology with standard initial tack		transparent	gloss	solvent-based, repositionable, permanent, removable with heat	
BEST /// 3951 Professional Wrapping Film with CommandForm® Technology with standard initial tack	8 years				



Did You Know? ORAFOL® offers a full range of products for backlit signage, including ORACAL® 8870 Blockout Film, and ORACAL® 8860 and 8830 Diffuser Premium Cast films. Ask your ORAFOL representative for more information!

 Extreme durability that won't yellow or crack!

Medium-term Backlit Signage (5 Years)



ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
BEST /// 3551 High Performance Calendered PVC with CommandForm® Technology with standard initial tack	7 years	transparent	gloss	solvent-based, repositionable, permanent, removable with heat	215 PVC 215 DU
BEST /// 3850 Translucent Calendered		translucent	semi-gloss	clear, solvent-based, permanent	

Short-term Backlit Signage (4 Years or Less)

ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
GOOD /// 3620 Transparent PVC	2 years	white, transparent	gloss, matte	clear, water-based, removable	210 PVC
BETTER /// 3640 Soft Calendered PVC	4 years			clear, water-based, permanent	
BETTER /// 3164  Soft Calendered PVC			gloss		
BEST /// 3651  Intermediate Calendered PVC	5 years	transparent	gloss, matte	clear, solvent-based, permanent	



Translucent vs. Transparent Films



Translucent Films like ORAJET® 3850, are designed to be illuminated by an artificial light source such as fluorescent lamps or LEDs, making it the perfect solution for internally illuminated sign projects such as sign cabinets or channel letters. When using a white acrylic or polycarbonate substrate for illuminated signage, instead consider printing on one of our transparent films, such as ORAJET® 3651, 3551, or 3951.

Transparent Films are designed to work with natural light to simulate a “stained glass” effect without obscuring the background. Transparent print films are quickly becoming the norm when applied to white acrylic and polycarbonate sign faces. Applying our transparent solvent-based adhesive films, using a wet application technique, will provide professional looking, crystal clear results.

ORAFOL has you covered when it comes to Transparent and Translucent print films!

Image courtesy of Seaboard Signs and Engraving, Myrtle Beach, SC.
ORAJET® 3651 transparent with ORAGUARD® 215.

STATION 6

Crunchy Bar

- SRIRACHA TEMPURA FLAKES
- FRIED GARLIC CHIPS
- HAWAIIAN SEA SALT
- ROASTED SESAME SEEDS
- FURIKAKE
- FRIED SALMON SKIN +\$1.49
- SAUTE TRUFFLE ONION MUSHROOM +\$1.49
- ONSEN TAMAGO +\$1.75
ORGANIC SOFT BOILED EGG WITH EEL SAUCE AND FURIKAKE

SNAP! CRUNCH!

STATION 7

Choose Your Sauce


- 1 TRUFFLE YUZU PONZU
- 2 GARLIC PONZU
- 3 HONEY WASABI MAYO
- 4 SWEET SESAME SAUCE
- 5 SPICY MAYO
- 6 EEL SAUCE
- 7 YUZU PONZU
- 8 SUPER SPICY PONZU DARE TO TRY?
- 9 ICHI SAUCE
 - EEL SAUCE
 - SWEET SESAME SAUCE
 - CHILI OIL



Image courtesy of Gamut Media, Fullerton, CA.
ORAJET® 3169RA with ORAGUARD® 210.




Long-term Indoor Signage *(Permanent)*



ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
GOOD /// 3640 Soft Calendered PVC	4 years	white, transparent		clear, water-based, permanent	200 Economy PVC 210 PVC 236 PVC-Free 
GOOD /// 3641 Soft Calendered PVC		white	gloss, matte	grey, water-based, permanent	
GOOD /// 3164  Soft Calendered PVC		white			
GOOD /// 3164RA Soft Calendered PVC with <i>RapidAir®</i> Technology		transparent	gloss	clear, water-based, permanent	
GOOD /// 3164XRA Soft Calendered PVC with <i>RapidAir®</i> Technology		white	gloss, matte	grey, water-based, permanent	



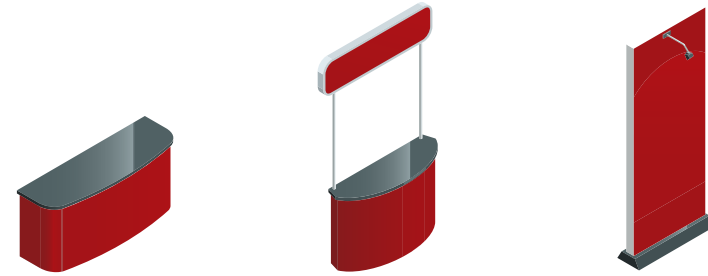
Long-term Indoor Signage *(Permanent)* continued

ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive <i>(based on color selection)</i>		Recommended ORAGUARD® Laminate
GOOD /// 3174  PVC-Free Digital Media	2 years	white	gloss	clear, water-based, permanent		236 PVC-Free 
BETTER /// 3258 Semi-Rigid Calendered PVC	4 years		gloss, matte	grey, solvent-based, permanent		Not necessary
BETTER /// 3165 Intermediate Calendered PVC	5 years		gloss	grey, solvent-based, permanent		210 PVC
BETTER /// 3165RA Intermediate Calendered PVC with <i>RapidAir®</i> Technology		gloss		clear, solvent-based, permanent		293 Ultra Flexible Premium Cast
BETTER /// 3930 Photoluminescent <i>(glow-in-the-dark)</i>		light yellow	white	gloss, matte semi-gloss	grey <i>(white)</i>	clear <i>(transparent)</i>
BEST /// 3651  Intermediate Calendered PVC	white/ transparent	gloss, matte	solvent-based, permanent			
BEST /// 3651RA Intermediate Calendered PVC with <i>RapidAir®</i> Technology	white	gloss	grey, solvent-based, permanent			

 Very stable and won't shrink!

 UL Approved Products

Short-term Indoor Signage *(Removable)*




ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
GOOD /// 3268 Low-Tack Movable Wall Graphics	2 years	white	matte	clear, water-based, removable	Not necessary
GOOD /// 3628 Low-Tack Wall and Window Graphics	3 years				
BETTER /// 3621 Soft Calendered PVC	4 years	white	gloss, matte	grey, water-based, removable	200 Economy PVC 210 PVC 236 PVC-Free 
BETTER /// 3620 Transparent PVC Window Graphics				transparent	
BEST /// 3169RA Intermediate Removable Calendered with <i>RapidAir®</i> Technology		5 years		white	
BEST /// 3691 Intermediate Removable Calendered PVC					



ORAJET® Digital Medias are Latex, Solvent, Eco-solvent, and UV curable* compatible! *ORAJET® 3676 and 3675 are not UV curable compatible.

 Very stable and won't shrink!

Floor Graphics

ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive <i>(based on color selection)</i>	Recommended ORAGUARD® Laminate
Indoor					
GOOD /// 1663 Calendered PVC for Floor Graphics	3 years	white	gloss, matte	clear, solvent-based, removable	250AS Skid-Resistant PVC 255AS Skid-Resistant PVC for High Load Exposure* <small>*Meets the standards of ASTM D 2047 and BAM StVo §35 d3 for Skid and Slip Resistance</small>
GOOD /// 3641 Soft Calendered PVC	4 years			grey, water-based, permanent	
GOOD /// 3621 Soft Calendered PVC				grey, water-based, removable	
BETTER /// 3165 Intermediate Calendered PVC	5 years			grey, solvent-based, permanent	
BETTER /// 3165RA Intermediate Calendered PVC with <i>RapidAir</i> ® Technology			gloss		
BETTER /// 3169RA Intermediate Removable Calendered with <i>RapidAir</i> ® Technology			gloss, matte	grey, solvent-based, removable	
BEST /// 3651  Intermediate Calendered PVC			white	gloss, matte semi-gloss	
	transparent	gloss, matte	solvent-based, permanent		
BEST /// 3651RA Intermediate Calendered PVC with <i>RapidAir</i> ® Technology		white	gloss	grey, solvent-based, permanent	
Indoor/Outdoor					
BEST /// 3105HT High-tack Calendered PVC Digital Media	5 years	white	gloss	grey, solvent-based, permanent /// commercial grade carpet, concrete pavement, and asphalt	250AS Skid-Resistant PVC 255AS Skid-Resistant PVC for High Load Exposure* <small>*Meets the standards of ASTM D 2047 and BAM StVo §35 d3 for Skid and Slip Resistance</small>



Floor graphic durability is based on stated over-laminate durability located on page 26 or by searching ORAGUARD® 250AS or 255AS at www.orafol.com.

Images courtesy of Andretti Autosport, Indianapolis, IN. Exterior Pavement Graphics, ORAJET® 3105HT with ORAGUARD® 255AS. Interior Floor Graphics, ORAJET® 3169RA with ORAGUARD® 250AS.



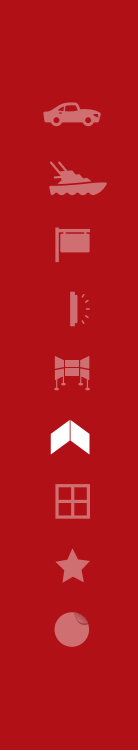
Wall Graphics



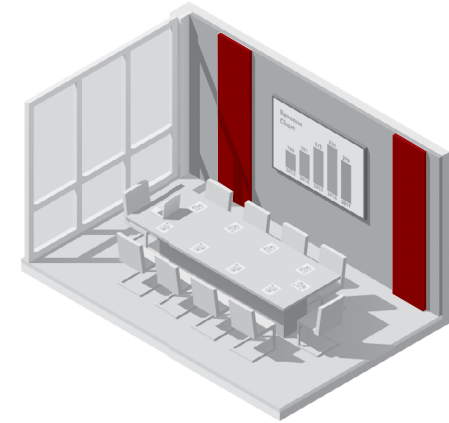
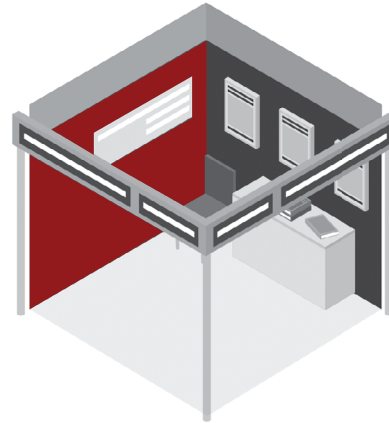
*Image courtesy of Car Wrap City, Sherman, TX.
ORAJET® 3169RA with ORAGUARD® 210M.*

Smooth, Latex Painted Wall Surfaces

ORAJET® Product		Durability <i>(unprinted)</i>	Color	Finish		Adhesive <i>(based on color selection)</i>		Recommended ORAGUARD® Laminate
Removable Wall Graphics								
GOOD /// 3621 Soft Calendered PVC		4 years	white	gloss, matte		grey (3621)	clear (3628, 3268)	200 Economy PVC 210 PVC
GOOD /// 3628 Low-Tack Wall and Window Graphics		3 years		matte				
GOOD /// 3268 Low-Tack Movable Wall Graphics		2 years		water-based, removable		Not necessary		
BETTER /// 3169RA Intermediate Removable Calendered with <i>RapidAir</i> ® Technology		5 years		gloss, matte		grey, solvent-based, removable		210 PVC 215 PVC 215 DU
BEST /// 3691 Intermediate Removable Calendered PVC								
Permanent Wall Graphics								
GOOD /// 3640* Soft Calendered PVC	GOOD /// 3641* Soft Calendered PVC	4 years	white, transparent	gloss, matte	gloss	grey (3641)	clear (3640, 3174)	200 Economy PVC 210 PVC
GOOD /// 3174* PVC-Free Digital Media		2 years	white					water-based, permanent
BETTER /// 3165* Intermediate Calendered PVC	BETTER /// 3165RA* Intermediate Calendered PVC with <i>RapidAir</i> ® Technology	5 years	white (3165, 3165RA, 3651, 3651RA)	gloss, matte (3165, 3651-transparent)	gloss (3165RA, 3651RA)	grey (3165, 3165RA, 3651-white, 3651RA)	clear (3651-transparent)	210 PVC 215 PVC 215 DU
BETTER /// 3651* Intermediate Calendered PVC	BETTER /// 3651RA* Intermediate Calendered PVC with <i>RapidAir</i> ® Technology		transparent (3651)	gloss, matte semi-gloss (3651-white)				
BEST /// 3551* High Performance Calendered PVC with CommandForm® Technology with standard initial tack	BEST /// 3551RA* High Performance Calendered PVC with <i>RapidAir</i> ® Technology with standard initial tack	7 years	arctic white (3551, 3551RA) transparent (3551)	gloss		grey (arctic white)	clear (transparent)	215 PVC 215 DU 290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast



Smooth, Hard-to-Stick Latex Painted Wall Surfaces



ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
High-tack Adhesive Wall Graphic Films					
GOOD /// 3164HT* High-tack Calendered PVC Digital Media	4 years	white	gloss, matte	clear, water-based, high-tack	200 Economy PVC 210 PVC
BETTER /// 3105HT* High-tack Calendered PVC Digital Media	5 years	white	gloss	grey, solvent-based, permanent with high initial tack and final adhesion	215 PVC 215 DU
BEST /// 3954* Brick Stone Film	10 years			grey, solvent polyacrylate, permanent	290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast
BEST /// 3951HT* PVC-Free Digital Media	7 years			grey, solvent-based, permanent with high initial tack and final adhesion	

**May damage wall surface upon removal*



Always inspect wall surfaces and validate material compatibility prior to completing any wall graphic or mural project. **Contact the Product Support Team at 912-851-5000 for more details.**

💡 Wall Graphic Tips: Hard-to-Stick



Paint Formulation Changes

Over the past several years the paint industry has made significant changes to paint formulations in an effort to make less of an impact on our environment. Additionally, paint formulations are now more durable and have additives designed to repel dirt and moisture. Consequently, this shift has made it more challenging to achieve a successful graphic installation to these new paint formulations.

Pay special attention to paint coatings that are listed as having the following attributes; Low-VOC, Zero-VOC, Hard-to-stick, "Stain-blocking", "Washable", or "Scrubbable".

These types of paint coatings may present adhesion challenges between the wall graphic adhesive and the paint coating, and may require the use of an ORAJET® material with solvent-based or high tack adhesive.





WATCH NOW to learn more about Window, Wall, and Floor Applications!

Image courtesy of Gamut Media, Fullerton, CA.
ORAJET® 3169RA with ORAGUARD® 210.



Interior and Exterior Textured Wall Surfaces

ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive		Recommended ORAGUARD® Laminate
Sealed/Painted Textured Wall Surfaces						
GOOD /// 3551RA High Performance Calendered PVC with <i>RapidAir</i> ® Technology with standard initial tack	7 years	arctic white	gloss	grey <i>(arctic white)</i>	clear <i>(transparent)</i>	290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast 289F PVC-Free Optically Clear PU 
GOOD /// 3551 High Performance Calendered PVC with CommandForm® Technology with standard initial tack		artic white/ transparent		solvent-based, repositionable, permanent, removable with heat		
BETTER /// 3951RA Professional Wrapping Film with <i>RapidAir</i> ® Technology with standard initial tack	10 years	white		grey, solvent-based, repositionable, permanent, removable with heat		
BEST /// 3951 Professional Wrapping Film with CommandForm® Technology with standard initial tack	8 years	transparent		clear, solvent-based, repositionable, permanent, removable with heat		
Unsealed and Sealed Textured Wall Surfaces						
BEST /// 3954 Brick Stone Film	10 years	white	gloss	grey, solvent-based, permanent		290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast 289F PVC-Free Optically Clear PU 

Solvent-based vs. Water-based Adhesive



**EAST STROUDSBURG
WARRIORS**

Water-based Adhesive

Products with a water-based adhesive, such as ORAJET® 3640, typically are a low-cost solution for either indoor or short-term outdoor graphic applications. Common applications include promotional decals, signage, or wall graphics.

To avoid adhesive bonding issues with the substrate, do not use wet application methods or in low temperature applications.

Solvent-based Adhesive

Products with a solvent-based adhesive, such as ORAJET® 3551, are designed for more demanding and longer term applications. The components of this adhesive are combined using solvents, allowing a structurally stronger adhesive that is more resistant to chemicals, cleaning agents and wider temperature ranges.

Another important attribute is the ability to wet apply graphics without worry of adhesive bonding issues.











**WATCH NOW to
learn more about
ORAJET® 3954!**

Image courtesy of SevenPiece, NYC, NY.
ORAJET® 3951 with ORAGUARD® 290.



Image courtesy of MotoGFX, Beaverton, OR.
ORAJET® 3676 with ORAGUARD® 297.

Architectural Window Graphics

ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive <i>(based on color selection)</i>	Recommended ORAGUARD® Laminate	
Removable Window Graphics						
GOOD /// 3620 Transparent PVC Window Graphics	4 years	white	gloss, matte	clear, water-based, removable		200 Economy PVC 210 PVC 236 PVC-Free 
		transparent		grey, water-based, removable		
GOOD /// 3621 Soft Calendered PVC	5 years	white		grey, solvent-based, removable		210 PVC 215 PVC 215 DU
BETTER /// 3169RA Intermediate Removable Calendered with <i>RapidAir®</i> Technology						
BEST /// 3691 Intermediate Removable Calendered PVC						
Permanent Window Graphics						
GOOD /// 3164  Soft Calendered PVC	4 years	white	gloss, matte	clear, water-based, permanent		200 Economy PVC 210 PVC 236 PVC-Free 
		transparent				
GOOD /// 3174  PVC-Free Digital Media	2 years	white	gloss			236 PVC-Free 
BEST /// 3676 Perforated Window Graphics PVC (60/40)*	4 years	white <i>(reverse is black)</i>		clear, solvent-based, permanent		290F Optically Clear PVC Cast 297GF Optically Clear Cast
BETTER /// 3651  Intermediate Calendered PVC	5 years	white	gloss, matte semi-gloss	grey <i>(white)</i>	clear <i>(transparent)</i>	210 PVC 215 PVC 215 DU
		transparent	gloss, matte	solvent-based, permanent		
BETTER /// 3551 High Performance Calendered PVC with CommandForm® Technology with standard initial tack	7 years	arctic white	gloss	grey <i>(arctic white)</i>	clear <i>(transparent)</i>	215 PVC 215 DU
		transparent		solvent-based, repositionable, permanent, removable with heat		
BEST /// 3952F  Optically Clear Digital Printing Film				clear, solvent-based, semi-permanent <i>(removable with heat or steam)</i>		252F 
BEST /// 3951 Professional Wrapping Film with CommandForm® Technology with standard initial tack	10 years	white		grey <i>(white)</i>	clear <i>(transparent)</i>	290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast
	8 years	transparent	solvent-based, repositionable, permanent, removable with heat			





Vehicle Perforated Window Graphics

ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
3675 Perforated Window Graphics PVC (50/50)*	4 years	white <i>(reverse is black)</i>	gloss	clear, solvent-based, permanent	290F Optically Clear PVC Cast 297GF Optically Clear Cast
3676 Perforated Window Graphics PVC (60/40)*					



Bus and subway train windows utilize ORAJET® 3676. Commuter and fleet windows utilize ORAJET® 3675.



The Magic of Window Perf



ORAJET® 3675 (50/50) and ORAJET® 3676 (60/40) are two of the longest lasting perforated window films on the market, when laminated with ORAGUARD® 297GF Optically Clear over-laminate.

ORAGUARD® 297GF is a thicker over-laminate, 2.75-mil, specifically designed for window perf applications. Series 297GF is less prone to collapsing into the perforated holes, which decreases the chance of material punctures or the collection of dirt and moisture. That means better visibility for you!

Perforated window graphics are perfect for businesses that require more branded store front communication, but are limited by signage ordinances. Window graphics are typically not included in local signage ordinances.



ORAJET® 3675 has
50% printable area.
ORAJET® 3676 has a
60% printable area.

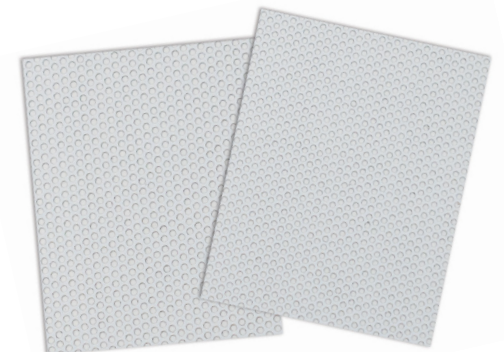


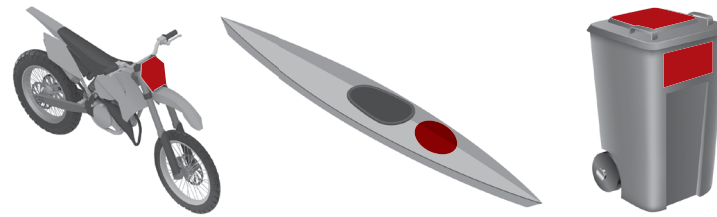
Image courtesy of Megan Kranzler.
ORAJET® 3676 with ORAGUARD® 297GF.

Specialty Applications



*Image courtesy of Tri-City Kustomz, Saginaw, MI.
ORAJET® 3951HT with ORAGUARD® 290.*

Low Energy Plastics



ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
GOOD /// 3164HT High-tack Calendered PVC	4 years	white	gloss, matte	clear, water-based, permanent with high initial tack and final adhesion	210 PVC
		transparent	gloss		
BETTER /// 3105HT High-tack Calendered PVC	5 years	white	gloss	grey, solvent-based, permanent with high initial tack and final adhesion	215 PVC 215 DU 270 Stone Guard Films 290 PVC Premium Cast 290F Optically Clear PVC Cast
BEST /// 3951HT High-tack Cast PVC	7 years				290 PVC Premium Cast 290F Optically Clear PVC Cast 289F PVC-Free Optically Clear PU

Low Temperature Applications *(For application temperatures between 50°F/10°C and 23°F/-5°C)*

ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
GOOD /// 3161DT Low Temperature Soft Calendered PVC	4 years	white	gloss	clear, solvent-based, permanent	200 Economy PVC 210 PVC 215 PVC 215 DU
BETTER /// 3551DT Low Temperature Ultra-Calendered PVC	7 years	arctic white			215 PVC 215 DU 290 PVC premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast





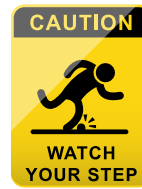
Decals



ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
GOOD /// 3258 Semi-Rigid Calendered PVC	4 years	white	gloss, matte	grey, solvent-based, permanent	Not necessary
BETTER /// 3164 Soft Calendered PVC		white/ transparent	gloss, matte/ gloss	clear, water-based, permanent	210 PVC <i>(optional)</i> 215 PVC <i>(optional)</i> 215 DU <i>(optional)</i>
BEST /// 3164HT High-tack Calendered PVC				clear, water-based, permanent with high initial tack and final adhesion	
ORALITE® Product <i>(Reflective)</i>	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
BEST /// 5400 Commercial Grade	4 years	white, yellow, orange, red, green, blue	gloss	clear, solvent-based, permanent,	215 PVC <i>(optional)</i> 215 DU <i>(optional)</i>

Image courtesy of SafetyDecals.com,
Ludington, MI. ORAJET® 3258.

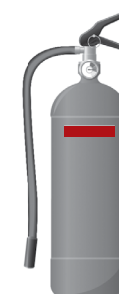
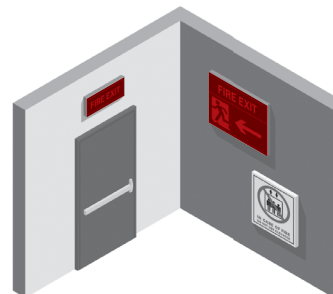
Industrial Labels



ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
GOOD /// 3164HT High-tack Calendered PVC	4 years	white	gloss, matte	clear, water-based, permanent with high initial tack and final adhesion	215 PVC
		transparent	gloss		
GOOD /// 3930 Photoluminescent <i>(glow-in-the-dark)</i>	5 years	light yellow	gloss	clear, solvent-based, permanent	293 Ultra Flexible Premium Cast
BETTER /// 3651RA Intermediate Calendered PVC with <i>RapidAir®</i> Technology		white		grey, solvent-based, permanent	215 PVC 215 DU
BETTER /// 3651 Intermediate Calendered PVC		gloss,matte semi-gloss	grey, solvent-based, permanent		
BETTER /// 3105HT High-tack Calendered PVC		transparent	gloss, matte	clear, solvent-based, permanent	
BETTER /// 3164 Soft Calendered PVC		4 years	white	gloss, matte	clear, water-based, permanent
BEST /// 3164RA Soft Calendered PVC with <i>RapidAir®</i> Technology	transparent		gloss	clear, water-based, permanent	
BEST /// 3164XRA Soft Calendered PVC with <i>RapidAir®</i> Technology	white		gloss, matte	grey, water-based, permanent	
ORACAL® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
BEST /// 820 Safety Vinyl <i>(Anti-Tamper Vinyl)</i>	5 years	white	gloss, matte	solvent-based, permanent	Not necessary



Photoluminescent *(Glow-in-the-Dark)*



ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
BEST /// 3930 Photoluminescent	5 years	light yellow	gloss	clear, solvent-based, permanent	293 Ultra Flexible Premium Cast

Tamper-Evident Applications

ORACAL® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate
BEST /// 820 Safety Vinyl <i>(Anti-Temper Vinyl)</i>	5 years	white	gloss, matte	solvent polyacrylate, permanent	Not necessary

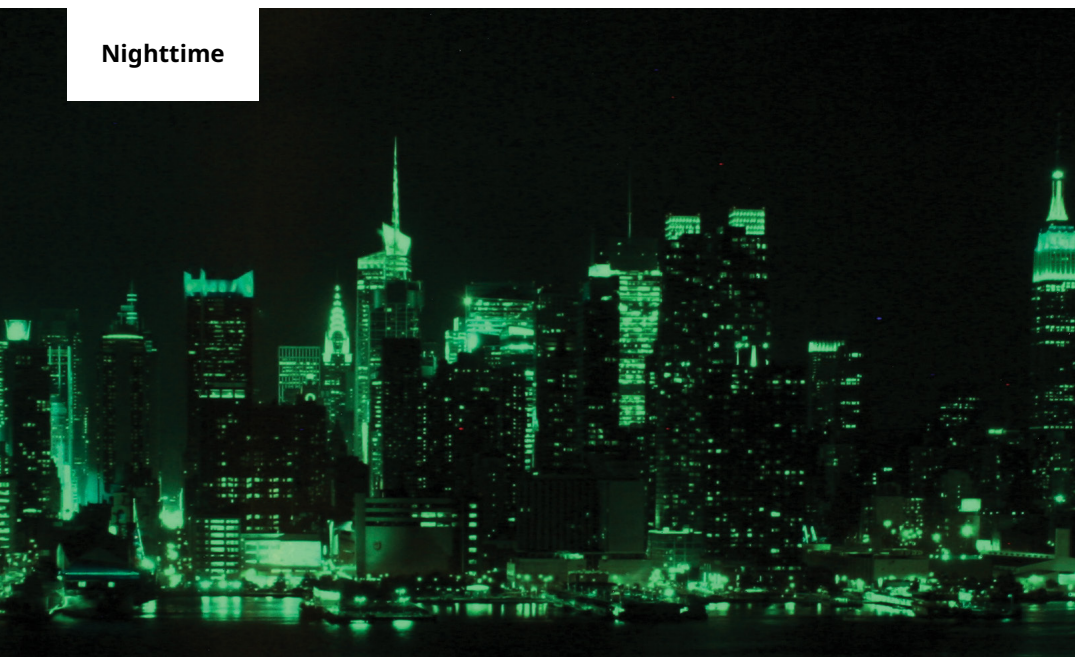


WATCH NOW to
learn more about
ORAJET® 3930!



ORACAL® 820 is designed to be very difficult to remove which makes it **perfect** for tamper evident parking decals and regulated industrial and safety labels.

Printable Glow-in-the-Dark Film



ORAJET® 3930 Photoluminescent, or glow-in-the-dark, film can be used for many different applications including:

- Indoor safety and regulatory signage in hospitals, office buildings, schools, movie theaters, railroad engines, etc.
- Creative graphic applications in bowling alleys, arcades, and laser tag venues.





















So, how does it work?

The material needs to be charged by a light source for approximately 30-60 minutes. The material will appear to glow brightest in pitch black room conditions. Glow time varies depending on the amount of charge received from a light source.



The material will glow for approximately 6-8 hours before needing to be recharged by a light source. The amount of glow will typically dim and extinguish during this 6-8 hour period.

Special Consideration:

Only the non-printed or lightly printed areas of the ORAJET® 3930 Photoluminescent film will glow. This material can be Solvent, Eco-Solvent, Latex, and UV Printed. Match this material with ORAGUARD® 293 for added graphic protection.

ORAJET® Product	Durability <i>(unprinted)</i>	Thickness	Standard Widths	Standard Lengths	Color	Finish	Adhesive	Release Liner	Application
RapidAir® + ProSlide™ — Low Initial-Tack with Air-Egress Technology									
3981RA + ProSlide™ Premium Digital Printing Polyurethane (PU) Wrapping Film with RapidAir® + ProSlide™ Technology with low initial tack	10 years	2-mil	54", 60"	150' (50-yard) 75' (25-yard)	white	gloss	grey, solvent-based, repositionable, permanent removable with heat	88# PE-coated silicone paper featuring RapidAir® + ProSlide™ technology to facilitate quicker, easier application	
3951RA + ProSlide™ Premium Digital Printing Cast PVC Professional Wrapping Film with apidAir® + ProSlide™ Technology with low initial tack			30", 50", 54"* 60" *10-yard only	150' (50-yard) 30' (10-yard) 75' (25-yard)	white <i>now available in transparent</i>		grey (white) clear (transparent) solvent-based, slideable, permanent, removable with heat		 
RapidAir® — Standard Initial-Tack with Air-Egress Technology									
3951RA Professional Wrapping Film with RapidAir® Technology with standard initial tack	10 years	2-mil	30", 50", 54", 60"	150' (50-yard) 30' (10-yard)* *54" only	white	gloss	grey, solvent-based, repositionable, permanent removable with heat	88# PE-coated silicone paper featuring RapidAir® technology to facilitate quicker, easier application	  
Non-Air-Egress									
3951 Professional Wrapping Film with CommandForm® Technology with standard initial tack	10 years	2-mil	15" (punched), 30", 36", 50", 54", 60"	150' (50-yard) 30' (10-yard)* *54" only	white	gloss	grey (10 years) clear (8 years) solvent-based, slideable, permanent, removable with heat	88# PE-coated silicone paper	 
	8 years						 		
3951HT High-tack Calendered PVC	7 years		30"* 54" *25-yard only	150' (50-yard) 75' (25-yard)			grey, solvent-based, permanent with high initial tack and final adhesion		 
3954 Brick Stone Film	10 year		54"	150' (50-yard) 30' (10-yard)			grey, solvent polyacrylate, permanent		
3930 Photoluminescent	5 years		6-mil	25M (27.3-yard) 10M (10.9-yard)			light yellow		clear, solvent-based, permanent
3952F NEW Optically Clear Digital Print Film	7 years	2-mil	54", 60"	150' (50-yard) 75' (25-yard)	transparent	optically clear, solvent-based, semi-permanent	2.95 mil silicone coated polyester film		
ORALITE® Product (Reflective)									
5650RA Fleet Engineering Grade Reflective Film with RapidAir® Technology with standard initial tack*	7 years	5-mil (average)	15" (punched)*, 24", 30", 48", 54", 60" *50-yard and 10-yard only	150' (50-yard) 30' (10-yard) 75' (25-yard)	white	gloss	clear, solvent-based, permanent, removable with heat	88# PE-coated silicone paper featuring RapidAir® technology to facilitate quicker, easier application	 
5600RA NEW Fleet Engineering Grade Reflective Film with RapidAir® Technology with low initial tack*		6-mil (average)	24", 48", 54"				clear, solvent-based, repositionable, permanent, removable with heat		
5600 Fleet Engineering Grade Reflective Film*		5-mil (average)	15" (punched)*, 24", 30", 48", 54", 60" *50-yard and 10-yard only				clear, solvent-based, permanent, removable with heat		 
5400 Commercial Grade	4 years	3.5-mil	15" (punched), 24", 30", 48"	150' (50-yard)			clear, solvent-based, permanent	88# PE-coated	 

ORAJET® Product	Durability <i>(unprinted)</i>	Thickness	Standard Widths	Standard Lengths	Color	Finish	Adhesive	Release Liner	Application
3850 Translucent Calendered	7 years	3-mil	30", 50", 54", 60"	150' (50-yard) 30' (10-yard)* <i>*54" only</i>	white	semi-gloss	clear, solvent-based, permanent	88# PE-coated silicone paper	
3691 Intermediate Removable Calendered PVC	5 years	2.75-mil	54", 60"	150' (50-yard)		gloss, matte	grey, solvent-based, permanent		
3676 Perforated Window Graphics PVC (60/40)	4 years	5.5-mil	24", 30", 54", 60"	150' (50-yard) 30' (10-yard)	white <i>(reverse is black)</i>	gloss	clear, solvent-based, permanent		
3675 Perforated Window Graphics PVC (50/50)									
3651RA Intermediate Calendered PVC with <i>RapidAir®</i> Technology	5 years	2.75-mil	50", 54", 60"	150' (50-yard)	white	gloss, matte, semi-gloss* <i>*(30", 36", 54", 60" only)</i>	grey, solvent-based, permanent		
3651 Intermediate Calendered PVC			15", 30", 36", 50", 54", 60"						
3551RA High Performance Calendered PVC with <i>RapidAir®</i> Technology with standard initial tack			30", 36", 50", 54", 60"		arctic white	grey, solvent-based, repositionable, permanent			
3551 High Performance Calendered PVC with <i>CommandForm®</i> Technology with standard initial tack	7 years	2.75-mil	30", 36", 54", 60"	150' (50-yard)	transparent	gloss	grey <i>(arctic white)</i> clear <i>(transparent)</i> solvent-based, repositionable, permanent, removable with heat		
3551DT Low Temperature Ultra-Calendered PVC			30", 54", 60"				arctic white		clear, solvent-based, permanent
			54"	75' (25-yard)	arctic white		clear, solvent-based, permanent		

ORAJET® Product	Durability <i>(unprinted)</i>	Thickness	Standard Widths	Standard Lengths
3641 Soft Calendered PVC	4 years	3-mil	30", 50", 54", 60"	150' (50-yard)
3640 Soft Calendered PVC			30", 50", 54", 60", 80"	
3628 Low-Tack Wall and Window Graphics	3 years		30", 54", 60"	
3621 Soft Calendered PVC	4 years		30", 36", 50", 54", 60", 80"	
3620 Transparent PVC Window Graphics			30", 50", 54", 60", 80"	
3258 Semi-Rigid Calendered PVC	2 years		6-mil	
3268 Low-Tack Movable Wall Graphics		4-mil	54"	150' (50-yard)
3174  PVC-Free Digital Media			54", 60"	
3169RA Intermediate Removable Calendered with <i>RapidAir®</i> Technology	5 years	4-mil	30", 54", 60"	
3165RA Intermediate Calendered PVC with <i>RapidAir®</i> Technology			30", 50", 54", 60", 80"	
3165 Intermediate Calendered PVC				
3164HT High-tack Soft Calendered PVC	4 years		4-mil	
3164XRA Soft Calendered PVC with <i>RapidAir®</i> Technology				30", 50", 54", 60", 80"
3164RA Soft Calendered PVC with <i>RapidAir®</i> Technology				
3164  Soft Calendered PVC		54"		75' (25-yard)
3161DT Low Temperature Soft Calendered PVC	5 years	4.25-mil	30", 54", 60"	150' (50-yard)* 30' (10-yard) <i>*(60" only)</i>
3105HT High-tack Calendered PVC			30", 36", 50", 54", 60"	150' (50-yard)
1663 Calendered PVC for Floor Graphics	3 years	4.25-mil	30", 36", 50", 54", 60"	150' (50-yard)
ORACAL® Product	Durability <i>(unprinted)</i>	Thickness	Standard Widths	Standard Lengths
820 Safety Vinyl (<i>Anti-Tamper Vinyl</i>)	5 years	2-mil	40", 55" <i>sheet sizes available by special order</i>	165' (55-yard)

Color	Finish	Adhesive	Release Liner	Application	
white	gloss, matte	grey, solvent-based, permanent	83# PE-coated silicone paper		
white, transparent		clear, water-based, permanent			
white	matte	clear, water-based, removable			
		grey, water-based, removable			
transparent	gloss, matte	clear, water-based, removable			
white		matte		grey, solvent-based, permanent	90# silicone-coated paper
	clear, water-based, removable			83# PE-coated silicone paper	
	gloss	clear, water-based, permanent			
	gloss, matte	grey, solvent-based, removable		88# PE-coated silicone paper	
	gloss	grey, solvent-based, permanent			
	white, transparent		gloss, matte	clear, water-based, permanent with high initial tack and final adhesion	83# PE-coated silicone paper
white	gloss, matte	grey, water-based, permanent		89# PE-coated silicone paper	
		clear, water-based, permanent	83# PE-coated silicone paper		
transparent* <i>*(54" only)</i>	gloss	clear, solvent-based, permanent			
white	gloss	grey, solvent-based, permanent with high initial tack and final adhesion		88# PE-coated silicone paper	
		gloss, matte* <i>*(30", 50", 54", 60")</i>	clear, solvent-based, removable	83# PE-coated silicone paper	
Color	Finish	Adhesive	Release Liner	Application	
white	gloss, matte	solvent polyacrylate, permanent	88# PE-coated release paper on both sides		



Use the nominal width and length chart below to order the correct roll size for your printer.




/// WIDTH CHART ///

Width Description	Standard Metric Width	Actual US Converted Width
15"	378 mm	14.882"
24"	610 mm	24.016"
30"	756 mm	29.767"
36"	914 mm	35.980"
40"	1016 mm	40.000"
48"	1260 mm	49.607"
50"	1270 mm	50.000"
54"	1370 mm	53.937"
60"	1520 mm	59.843"
80"	2000 mm	78.740"

/// LENGTH CHART ///

Length Description	Standard Metric Length	Actual US Converted Length
10 yard	9.14 meters	30 feet
25 yard	23 meters	75 feet
50 yard	46 meters	150 feet

Product Overview: Laminating Films

ORAGUARD® Product	Base Material	Durability <i>(vertical exposure)</i>	UV Protection Extension Factor	Forward/Reverse Wound <i>(FW/RW)</i>	Thickness		
Cast							
297GF Optically Clear Premium Cast PVC	PVC	8 years	4+ years	FW	2.75-mil		
293 Ultra Flexible Cast PVC				RW	1-mil		
290F Optically Clear Premium Cast PVC				FW	2-mil		
290 Premium Cast				RW			
289F  PVC-Free Optically Clear PU	polyurethane	10 years	5+ years	RW			
252F  Enhanced Optically Clear Premium Cast PVC	PVC	8 years	4+ years	RW			
Paint Protection Film							
270 Economical PPF Stone Guard Film	PVC	5 years	N/A	FW	6-mil		
Calendered							
236  PVC-Free	polypropylene	2 years	1+ years	FW	2.5-mil		
215DU* UV Print Laminating Film	PVC	5 years	3+ years	RW	3-mil		
215 PVC Laminating Film				RW			
210 PVC Laminating Film				4 years	2+ years	RW	2.5-mil
200 Economy PVC				2 years	1+ years	RW	
Textured, Anti-Skid Floor Graphic Laminate							
255AS Skid-Resistant PVC for High Load Exposure	PVC	6 months	N/A	FW	6.5-mil		
250AS Skid-Resistant PVC		3 months		FW	4.75-mil		

 Very stable and won't shrink! (ORAGUARD® 236)

 Extreme durability that won't yellow or crack! (ORAGUARD® 289F and 280)

**Specially designed for lamination over textured UV curable inks, offering protection for direct to substrate prints!*

Standard Widths	Standard Lengths	Color	Finish	Adhesive	Release Liner	Application
24", 30", 54"	150' (50-yard) 75' (25-yard) 30' (10-yard)	transparent	gloss	clear, solvent-based, permanent	1.4-mil silicone coated polyester film	
24", 30", 36", 50", 54", 60"					55# coated silicone paper	
					1.6-mil silicone coated polyester film	
30", 54", 60"					150' (50-yard)* 75' (25-yard) 30' (10-yard) <i>*matte finish only</i>	matte
54", 60"	150' (50-yard) 75' (25-yard)	gloss	gloss	2.95-mil silicone coated polyester film		
24", 30", 50", 60"	75' (25-yard) 30' (10-yard)	transparent	gloss	clear, solvent-based, permanent	84# kraft paper, siliconized on one side	
54"	150' (50-yard)	transparent	gloss, matte	clear, water-based, permanent	55# coated silicone paper	
54", 60"						
30", 36", 50", 54", 60"			gloss, semi-gloss, matte	clear, solvent-based, permanent		
36", 50", 54"	150' (50-yard)	transparent	raised, skid-resistant, textured surface	clear, solvent-based, permanent	55# coated silicone paper	

Splice Free Guarantee

ORAFOL's digital printing materials are manufactured in the industry's most advanced computer-controlled facilities, assuring you of consistent, splice-free quality from roll-to-roll.

Storage and Handling

The self-adhesive products, ORACAL®, ORAJET®, ORAGUARD®, ORABOND™, ORALITE®, and ORALUX® are supplied in rolls and should, at all times, be stored suspended or standing on end with provided roll blocks. **NEVER** store material lying on its side. Materials should be kept in a cool dry place. For optimal product performance, relative air humidity should be between 50% and 60% and temperature between 64°F and 72°F. Avoid storing material in direct sunlight, or near excessive heat (*i.e. radiators*). Please observe the shelf life instructions contained in the technical data sheet available for each film at www.orafol.com.

Instructions for Printing

Digitally printed materials should be handled with the utmost care. To prevent surface damage use lint-free gloves. Before printing, check the surface quality of the film to remove obvious film damage, dirt, grime, lint, etc. For best results, use the correct ICC profile based on your specific combination of media, ink, printer and RIP software. For **FREE** color profiles, visit the Support section of the ORAFOL Americas website.

Don't forget to match the digital media with the recommended laminate.

Lamination

Lamination of inkjet prints is recommended to ensure longer lifespan at optimum quality (gloss, color, resistance to physical damage). ORAGUARD® laminate films enhance the desired appearance of the graphic (gloss, matte, semi-gloss). They also provide excellent protection against fading from exposure to UV rays. To avoid delamination, edge curling, and adhesive failure, allow solvent printed graphics to outgas for at least 24 hours at 70°F (48-72 hours), before trimming or applying a laminate.

ORALIFE™ Component System Warranty

Up to 8 Years of Protection for your Printed Graphics The ORALIFE™ Component System (OCS) warranty from ORAFOL Americas includes specially matched media and laminates to fit almost any graphic application where a pressure-sensitive adhesive is needed. Combined with your approved wide-format inkjet printer and corresponding OEM ink sets, the OCS warranty can help you achieve an unrivaled level of performance and guaranteed reliability for your outdoor digital prints. For more information and enrollment forms, visit our website at www.orafol.com.

Product Technical Support

Our product experts are ready to help you.

Call our knowledgeable Technical Support team for advice about product choice, color management, application techniques, care and maintenance and much, much more. For exceptional technical expertise call 888-672-2251.

Compatibility and Expected Durability Guide

OCS Warranty <i>(based on vertical exposure)</i>	OCS 8™ <i>8 year durability</i>		OCS 7™ <i>7 year durability</i>		OCS 6™ <i>6 year durability</i>						OCS 5™ <i>5 year durability</i>						OCS 4™ <i>4 year durability</i>						OCS 3™ <i>3 year durability</i>																			
	3981RA	3981RA+ ProSlide™	3951	3951RA	3951RA+ ProSlide™	3952F	3850	3551	3551RA	3551DT	5600RA	5650RA	5600	3954	3850	3691	3651	3651RA	3551	3551RA	3551DT	3169RA	3165RA	3165	3164	3164RA	3164XRA	3164HT	3161DT	5400	3951RA	3951	3751RA	3676	3675	3621	3620	3551RA				
Recommended Applications																																										
Fleet/Vehicle Graphics <i>(complex & moderate curves)</i>	•	•	•	•	•																																					
Fleet/Vehicle Graphics <i>(simple curves)</i>	•	•	•	•	•			•	•	•	•	•	•																													
Short-term promotional																																										
Indoor Signage, P.O.P., Smooth Walls and Exhibit																•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Outdoor Signage	•	•	•	•	•			•	•	•	•	•	•																													
Backlit Signage			•				•	•							•		•		•																							
Window Graphics						•																																				
Boat/Water Craft																																								•		
Textured Wall Graphics														•																												
Recommended ORAGUARD® Laminate																																										
210																																										
215/215DU																																										
290/290F			•	•	•		•	•	•	•	•	•	•																													
293			•	•	•		•	•	•	•	•	•	•																													
297GF																																										
252F						•																																				
289F	•	•	•	•	•		•				•	•	•																													

Expected Durability is based on Vertical Exposure located in Climate Zone 1.
Climate Zones information can be found in the ORAFOL® General Warranty at www.orafol.com.



Engineered to Achieve Perfection™

Digital Inkjet Media Selection Guide

Front and back cover photos courtesy of Great Lakes Film & Graphics, Menomonee Falls, WI. ORAJET® 3651RA with ORAGUARD® 290M.
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