

Digital Inkjet Media Selection Guide



“

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





Worldwide Locations



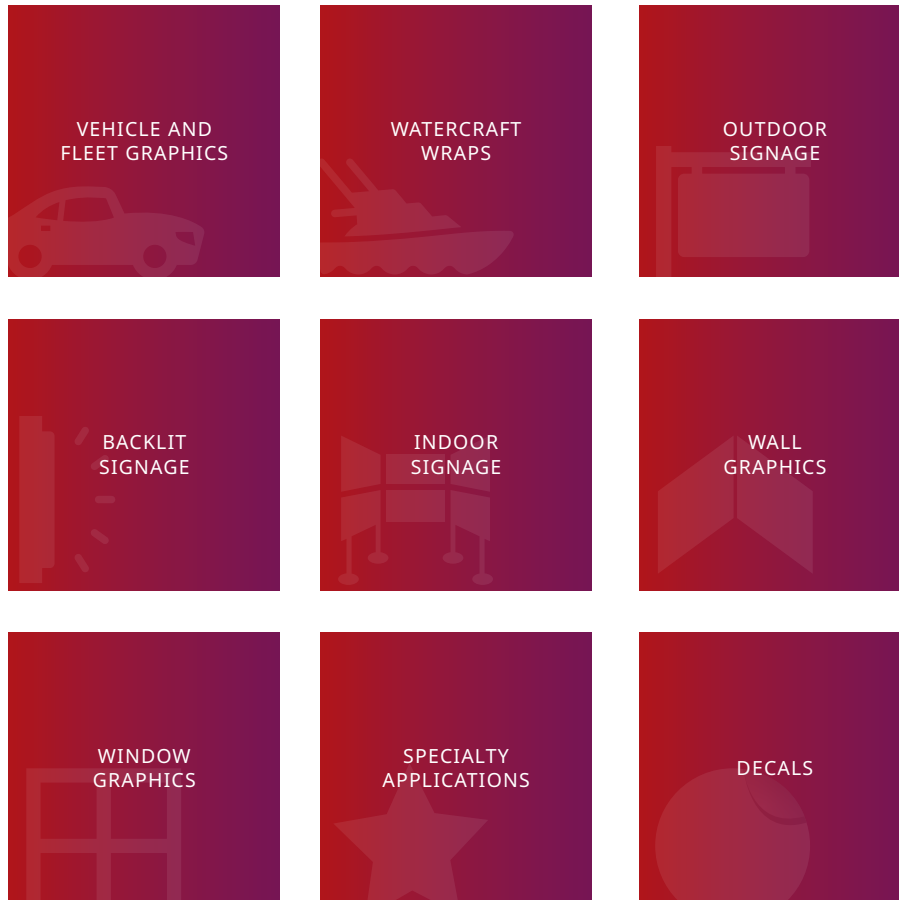
*Located just outside of Berlin in the heart of Europe,
the ORAFOL Europe GmbH headquarters is the hub of
the organization's culture of leadership and excellence.*



*Image courtesy of SignCraft, Indianapolis, IN.
ORAJET® 3954 with ORAGUARD® 290.*

Application Types

Digital Inkjet Media Selection Guide



The ORAFOL® Digital Inkjet Media Selection Guide outlines the Graphic Solutions division and ORAFOL's wide range of digitally printable vinyl films. Allow the icon system to be your guide as you navigate through each application type.

For complete product information, reference the product overview section of the guide on pages 45–52.

Additional Information



Educational Information



Helpful Tips & Tricks



Need To Know Information

Proprietary Technologies


RapidAir[®] AIR RELEASE SYSTEM


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

ProSlide[®]

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

 Very stable and won't shrink!

 Extreme Performance that won't yellow or crack!

 **UL** Approved Products: UL certified for UL 969 "Marketing and Labeling Systems" (USA) and CSA c22.2 NO. 0.15 "Adhesive Labels" (Canada)

ORAJET[®] 3971RA + ProSlide[®] with ORAGUARD[®] 279G.



Adhesive & Film Performance Characteristics

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



ORAJET® Digital Medias are compatible with today’s Latex, Solvent, Eco-Solvent, and UV Curable inks. Exceptions are noted with an * throughout the guide.

Film Properties
















Calendered PVC Film	Cast PVC Film	 (PU) Polyurethane 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
		Best horizontal durability (<i>hoods, roofs, trucks</i>)
		Most resistant to environmental contamination (<i>fallout</i>)
		CLICK + LEARN 



*Image courtesy of Artworks Commercial Graphics, Irving, TX.
ORAJET® 3951RA + ProSlide® Transparent with ORAGUARD® 279SG.*



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ORAJET®

3971
RA+PS



made by ORAFOL

THE INDUSTRY'S FIRST

Printable, Cast Polyurethane
Paint Protection Wrap Film!

Featuring *RapidAir*® + *ProSlide*®



Highly Durable Polyurethane Construction | Won't Yellow or Crack | Self-Healing | Eco-Friendly | Better Abrasion Resistance than PVC



ORAJET® 3971 RA+PS

Premium Digital Printing
(Cast) Polyurethane (PU) Media


with RapidAir® + ProSlide® Technology

ORAGUARD® 279

Premium PVC-Free (Cast)
Polyurethane PU Over-Laminate





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Vehicle and Fleet Graphics










Vehicles with Complex Curves and Recessed Areas



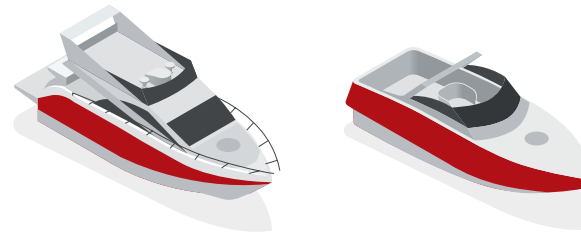
ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive		Recommended ORAGUARD® Laminate	Product Information
Premium PVC Wrap Films with Air-Egress Technology							
BETTER /// 3951RA + ProSlide® Premium Digital Printing Cast PVC Professional Wrapping Film with <i>RapidAir</i> ® + ProSlide® Technology with low initial tack	10 years	white	gloss	grey (white)	clear (transparent)	290 PVC Premium Cast 290F Optically Clear PVC Cast 279 Premium PVC-Free Cast PU ^{XP} 293 Ultra Flexible Premium Cast	
	8 years	now available in <i>transparent</i>		solvent-based, slideable, permanent, removable with heat			
BETTER /// 3951RA Premium Digital Printing Cast PVC with <i>RapidAir</i> ® Technology with standard initial tack	10 years	white		grey, solvent-based, repositionable, permanent removable with heat			
Premium PVC Free Polyurathane Wrap Films with Air-Egress Technology							
BEST /// 3971RA + ProSlide® ^{XP} Premium Digital (Cast) Polyurethane (PU) Wrapping Film with <i>RapidAir</i> ® + ProSlide® Technology with low initial tack	10 years	white	gloss	grey, solvent-based, repositionable, permanent removable with heat		279 Premium PVC-Free Cast PU ^{XP} Think of this digital print media and over-laminate combination as a customizable paint protection film!	
ORALITE® Product <i>(Reflective)</i>	Durability <i>(unprinted)</i>	Color	Finish	Adhesive		Recommended ORAGUARD® Laminate	Product Information
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		290 PVC Premium Cast 290F Optically Clear PVC Cast 279 Premium PVC-Free Cast PU ^{XP} 293 Ultra Flexible Premium Cast	










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	Product Information
GOOD /// 3551 High Performance Calendered PVC with CommandForm® Technology with standard initial tack	7 years	arctic white/ transparent	gloss	grey (arctic white)	clear (transparent)	293 Ultra Flexible Premium Cast 290 PVC Premium Cast 215 PVC <i>(flat applications only)</i>  279 Premium PVC-Free Cast PU  290F Optically Clear PVC Cast	
BETTER /// 3551RA High Performance Calendered PVC with RapidAir® Technology with standard initial tack		arctic white		solvent-based, repositionable, permanent, removable with heat			
BEST /// 3551RA + ProSlide® High Performance Polymeric PVC with RapidAir® + ProSlide® Technology with low initial tack				grey, solvent-based, repositionable, permanent, removable with heat			
ORALITE® Product <i>(Reflective)</i>	Durability <i>(unprinted)</i>	Color	Finish	Adhesive		Recommended ORAGUARD® Laminate	Product Information
GOOD /// 5600 Fleet Engineering Grade Reflective Film*	7 years	white	gloss	clear, solvent-based, permanent, removable with heat		293 Ultra Flexible Premium Cast 290 PVC Premium Cast 279 Premium PVC-Free Cast PU  290F Optically Clear PVC Cast	
BETTER /// 5650RA Fleet Engineering Grade Reflective Film with RapidAir® Technology with standard initial tack*				clear, solvent-based, permanent, removable with heat			
BEST /// 5600RA Fleet Engineering Grade Reflective Film with RapidAir® Technology with low initial tack*				clear, solvent-based, repositionable, permanent, removable with heat			

Watercraft Wraps



ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive <i>(based on color selection)</i>		Recommended ORAGUARD® Laminate	Product Information
GOOD /// 3551 High Performance Calendered PVC with CommandForm® Technology with standard initial tack	7 years	arctic white/ transparent	gloss	grey (arctic white)	clear (transparent)	290 PVC Premium Cast 290F Optically Clear PVC Cast 215 PVC <i>(flat applications only)</i>  279 Premium PVC-Free Cast PU  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			
GOOD /// 3551RA + ProSlide® High Performance Polymeric PVC with RapidAir® + ProSlide® Technology with low initial tack				grey, solvent-based, repositionable, permanent, removable with heat			
BEST /// 3951 Professional Wrapping Film with CommandForm® Technology with standard initial tack	8 years	transparent		grey (white)	clear (transparent)	290 PVC Premium Cast 290F Optically Clear PVC Cast 279 Premium PVC-Free Cast PU  293 Ultra Flexible Premium Cast	
BEST /// 3951RA Premium Digital Printing Cast PVC 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		8 years		white now available in <i>transparent</i>	grey (white)		clear (transparent)
					solvent-based, repositionable, permanent removable with heat		
BEST /// 3971RA + ProSlide®  Premium Digital (Cast) Polyurethane (PU) Wrapping Film with RapidAir® + ProSlide® Technology with low initial tack	10 years	white		grey, solvent-based, repositionable, permanent removable with heat		279 Premium PVC-Free Cast PU   Think of this digital print media and over-laminate combination as a customizable paint protection film!	



OFFICIAL GRAPHIC
MEDIA SUPPLIER OF



ANDRETTI
AUTOSPORT

ORAJET® 3971 RA+PS

Premium Digital Printing
(Cast) Polyurethane (PU) Media

with *RapidAir*® + *ProSlide*® Technology



ORAJET® 3951 RA+PS

Premium Digital
Printing Cast PVC

with RapidAir® + ProSlide® Technology



ORAJET® 3551 RA+PS

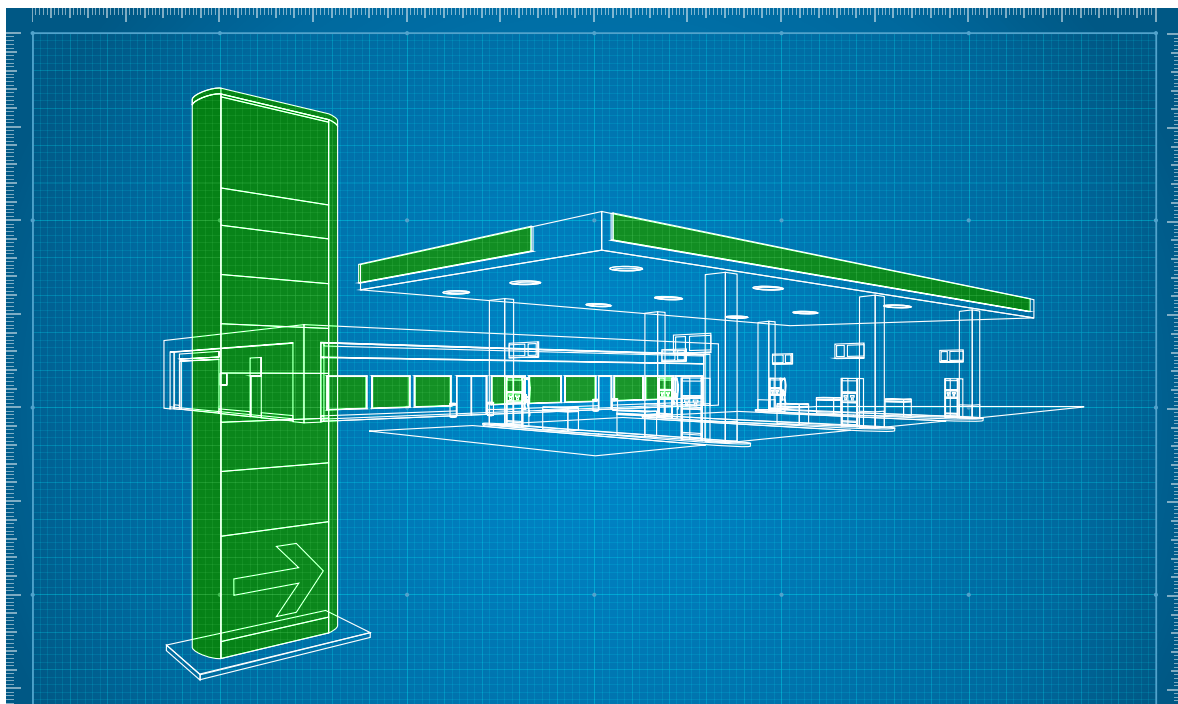
High Performance
Calendered PVC Digital
Print Media

with RapidAir® + ProSlide® Technology



Adhesive Tape Systems

Made by ORAFOL



We've Got You Covered!

SEEK+LEARN

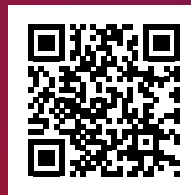


Automotive Solutions
Construction Solutions
General Industrial Solutions
Sign & Display Solutions
Home Appliance Solutions

ORAFOL + KPMF Wrap Training & Certification



CLICK + LEARN 



REGISTER TODAY!

discoverorafol.com/wraptraining



ORAGUARD® 215DU

Polymeric PVC Laminating Film

High quality Protection. No Silvering.

CLICK + LEARN 



ORAGUARD® 215DU Polymeric PVC Laminating Film is designed to anchor to and enhance textured UV Curable Inks utilized in flatbed printers. This film provides abrasion resistance and lasts up to 5 years! Ditch the messy liquid lamination. ORAGUARD® 215DU is available in gloss and matte finishes.

ORAGUARD® 215DU + ORAJET® Pairings

3850
Translucent Calendered

3691
Intermediate Removable Calendered PVC

3651 
Intermediate Calendered PVC

3651RA
Intermediate Calendered PVC with *RapidAir*® Technology

3551
High Performance Calendered PVC with CommandForm®
Technology with **standard initial tack**

3551DT
Low Temperature Ultra-Calendered PVC

3551RA
High Performance Calendered PVC with *RapidAir*® Technology with
standard initial tack

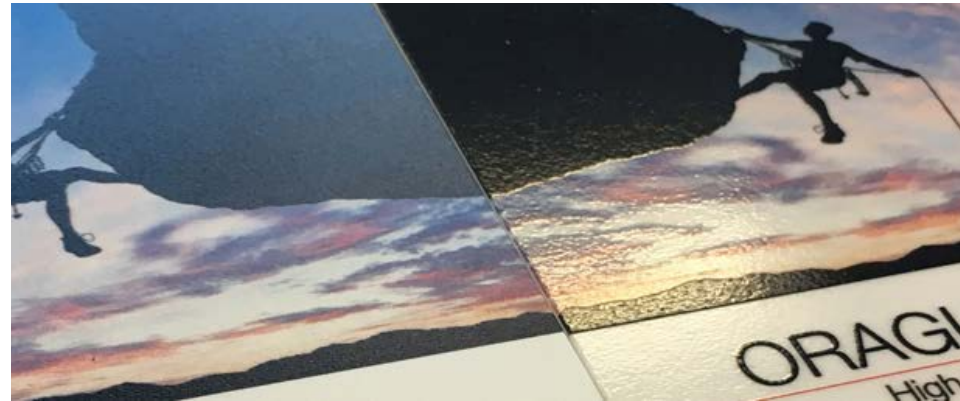
3551RA + ProSlide®
High Performance Polymeric PVC with *RapidAir*® + ProSlide®
Technology with **low initial tack**

3169RA
Intermediate Removable Calendered with *RapidAir*® Technology

3165
Intermediate Calendered PVC

3165RA
Intermediate Calendered PVC with *RapidAir*® Technology


3105HT
High-tack Calendered PVC



Unlaminated UV Print

Laminated with ORAGUARD® 215DU

ORAGUARD® 215DU

Durability	5 years
Color	transparent
Finish	gloss, matte
Adhesive	clear, solvent-based, permanent <small>CLICK + CONNECT </small>
Application	 (flat)

! Easily laminate your direct substrate prints:

- Acrylic
- Polycarbonate
- Aluminum
- ACM (*Aluminum Composite*)

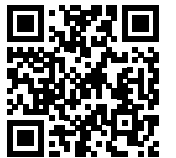
Eliminates trapped air, resulting in vivid prints and prevents premature delamination!



modular power solutions

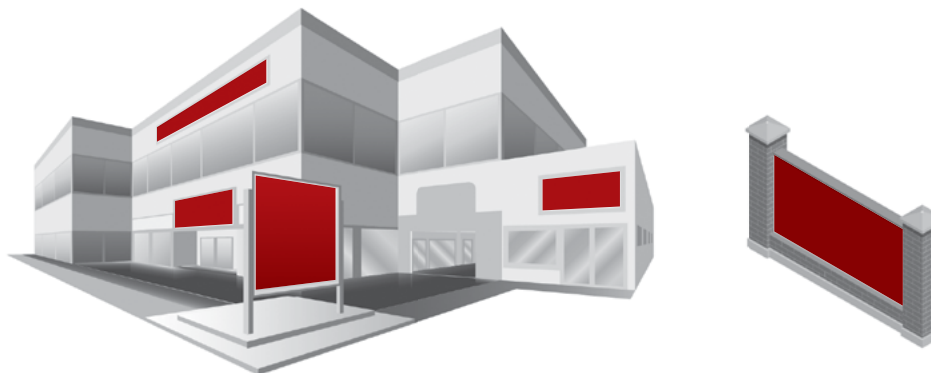
Outdoor Signage
and Wayfinding

CLICK + LEARN
















*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	Product Information
GOOD /// 3551 High Performance Calendered PVC with CommandForm® Technology with standard initial tack	7 years	arctic white/ transparent	gloss	grey (arctic white)	clear (transparent)	290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast 279 Premium PVC-Free Cast PU	
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 (white)	clear (transparent)	290 PVC Premium Cast 290F Optically Clear PVC Cast 279 Premium PVC-Free Cast PU 297GF Optically Clear Cast	
BEST /// 3951RA Premium Digital Printing Cast PVC 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		8 years					white now available in <i>transparent</i>
BEST /// 3971RA + ProSlide® Premium Digital (Cast) Polyurethane (PU) Wrapping Film with RapidAir® + ProSlide® Technology with low initial tack	10 years	white				279 Premium PVC-Free Cast PU	

Medium-term Outdoor Signage (5+ Years)

ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive <i>(based on color selection)</i>		Recommended ORAGUARD® Laminate	Product Information
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 gloss, matte	grey (white)	clear (transparent)		
BETTER /// 3651RA Intermediate Calendered PVC with <i>RapidAir</i> ® Technology		white	gloss	grey, solvent-based, permanent			
BETTER /// 3691 Intermediate Removable Calendered PVC			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 (arctic white)	clear (transparent)		
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	Product Information
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 279 Premium PVC-Free Cast PU  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)

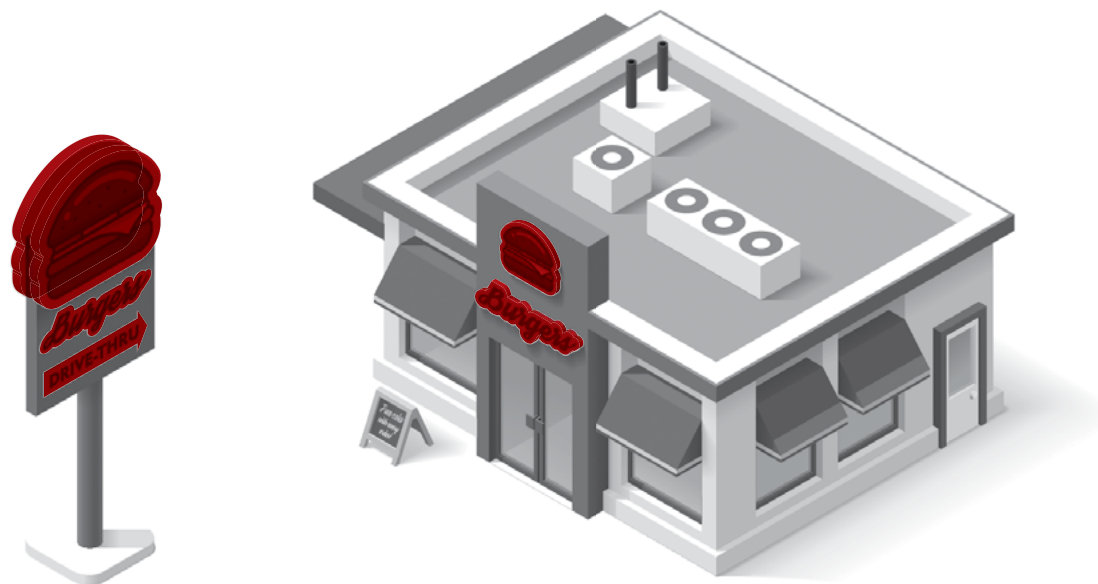
ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive		Recommended ORAGUARD® Laminate	Product Information
Removable Outdoor Signage							
GOOD /// 3621 Soft Calendered PVC	4 years	white	gloss, matte	grey, water-based, removable		210 PVC	
BETTER /// 3169RA Intermediate Removable Calendered PVC with <i>RapidAir®</i> Technology	5 years			grey, solvent-based, removable			
Permanent Outdoor Signage							
GOOD /// 3640 Soft Calendered PVC	4 years	white, transparent	gloss, matte	clear, water-based, permanent		210 PVC	
GOOD /// 3641 Soft Calendered PVC		white		grey, water-based, permanent			
GOOD /// 3164  Soft Calendered PVC		transparent	gloss	clear, water-based, permanent			
GOOD /// 3164RA Soft Calendered PVC with <i>RapidAir®</i> Technology		white	gloss, matte	grey, water-based, permanent			
GOOD /// 3164XRA Soft Calendered PVC with <i>RapidAir®</i> Technology				grey, solvent-based, permanent			
BETTER /// 3165 Intermediate Calendered PVC	5 years		gloss	grey, solvent-based, permanent			
BETTER /// 3165RA Intermediate Calendered PVC with <i>RapidAir®</i> Technology		white/ transparent					gloss, matte, semi-gloss
BEST /// 3651  Intermediate Calendered PVC			gloss, matte	grey (white)	clear (transparent)		
BEST /// 3651RA Intermediate Calendered PVC with <i>RapidAir®</i> Technology		white	gloss	grey, solvent-based, permanent			
ORALITE® Product <i>(Reflective)</i>	Durability <i>(unprinted)</i>	Color	Finish	Adhesive		Recommended ORAGUARD® Laminate	Product Information
Permanent Outdoor Signage							
BEST /// 5400 Commercial Grade Reflective	4 years	white	gloss	clear, solvent-based, permanent		215 PVC  215 DU	




Backlit Signage

*Image courtesy of SignCraft, Indianapolis, IN.
ORAJET® 3850 translucent with ORAGUARD® 290.*

Long-term Illuminated Graphics (7+ Years)




ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate	Product Information
BETTER /// 3850 Translucent Calendered	7 years	translucent, white	semi-gloss	clear, solvent-based, permanent	290 PVC Premium Cast 290F Optically Clear PVC Cast 279 Premium PVC-Free Cast PU  297GF 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 Performance that won't yellow or crack!**

Medium-term Illuminated Graphics

ORAJET® Product	Durability (unprinted)	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate	Product Information
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 Illuminated Graphics (4 Years or Less)

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

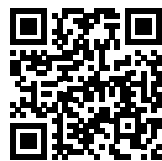
Transparent Films are designed to work with natural light to simulate a “stained glass” effect without obscuring the background. Transparent print films are quickly becoming the norm when applied to white acrylic and polycarbonate sign faces. Applying our transparent solvent-based adhesive films, using 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 South Shore Sign Company, Matawan, NJ.
ORAJET® 3620 with ORAGUARD® 200.



CLICK + LEARN 










Indoor Signs and Displays











*Image courtesy of The Kennickell Group, Savannah, GA.
ORAJET® 3169RA with ORAGUARD® 210.*

Permanent Indoor Signage and Displays














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

Permanent Indoor Signage and Displays continued

ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive <i>(based on color selection)</i>		Recommended ORAGUARD® Laminate	Product Information				
GOOD /// 3174  PVC-Free Digital Polypropylene (PP) (4-mil)	2 years	white	gloss	clear, water-based, permanent		236 PVC-Free 					
GOOD /// 3740*  Economical PVC-Free Polypropylene (PP) (3-mil)			matte								
BETTER /// 3258 Semi-Rigid Calendered PVC	4 years		gloss, matte	grey, solvent-based, permanent		Not necessary					
BETTER /// 3165 Intermediate Calendered PVC	5 years						gloss	210 PVC			
BETTER /// 3165RA Intermediate Calendered PVC with <i>RapidAir</i> ® Technology		light yellow	clear, solvent-based, permanent		293 Ultra Flexible Premium Cast 290 PVC Premium Cast						
BETTER /// 3930 Photoluminescent (glow-in-the-dark)						white	gloss, matte semi-gloss	grey (white) clear (transparent)		210 PVC	
BEST /// 3651  Intermediate Calendered PVC		white/ transparent	gloss, matte	solvent-based, permanent							
		BEST /// 3651RA Intermediate Calendered PVC with <i>RapidAir</i> ® Technology	white								












! ORAJET® Digital Medias are Latex, Solvent*, Eco-solvent*, and UV curable* compatible!
*ORAJET® 3676 and 3675 are not UV curable compatible. ORAJET® 3740 and 3720 is not solvent or eco-solvent compatible.

Removable Indoor Signage and Displays

ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate	Product Information
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				210 PVC 200 Economy PVC 236 PVC-Free 	
GOOD /// 3720*  Economical PVC-Free Polypropylene (PP)	2 years				236 PVC-Free 	
BETTER /// 3621 Soft Calendered PVC	4 years	white	gloss, matte	grey, water-based, removable	210 PVC 200 Economy PVC 236 PVC-Free 	
BETTER /// 3620 Transparent PVC Window Graphics				clear, water-based, removable		
BEST /// 3169RA Intermediate Removable Calendered with <i>RapidAir®</i> Technology				grey, solvent-based, removable		
BEST /// 3691 Intermediate Removable Calendered PVC	5 years	white			210 PVC	

! ORAJET® Digital Medias are Latex, Solvent*, Eco-solvent*, and UV curable* compatible!
*ORAJET® 3676 and 3675 are not UV curable compatible. ORAJET® 3740 and 3720 is not solvent or eco-solvent compatible.

Floor Graphics

ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive <i>(based on color selection)</i>		Recommended ORAGUARD® Laminate	Product Information
Indoor Removable Floor Graphics							
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 /// 3621 Soft Calendered PVC	4 years			grey, water-based, removable			
BETTER /// 3169RA Intermediate Removable Calendered with <i>RapidAir</i> ® Technology	5 years			grey, solvent-based, removable			
Indoor Permanent Floor Graphics							
GOOD /// 3641 Soft Calendered PVC	4 years	white	gloss, matte	grey, water-based, permanent		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>	
BETTER /// 3165 Intermediate Calendered PVC	5 years			gloss	grey, solvent-based, permanent		
BETTER /// 3165RA Intermediate Calendered PVC with <i>RapidAir</i> ® Technology							
BEST /// 3651  Intermediate Calendered PVC		white	gloss, matte semi-gloss	grey (white)	clear (transparent)		
		transparent	gloss, matte	solvent-based, permanent			
BEST /// 3651RA Intermediate Calendered PVC with <i>RapidAir</i> ® Technology		white	gloss	grey, solvent-based, permanent			
Outdoor Permanent Floor Graphics							
BEST /// 3105HT High-tack Calendered PVC Digital Media	5 years	white	gloss	grey, solvent-based, permanent /// 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.

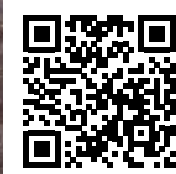
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*Image (above) courtesy of Moto GFX, Beaverton, OR. ORAJET® 3169RA with ORAGUARD® 250AS.
Image (right) courtesy of Maryland Signs and Graphics, Towson, MD. ORAJET® 1663 with ORAGUARD® 255AS.*



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Wall Graphics



Image courtesy of The Kennickell Group, Savannah, GA.
ORAJET® 3169RA with ORAGUARD® 210.

Removable, Smooth, Latex Painted Wall Surfaces

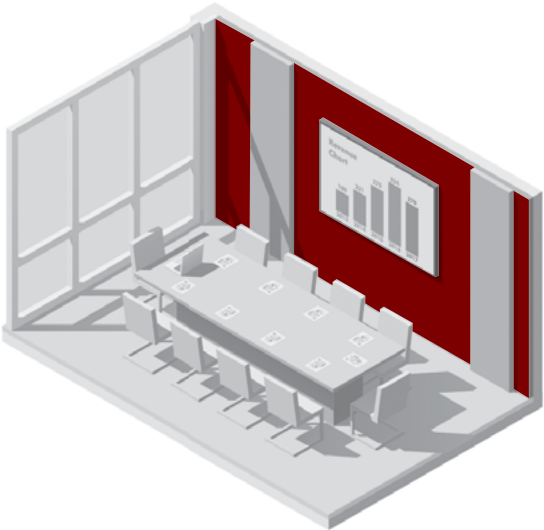


ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive <i>(based on color selection)</i>		Recommended ORAGUARD® Laminate	Product Information		
GOOD /// 3621 Soft Calendered PVC	4 years	white	gloss, matte	grey (3621)	clear (3628, 3268)	210 PVC 200 Economy PVC			
GOOD /// 3628 Low-Tack Wall and Window Graphics	3 years		matte				water-based, removable	Not necessary	
GOOD /// 3268 Low-Tack Movable Wall Graphics	2 years			clear, water-based, removable	236 PVC-Free 				
GOOD /// 3720  Economical PVC-Free Polypropylene (PP)									
BETTER /// 3169RA Intermediate Removable Calendered with <i>RapidAir</i> ® Technology	5 years			gloss, matte	grey, solvent-based, removable				
BEST /// 3691 Intermediate Removable Calendered PVC									


Permanent, Smooth, Latex Painted Wall Surfaces

ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive <i>(based on color selection)</i>		Recommended ORAGUARD® Laminate	Product Information	
GOOD /// 3640* Soft Calendered PVC	4 years	white, transparent	gloss, matte	clear, water-based, permanent		210 PVC 200 Economy PVC		
GOOD /// 3641* Soft Calendered PVC		grey, water-based, permanent						
GOOD /// 3174*  PVC-Free Digital Polypropylene (PP) (4-mil)	2 years	white	gloss	clear, water-based, permanent		236 PVC-Free 		
GOOD /// 3740*  Economical PVC-Free Polypropylene (PP) (3-mil)			matte					
BETTER /// 3165* Intermediate Calendered PVC	5 years		gloss, matte	grey, solvent-based, permanent solvent-based, permanent		210 PVC 215 PVC  215 DU		
BETTER /// 3165RA* Intermediate Calendered PVC with <i>RapidAir</i> ® Technology			gloss					
BETTER /// 3651*  Intermediate Calendered PVC		white, transparent	gloss, semi-gloss, matte (white) gloss, matte (transparent)	grey (white)	clear (transparent)			
BETTER /// 3651RA* Intermediate Calendered PVC with <i>RapidAir</i> ® Technology		white		grey, solvent-based, permanent				
BEST /// 3551* High Performance Calendered PVC with CommandForm® Technology with standard initial tack	7 years	arctic white, transparent	gloss	grey (arctic white)		clear (transparent)	215 PVC  215 DU 290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast	
BEST /// 3551RA* High Performance Calendered PVC with <i>RapidAir</i> ® Technology with standard initial tack		arctic white						solvent-based, repositionable, permanent
BEST /// 3930* Photoluminescent (Glow-in-the-Dark)	5 years	light yellow		clear, solvent-based, permanent		293 Ultra Flexible Premium Cast		

High-Tack, Smooth,
Hard-to-Stick, Washable,
Scrubbable, Latex Painted
Wall Surfaces



ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate	Product Information
BEST /// 3954* Textured Surface Wrap Film	10 years	white	gloss	grey, solvent polyacrylate, permanent	290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast	

 Always inspect wall surfaces and validate material compatibility prior to completing any wall graphic or mural project. **Contact the Product Support Team at 888-672-2251 for more details.**

*May damage wall surface upon removal



Wall Graphic Tips: Paint Compatibility

*Image courtesy of Andretti Autosport.
ORAJET® 3621 with ORAGUARD® 210.*

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.

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Image (right) courtesy of Great Lakes Film and Graphics, Menomonee Falls, WI.
ORAJET® 3651RA with ORAGUARD® 290M.





Wall Graphic Tips: Hard-to-Stick

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*Image courtesy of Palavana Cubano, Indianapolis, IN.
ORAJET® 3954 with ORAGUARD® 290.*

ORAJET® 3954
Textured Surface Wrap Film
Brick | Concrete | Block

CLICK + LEARN








Image courtesy of The Kennickell Group, Savannah, GA.
ORAJET® 3954 with ORAGUARD® 290.





Interior and Exterior Textured Wall Surfaces

ORAJET® Product	Durability <small>(unprinted)</small>	Color	Finish	Adhesive		Recommended ORAGUARD® Laminate	Product Information
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 <small>(arctic white)</small>	clear <small>(transparent)</small>	290 PVC Premium Cast 290F Optically Clear PVC Cast 279 Premium PVC-Free Cast PU ^(XP) 293 Ultra Flexible Premium Cast	
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 Premium Digital Printing Cast PVC 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 Textured Surface Wrap Film	10 years	white	gloss	grey, solvent-based, permanent		290 PVC Premium Cast 290F Optically Clear PVC Cast 279 Premium PVC-Free Cast PU ^(XP) 293 Ultra Flexible Premium Cast	



Solvent-based vs. Water-based Adhesive

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.

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Image courtesy of The Kennickell Group, Savannah, GA.
ORAJET® 3954 with ORAGUARD® 290.
















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Window Graphics

*Image courtesy of The Kennickell Group, Savannah, GA.
ORAJET® 3952F with ORAGUARD® 252F.*

Permanent Architectural Window Graphics

ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive <i>(based on color selection)</i>		Recommended ORAGUARD® Laminate	Product Information
GOOD /// 3164*  Soft Calendered PVC	4 years	white	gloss, matte	clear, water-based, permanent		210 PVC 200 Economy PVC 236 PVC-Free 	
		transparent	gloss				
GOOD /// 3174*  PVC-Free Digital Polypropylene (PP) (4-mil)	2 years	white					
GOOD /// 3740*  Economical PVC-Free Polypropylene (PP) (3-mil)							
BEST /// 3676* Perforated Window Graphics PVC (60/40)*	4 years	white <i>(reverse is black)</i>	gloss	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 (white)	clear (transparent)	215 PVC  210 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 (arctic white)	clear (transparent)	215 PVC  215 DU	
		transparent		solvent-based, repositionable, permanent, removable with heat			
BEST /// 3952F Optically Clear Digital Printing Film	7 years	transparent		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 (white)	clear (transparent)	290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast	
	8 years	transparent	solvent-based, repositionable, permanent, removable with heat				

Removable Architectural Window Graphics

ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive <i>(based on color selection)</i>	Recommended ORAGUARD® Laminate	Product Information
GOOD /// 3620* Transparent PVC Window Graphics	4 years	white	gloss, matte	clear, water-based, removable	210 PVC 200 Economy PVC 236 PVC-Free 	
GOOD /// 3621* Soft Calendered PVC		transparent		grey, water-based, removable		
GOOD /// 3720*  Economical PVC-Free Polypropylene (PP)	2 years	white	matte	clear, water-based, removable	236 PVC-Free 	
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						

Vehicle Perforated Window Graphics

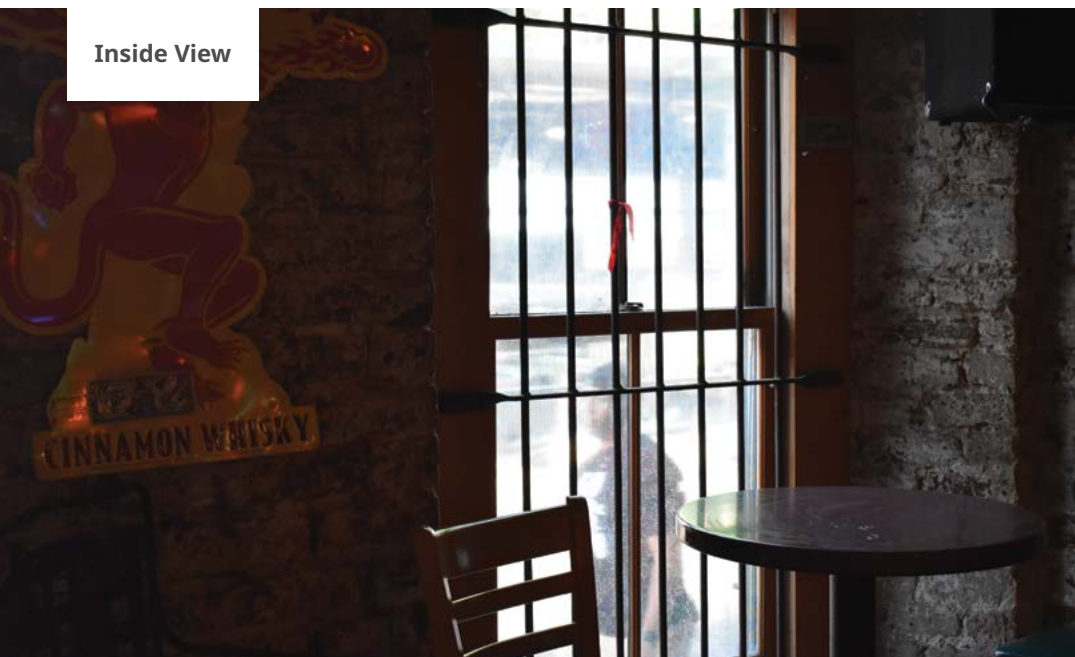
ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate	Product Information
3675 Perforated Window Graphics PVC (50/50)*	4 years	white <i>(reverse is black)</i>	gloss	clear, solvent-based, permanent	297GF Optically Clear Cast (thicker) 290F Optically Clear PVC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



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



Outside View



Inside View

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.

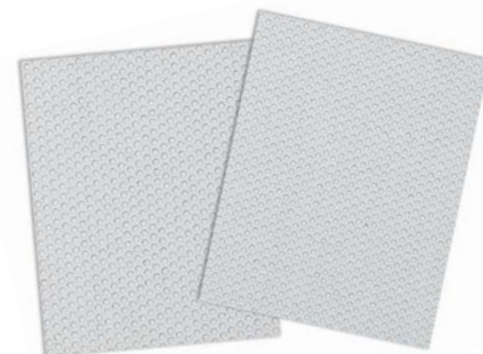


Image courtesy of Megan Kranzler.
ORAJET® 3676 with ORAGUARD® 297GF.

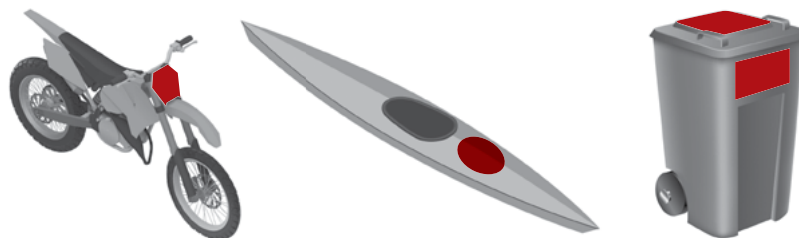


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Specialty Applications





*Image courtesy of Spider Graphix, Monrovia, IN.
ORAJET® 3105HT with ORAGUARD® 290.*



Low Energy Plastics








ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate	Product Information
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  270 Stone Guard Films 215 DU	
BEST /// 3951HT High-tack Cast PVC	7 years				279 Premium PVC-Free Cast PU 	

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

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




























Promotional Decals

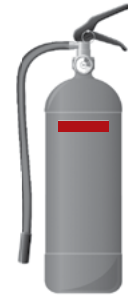
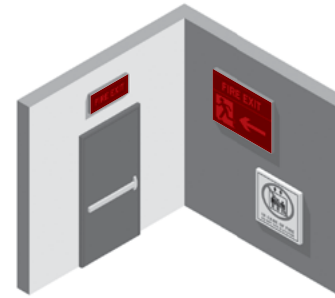
ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate	Product Information
Removable Promotional Decals						
GOOD /// 3268 Low-Tack Movable Wall Graphics	3 years	white	matte	clear, water-based, removable	210 PVC 200 Economy PVC 236 PVC-Free 	
BEST /// 3169RA* Intermediate Removable Calendered with <i>RapidAir®</i> Technology	5 years		gloss, matte	grey, solvent-based, removable	210 PVC 215 PVC  215 DU	
Permanent Promotional Decals						
GOOD /// 3258 Semi-Rigid Calendered PVC	4 years	white	gloss, matte	grey, solvent-based, permanent	Not necessary	
BEST /// 3164HT High-tack Calendered PVC		white/ transparent	gloss, matte/ gloss	clear, water-based, permanent with high initial tack and final adhesion	210 PVC (optional) 215 PVC (optional)  215 DU (optional)	
ORALITE® Product <i>(Reflective)</i>	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate	Product Information
BEST /// 5400 Commercial Grade	4 years	white, yellow, orange, red, green, blue	gloss	clear, solvent-based, permanent,	215 PVC (optional)  215 DU (optional)	

Industrial Labels



ORAJET® Product	Durability <i>(unprinted)</i>	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate	Product Information																																																	
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 (glow-in-the-dark)	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		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		white	gloss	grey, solvent-based, permanent with high initial tack and final adhesion	215 PVC  215 DU	BEST /// 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	Product Information	BEST /// 820 Safety Vinyl (<i>Anti-Tamper Vinyl</i>)	5 years
GOOD /// 3930 Photoluminescent (glow-in-the-dark)	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																																																			
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																																																			
		white	gloss	grey, solvent-based, permanent with high initial tack and final adhesion			215 PVC  215 DU																																																
BEST /// 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	Product Information																																																	
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 (unprinted)	Color	Finish	Adhesive	Recommended ORAGUARD® Laminate	Product Information
BEST /// 3930 Photoluminescent (Glow-in-the-Dark)	5 years	light yellow	gloss	clear, solvent-based, permanent	293 Ultra Flexible Premium Cast 290 PVC Premium Cast	

Tamper-Evident Applications

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

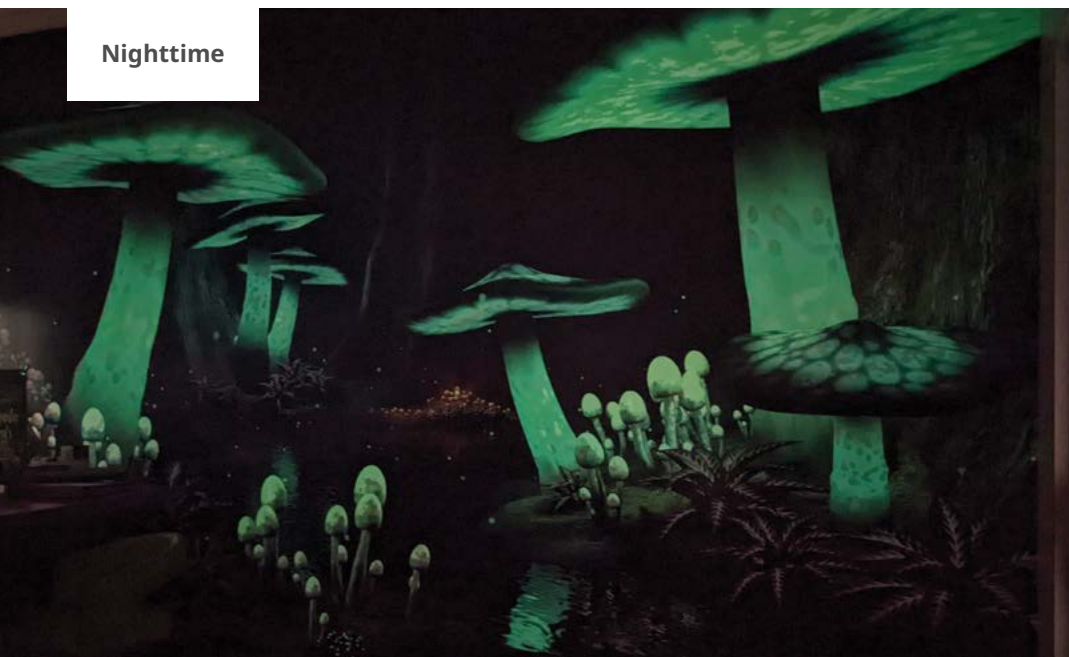
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ORACAL® 820 is designed to be very difficult to remove which makes it **perfect** for tamper evident parking decals and regulated industrial and safety labels.



Daytime



Nighttime

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, daycares, 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 or ORAGUARD® 293 for added graphic protection.

Digital Print Media

Product Overview























PVC Cast
(PU) Polyurethane Cast & Extruded
Reflective

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										
3971 RA + ProSlide® ^{XP} Premium Digital Cast Polyurethane (PU) Wrapping Film with <i>RapidAir®</i> + <i>ProSlide®</i> 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 <i>RapidAir®</i> + <i>ProSlide®</i> technology to facilitate quicker, easier application	  
3951 RA + ProSlide® Premium Digital Printing Cast PVC Professional Wrapping Film with <i>RapidAir®</i> + <i>ProSlide®</i> Technology with low initial tack	8 years		30", 50", 54"*, 60" *10-yard only	150' (50-yard) 30' (10-yard) 75' (25-yard)	white now available in transparent		<div>grey (white)</div> <div>clear (transparent)</div> solvent-based, slideable, permanent, removable with heat	 		
RapidAir® — Standard Initial-Tack with Air-Egress Technology										
3951 RA Professional Wrapping Film with <i>RapidAir®</i> 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 <i>RapidAir®</i> 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	<div>grey (white)</div> <div>clear (transparent)</div> solvent-based, slideable, permanent, removable with heat	88# PE-coated silicone paper	  	
	8 years				transparent		 			
3951HT High-tack Cast PVC	7 years		30"*, 54" *25-yard only	150' (50-yard) 75' (25-yard)	white		grey, solvent-based, permanent with high initial tack and final adhesion		★ 	
3954 Textured Surface Wrap Film	10 years		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 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 <i>(Reflective)</i>	Durability <i>(unprinted)</i>	Thickness	Standard Widths	Standard Lengths	Color	Finish	Adhesive		Release Liner	Application
5650RA Fleet Engineering Grade Reflective Film with <i>RapidAir®</i> 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 <i>RapidAir®</i> technology to facilitate quicker, easier application	 
5600RA Fleet Engineering Grade Reflective Film with <i>RapidAir®</i> 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		88# PE-coated	 
5400 Commercial Grade	4 years	3.5-mil	15" (punched), 24", 30", 48"	150' (50-yard)			clear, solvent-based, permanent	 		

Digital Print Media

Product Overview

High Performance (Ultra-Calendered)
Intermediate Calendered


























ORAJET® Product	Durability <i>(unprinted)</i>	Thickness	Standard Widths	Standard Lengths	Color	Finish	Adhesive	Release Liner	Application
Intermediate									
3691 Intermediate Removable Calendered PVC	5 years	2.75-mil	54", 60"	150' (50-yard)	white	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		  
			15", 30", 36", 50", 54", 60"						
3651  Intermediate Calendered PVC			30", 36", 50", 54", 60"		transparent	gloss, matte* <i>*(30", 54", 60" only)</i>	grey <i>(matte finish)</i>	clear <i>(gloss finish)</i>	
3169RA Intermediate Removable Calendered with <i>RapidAir</i> ® Technology		54", 60"	gloss, matte						grey, solvent-based, removable
3165RA Intermediate Calendered PVC with <i>RapidAir</i> ® Technology		4-mil	30", 54", 60"		white	gloss	grey, solvent-based, permanent		 
3165 Intermediate Calendered PVC									
High Performance									
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		
3551RA + ProSlide® High Performance Polymeric PVC with <i>RapidAir</i> ® + ProSlide® Technology with low initial tack		2.75-mil	54", 60"	150' (50-yard)	arctic white	gloss	grey, solvent-based, repositionable, permanent		 
3551RA High Performance Calendered PVC with <i>RapidAir</i> ® Technology with standard initial tack			30", 50", 54", 60"				  		
			30", 36", 54", 60"				solvent-based, repositionable, permanent, removable with heat		
3551 High Performance Calendered PVC with CommandForm® Technology with standard initial tack			30", 54", 60"		transparent	  			
3551DT Low Temperature Ultra-Calendered PVC				54"	75' (25-yard)	arctic white	clear, solvent-based, permanent		  



Digital Print Media

Product Overview




























Economical (Specialty)



ORAJET® Product	Durability <i>(unprinted)</i>	Thickness	Standard Widths	Standard Lengths	Color	Finish	Adhesive	Release Liner	Application
3740  Economical PVC-Free Polypropylene (PP) (3-mil)	2 years	3-mil	54"	150' (50-yard)	white	matte	clear, water-based, permanent		  
3720  Economical PVC-Free Polypropylene (PP)							clear, water-based, removable		
3641 Soft Calendered PVC	4 years	3-mil	30", 50", 54", 60"	150' (50-yard)	white	gloss, matte	grey, water-based, permanent	83# PE-coated silicone paper	 
3640 Soft Calendered PVC			30", 50", 54", 60", 80"		white, transparent		clear, water-based, permanent		  
3628 Low-Tack Wall and Window Graphics	3 years		30", 54", 60"		white	matte	clear, water-based, removable		 
3621 Soft Calendered PVC	4 years		30", 36", 50", 54", 60", 80"			gloss, matte	grey, water-based, removable		 
3620 Transparent PVC Window Graphics			30", 50", 54", 60", 80"		transparent		clear, water-based, removable		 
3258 Semi-Rigid Calendered PVC			2 years		6-mil		30", 54", 60"		100' (33.33-yard)
3268 Low-Tack Movable Wall Graphics	4-mil	54"		150' (50-yard)		matte	clear, water-based, removable	83# PE-coated silicone paper	
3174  PVC-Free Digital Polypropylene (PP) (4-mil)		30", 54", 60"			white, transparent	gloss, matte	clear, water-based, permanent	83# PE-coated silicone paper	
3164HT High-tack Soft Calendered PVC	4 years	30", 50", 54", 60"	white	grey, water-based, permanent			89# PE-coated silicone paper	 	
3164XRA Soft Calendered PVC with <i>RapidAir®</i> Technology		30", 50", 54", 60"			clear, water-based, permanent	83# PE-coated silicone paper			   
3164RA Soft Calendered PVC with <i>RapidAir®</i> Technology		30", 50", 54", 60", 80"	transparent* <i>*(54" only)</i>	gloss					
3161DT Low Temperature Soft Calendered PVC		5 years	4.25-mil	54"	75' (25-yard)	white	gloss	clear, solvent-based, permanent	83# PE-coated silicone paper
3105HT High-tack Calendered PVC	30", 54", 60"			150' (50-yard)* 30' (10-yard) * <i>(60" only)</i>	grey, solvent-based, permanent with high initial tack and final adhesion			88# PE-coated silicone paper	
1663 Calendered PVC for Floor Graphics	3 years			30", 36", 50", 54", 60"	150' (50-yard)		gloss, matte* <i>*(30", 50", 54", 60")</i>	clear, solvent-based, removable	83# PE-coated silicone paper
ORACAL® Product	Durability <i>(unprinted)</i>	Thickness	Standard Widths	Standard Lengths	Color	Finish	Adhesive	Release Liner	Application
820 Safety Vinyl (Anti-Tamper Vinyl)	5 years	2-mil	40", 55" <i>sheet sizes available by special order</i>	165' (55-yard)	white	gloss, matte	solvent polyacrylate, permanent	88# PE-coated release paper on both sides	

A large maroon square containing two overlapping circles of different shades of maroon on the left side. The text is centered in the square.

Laminating Films

Product Overview

ORAGUARD® Product	Base Material	Durability <i>(vertical exposure)</i>	UV Protection Ext. Factor	Wound Direction	Thickness	Standard Widths	Standard Lengths	Color	Finish	Adhesive	Release Liner	Application		
Cast														
279  Premium PVC-Free Cast PU	polyurethane	10 years	5+ years	Reverse Wound	2-mil	54", 60"	150' (50-yard) 75' (25-yard)	transparent	gloss, semi-gloss	clear, solvent-based, permanent	55# coated silicone paper	 		
297GF Optically Clear Premium Cast PVC	PVC	8 years	4+ years	Forward Wound	2.75-mil	24", 30", 54"	150' (50-yard) 75' (25-yard) 30' (10-yard)		gloss		1.4-mil silicone coated polyester film	   		
293 Ultra Flexible Cast PVC				Reverse Wound	1-mil	24", 30", 36", 50", 54", 60"					150' (50-yard) 75' (25-yard) 30' (10-yard) *matte finish only	matte	55# coated silicone paper	  
290F Optically Clear Premium Cast PVC				Forward Wound	2-mil								1.6-mil silicone coated polyester film	 
290 Premium Cast				Reverse Wound	2-mil								55# coated silicone paper	  
252F Enhanced Optically Clear Premium Cast PVC	PVC	8 years	4+ years	Reverse Wound	2-mil	54", 60"	150' (50-yard) 75' (25-yard)		gloss		2.95-mil silicone coated polyester film			
Calendered														
215DU* UV Print Laminating Film	PVC	5 years	3+ years	Reverse Wound	3-mil	54", 60"	150' (50-yard)	transparent	gloss, matte	clear, solvent-based, permanent	55# coated silicone paper	 		
215  PVC Laminating Film						30", 36", 50", 54", 60"			gloss, semi-gloss, matte			  		
210 PVC Laminating Film		4 years	2+ years		2.5-mil							54"	gloss, matte	clear, water-based, permanent
200 Economy PVC		2 years	1+ years			Forward Wound								
236  PVC-Free	polypropylene													
Textured, Anti-Skid Floor Graphic Laminate														
255AS Skid-Resistant PVC for High Load Exposure	PVC	6 months	N/A	Forward Wound	6.5-mil	36", 50", 54"	150' (50-yard)	transparent	raised, skid-resistant, textured surface	clear, solvent-based, permanent	55# coated silicone paper			
250AS Skid-Resistant PVC		3 months			4.75-mil									
Paint Protection Film														
270 Economical PPF Stone Guard Film	PVC	5 years	N/A	Forward Wound	6-mil	24", 30", 50", 60"	75' (25-yard) 30' (10-yard)	transparent	gloss	clear, solvent-based, permanent	84# kraft paper, siliconized on one side	 		

 Very stable and won't shrink!
 Extreme Performance that won't yellow or crack!



Process & Handling

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.

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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.

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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.

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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.**

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Compatibility & Expected Durability

Qualified ORAJET® Media	Recommended Applications	Recommended ORAGUARD® Laminate
OCS 8™ 8 Year Durability - Printed Laminated Durability		
3971RA+ProSlide®  Premium Digital Cast Polyurethane (PU) Wrapping Film with RapidAir®+ProSlide® Technology with low initial tack	 (complex and moderate curves, flat)	279 Premium PVC-Free Cast PU 
OCS 7™ 7 Year Durability - Printed Laminated Durability		
3951 Professional Wrapping Film with CommandForm® Technology with standard initial tack	 (complex and moderate curves, flat)	279 Premium PVC-Free Cast PU  290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast
3951HT High-tack Cast PVC	 (complex, flat, hard-to-stick)	
3951RA Professional Wrapping Film with RapidAir® Technology with standard initial tack	 (complex and moderate curves, flat)	
3951RA+ProSlide® Premium Digital Printing Cast PVC Professional Wrapping Film with RapidAir®+ProSlide® Technology with low initial tack	 (complex and moderate curves, flat)	



Printed Laminated Durability

OCS 6™ 6 Year Durability

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Qualified ORAJET® and ORALITE® Media	Recommended Applications	Recommended ORAGUARD® Laminate
OCS 6™ 6 Year Durability - Printed Laminated Durability		
3952F Optically Clear Digital Print Film		252F Enhanced Optically Clear Premium Cast PVC
3850 Translucent Calendered		290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast
3551RA + ProSlide® High Performance Polymeric PVC with RapidAir® + ProSlide® Technology with low initial tack	 (complex and moderate curves, flat)	279 Premium PVC-Free Cast PU (XP) 290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast
3551RA High Performance Calendered PVC with RapidAir® Technology with standard initial tack	 (moderate curves, flat)	
3551 High Performance Calendered PVC with CommandForm® Technology with standard initial tack	 (moderate curves, flat)	
3551DT Low Temperature Ultra-Calendered PVC	 (moderate curves, flat)	290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast
5650RA Fleet Engineering Grade Reflective Film with RapidAir® Technology with standard initial tack		
5600RA Fleet Engineering Grade Reflective Film with RapidAir® Technology with low initial tack		
5600 Fleet Engineering Grade Reflective Film		

Qualified ORAJET® Media	Recommended Applications	Recommended ORAGUARD® Laminate
OCS 5™ 5 Year Durability - Printed Laminated Durability		
3105HT High-tack Calendered PVC	★ ▲	290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast
3954 Textured Surface Wrap Film	▲ (textured)	
3850 Translucent Calendered	⏏	
3691 Intermediate Removable Calendered PVC	⏏ □	215 PVC cUL [®] 215 DU
3651 cUL [®] Intermediate Calendered PVC	⏏ □ ⏏ □	
3651RA Intermediate Calendered PVC with <i>RapidAir</i> ® Technology	⏏ □ □	
3551 High Performance Calendered PVC with CommandForm® Technology with standard initial tack	⏏ □ ⏏ □	
3551RA High Performance Calendered PVC with <i>RapidAir</i> ® Technology with standard initial tack	⏏ □ □	
3551DT Low Temperature Ultra-Calendered PVC		
3169RA Intermediate Removable Calendered PVC with <i>RapidAir</i> ® Technology		
3165 Intermediate Calendered PVC		
3165RA Intermediate Calendered PVC with <i>RapidAir</i> ® Technology		

Expected Durability is based on Vertical Exposure located in Climate Zone 1.
Climate Zone information can be found on page 61.

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Printed Laminated Durability



OCS 4™ 4 Year Durability

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Qualified ORAJET® and ORALITE® Media	Recommended Applications	Recommended ORAGUARD® Laminate
OCS 4™ 4 Year Durability - Printed Laminated Durability		
3971RA + ProSlide®  Premium Digital Cast Polyurethane (PU) Wrapping Film with <i>RapidAir</i> ® + ProSlide® Technology with low initial tack	 (complex and moderate curves, flat)	279 Premium PVC-Free Cast PU 
3676 Perforated Window Graphics PVC (60/40)		297GF Optically Clear Cast
3675 Perforated Window Graphics PVC (50/50)		
3651  Intermediate Calendered PVC	   	210 PVC
3651RA Intermediate Calendered PVC with <i>RapidAir</i> ® Technology	  	
3641 Soft Calendered PVC	  (short-term)	
3640 Soft Calendered PVC		
3620 Transparent PVC Window Graphics		
3621 Soft Calendered PVC		
3169RA Intermediate Removable Calendered with <i>RapidAir</i> ® Technology		
3165 Intermediate Calendered PVC	  	
3165RA Intermediate Calendered PVC with <i>RapidAir</i> ® Technology	  (short-term)	
3164  Soft Calendered PVC		
3164RA Soft Calendered PVC with <i>RapidAir</i> ® Technology		
3164XRA Soft Calendered PVC with <i>RapidAir</i> ® Technology		
3164HT High-tack Calendered PVC		
3161DT Low Temperature Soft Calendered PVC		
5400 Commercial Grade		215 PVC  215 DU

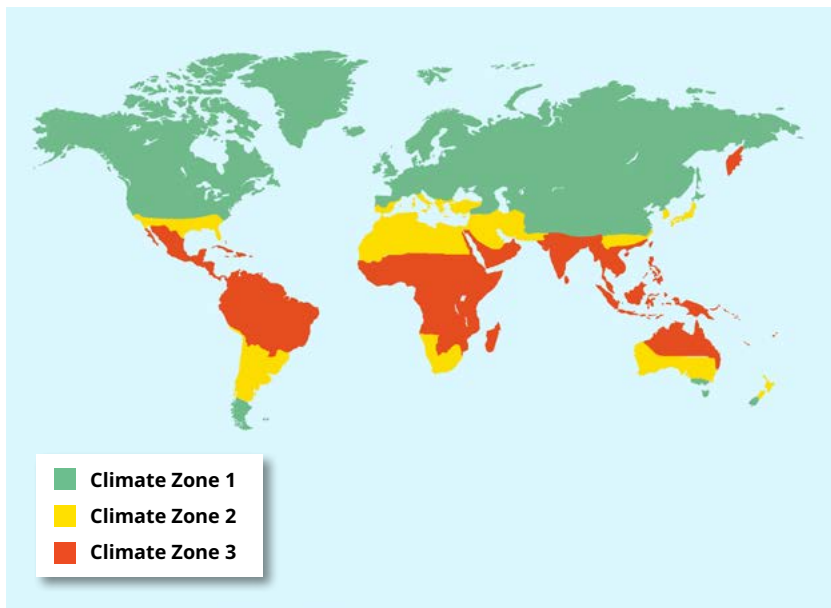
^{XP} Extreme Performance that won't yellow or crack!

Qualified ORAJET® Media	Recommended Applications	Recommended ORAGUARD® Laminate
OCS 3™ 3 Year Durability - Printed Laminated Durability		
3951 Professional Wrapping Film with CommandForm® Technology with standard initial tack	 (complex and moderate curves, flat)	290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast
3951RA Professional Wrapping Film with <i>RapidAir</i> ® Technology with standard initial tack		
3951RA + ProSlide® Premium Digital Printing Cast PVC Professional Wrapping Film with <i>RapidAir</i> ® + ProSlide® Technology with low initial tack		279 Premium PVC-Free Cast PU (XP) 290 PVC Premium Cast 290F Optically Clear PVC Cast 293 Ultra Flexible Premium Cast
3551RA High Performance Calendered PVC with <i>RapidAir</i> ® Technology with standard initial tack		
3621 Soft Calendered PVC		210 PVC
3620 Transparent PVC Window Graphics		

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Printed Laminated Durability
OCS 3™ 3 Year Durability



Expected Maximum Service Life in Years for Unprinted ORAFOL® Films

Vertical & Horizontal Exposure In Years. Visit orafol.com to review the intended product's technical data sheet listed in this guide to determine its Climate Zone 1 expected outdoor durability.

Climate Zone 1* Mild Climate		Climate Zone 2* Humid/Warm Climate		Climate Zone 3* Dry/Hot Climate	
Vertical In Years	Horizontal In Years	Vertical In Years	Horizontal In Years	Vertical In Years	Horizontal In Years
12	6	10	5	8	4
10	5	8	4	6	3
8	4	6	3	4	2
7	3.5	5	2.5	3	1.5
6	3	4	2	2	1
5	2.5	3	1.5	1.5	0.75
4	2	2	1	1	0.5
3	1.5	1	0.5	0.5	0.25

* Maximum expected service life in years

Climate Zone 1			
Mild Climate			
Canada			
United States			South America
Alaska	Northern Missouri	Connecticut	Southern Chile Southern Argentina
Washington	Wisconsin	New Hampshire	
Oregon	Illinois	Rhode Island	
Northern California	Michigan	Maine	
Idaho	Indiana		
Montana	Ohio		
Wyoming	Northern Kentucky		
Northern Utah	Pennsylvania		
Colorado	West Virginia		
North Dakota	Maryland		
South Dakota	Delaware		
Nebraska	New Jersey		
Kansas	New York		
Minnesota	Vermont		
Iowa	Massachusetts		

Climate Zone 2 Humid/Warm Climate		
United States		South America
Central and Southern California	Tennessee	Central and Northern Chile
Nevada	Georgia	Southern Peru
Central and Southern Utah	Southern West Virginia	Southern Bolivia
Arizona	Virginia	Uruguay
New Mexico	North Carolina	Argentina
Oklahoma	South Carolina	
Texas	Northern and Central Florida	
Mississippi		
Alabama		
Central and Southern Missouri		
Arkansas		
Louisiana		
Central and Southern Kentucky		

Climate Zone 3 Dry/Hot Climate	
Mexico	
All Central American countries	
All Caribbean countries and territories	
United States	South America
Hawaii	Colombia
Southern Florida	Ecuador
	Northern Peru
	Northern Bolivia
	Paraguay
	Venezuela
	Guyana
	Suriname
	French Guiana
	Brazil

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

WIDTH CHART			LENGTH CHART		
Width Description	Standard Metric Width	Actual US Converted Width	Length Description	Standard Metric Length	Actual US Converted Length
15"	378 mm	14.882"	10 yard	9.14 meters	30 feet
24"	610 mm	24.016"	25 yard	23 meters	75 feet
30"	756 mm	29.767"	50 yard	46 meters	150 feet
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"			

ORAFOL products are German Engineered and proudly produced in the United States at our premier manufacturing facility in Ellabell, GA.

The facility is one of the most modern of its kind, in the Americas, and ensures both high quality product and rapid turn around time for delivery.



Located just outside of Savannah, GA ORAFOL Americas, Inc. distribution network spans the United States, Canada, Latin America and the Caribbean.





Digital Inkjet Media Selection Guide



Front cover image courtesy of SignCraft, Indianapolis, IN. ORAJET® 3169RA with ORAGUARD® 210.

Back cover image ORAJET® 3971RA+PS with ORAGUARD® 279G.

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