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Description

Fleet engineer grade reflective marking film and digital print media featuring superior glass bead reflective performance for emergency and commercial vehicle graphics. ORALITE® 5600RA is very bright and crisp from dusk to dawn, and also during poor weather conditions. The retro-reflective properties act as a safety mechanism when headlights and streetlights bounce off the film, alerting oncoming traffic and pedestrians to be aware. Experience bubble-free applications with ORAFOL's RapidAir® adhesive technology. ORALITE® 5600RA offers a lower initial tack than ORALITE® 5650RA, making it the perfect solution for larger-format wrap applications to box trucks and trailers with rivets, or print & cut graphic applications.

Release Liner

89# PE-coated silicone paper featuring advanced air release RapidAir® technology to facilitate quicker, easier applications.

Adhesive

Low initial tack. Clear, solvent-based, low initial tack repositionable permanent adhesive (removable with heat)

Application Temperature

Minimum application temperature: > +60°F

For best application experience: Apply graphics in a controlled environment between 65°F – 75°F. Ideal humidity between 50% - 60% humidity

Below 60°F: Material will feel rigid and may have weaker adhesion characteristics to the application surface. Introduce heat to the surface to improve initial tack and adhesion properties.

Above 75°F: Material will be more prone to over-stretching and the adhesive will feel more aggressive.

Applications

- Flat, or Moderate to Complex Curves long-term reflective graphic applications
 - Plotter Cut Reflective Graphics
 - Printed Reflective Graphics
- Automotive Commercial Fleet Graphic & Wrap Applications
- Box Truck & Trailer with Rivets Graphic & Wrap Applications
- Transit Graphic Applications
- Emergency Vehicle & Apparatus Graphic Applications
 - Striping
 - Lettering
 - o Badges
 - Maltese Cross
 - Star of Life
 - o Battenburg Pattern
 - o Etc.
- · Long-term reflective outdoor general signage
 - Parking lot Signage
 - Park and Recreational Signage

Application Method

Dry application only

Recommended Laminates

Standard: ORAGUARD[®] 290 (2 mil)
Standard: ORAGUARD[®] 290F (2 mil)
Standard: ORAGUARD[®] 293 (1 mil)
Upgrade: ORAGUARD[®] 279 (2 mil)

Printability/Ink Compatibility

Latex, Solvent, Eco-Solvent, UV Curable Thermal, UV-Gel, and Screen Printing. Click Here to view ORAFOL ICC Profiles.



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Processing and Handling

Specially developed for digitally printable vehicle graphics applications to produce reflective lettering, markings, and decorations.

Surfaces to which the material will be applied must be thoroughly cleaned from dust, grease, or any contamination which could affect the adhesion of the material. Freshly painted surfaces should be completely cured. The compatibility of selected surfaces should be tested by the user, prior to application of the material.

The ORALITE® 5600RA must be installed using a dry application method. Wet applications will alter the short and long-term performance of the material and will not be warranted. Wet applications may cause discoloration or black staining beneath the top layer of the film.

For other applications the user is fully responsible for evaluating the suitability of the product, and for any risks associated with that use.

ORALITE® 5600RA is compatible with many of today's OEM Latex, Solvent, Eco-Solvent, UV, UV-Gel, inks. Visit www.orafol.com and click on Support to locate downloadable Color Profiles. If protective over-laminate is required, utilize ORAGUARD 290, 290F, 293, 279 in order to provide increased UV protection.

It can also be screen printed with ORALITE® 5018 screen printing ink and protected with ORALITE® 5051 for additional UV protection. When using non-ORAFOL inks or printers, the application must be tested and approved by the user.

For best graphic removal results during colder months of the year, users should bring the vehicle indoors and acclimate it to approximately 65°F to 75°F. Next, utilize an artificial heat source such as a heat gun, propane torch, or mobile infrared station to soften the properties of the adhesive and film to allow for easier removal, with minimal to no adhesive residue left behind.

In the event adhesive residue remains on the vehicle surface after removal, a solvent-based adhesive remover may be required to completely remove any residual adhesive.

For additional questions or support, please contact an ORAFOL Product Technical Support Specialist at the number below.

Note:

All ORALITE® products are manufactured within an ISO 9001:2008 controlled manufacturing environment and batch traceability is possible on the basis of the roll number. The product code and batch number are printed on the back side of the release liner, label on plastic sleeve, and exterior box label.



Technical Data

Thickness* (without liner and adhesive)	5-mil*				
Temperature resistance	Adhered to aluminum, -58°F to 203°F				
Suitable Fire Extinguishing Media	Water spray mist, dry extinguishing agent, carbon dioxide, foam				
Fire Rating	Meets ASTM # 84-07 Class "A"				
Adhesive Power (FINAT TM-1, after 24h, average)	adhered to stainless steel: 3.4 lb./in adhered to acrylic coating: 2.7 lb./in				
Shelf life**	2 years				
Minimum life expectancy*** (based on accepted Application procedures on vertical surfaces)	7 years (unprinted)				
Minimum Application temperature	> +60°F				
Available lengths Available widths	150' (50-yard) and 30' (10-yard) 75' (25- yard) 24", 48", & 54"				
Recommended Laminates	ORAGUARD® Series 290, 290F, 293, & 279				
Recommended Application Tapes	ORATAPE® Series MT95, MT72, LT72				
Print Compatibility	Latex, Solvent, Eco-Solvent, UV-Gel, & Screen Printing: ORALITE® 5018 Screen Printing Ink is recommended				

* average

*** Located in Climate Zone 1



^{**} in original packaging, at 68°F and 50% relative humidity

Product Data

ORALITE® Series 5600RA meets the following ASTM D 4956 specifications for Type I, Class 3 retroreflective sheeting.

		Minimum coefficient of retroreflection (R) cd/fc/ft² (cd • lx⁻¹ • m⁻²)			
Observation Angle	0	0.2° 0.33°			
Entrance Angle	5°	30°	5°	30°	
white 010	100	40	80	35	

Color Specification Limits (Daytime)*

		1		2	3		4		Luminance
	Х	у	Х	у	Х	у	Х	у	Factor β
White (010)	0.305	0.315	0.335	0.345	0.325	0.355	0.295	0.325	≥ 0.35

IMPORTANT NOTICE

When using ORALITE® sheeting, please comply with relevant national specifications. ORAFOL recommends obtaining the current requirements from your local authority and ensure product conformance with such requirements. Please contact ORAFOL for further information.

All ORALITE® products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Published information concerning ORALITE® products is based upon research which the Company believes to be reliable, although, such information does not constitute a warranty. Because of the variety of uses of ORALITE® products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. All specifications are subject to change without prior notice.

Surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination which could affect the adhesion of the material. Freshly lacquered or painted surfaces should be allowed to dry for at least three weeks and to completely cure respectively. The compatibility of selected lacquers and paints should be tested by the user, prior to application of the material. The self-adhesive reflective material can only be used for dry application. The low tensile strength of the material can make the removability of the reflective film more difficult. Please review applicable application information published by ORAFOL.

No warranty is given for purposes other than those listed in the Technical Datasheet or which are not processed according to ORAFOL's processing and handling instructions. The durability of the signs will depend on a variety of factors, including but not limited to substrate selection and preparation, compliance with recommended application guidelines, geographic area, exposure conditions and maintenance of the product and finished sign. Sign failures caused by the substrate or improper surface preparations are not the responsibility of ORAFOL. Please refer to the full warranty document available at www.orafol.com for detailed information.

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. ORALITE® is a trademark of ORAFOL Europe GmbH.



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