Description

5-mil*, engineering grade, cast PVC, digitally printable reflective film. Available in 14 high impact colors.

Release Liner

89# PE-coated silicone paper

Adhesive

Clear, solvent-based, permanent adhesive (removable with heat)

Area of Use

Specially developed for digitally printable vehicle graphics applications to produce reflective lettering, markings and decorations. Series 5600 is suitable for use on cutting plotters. This film provides flexibility needed for applications over corrugations and rivets. Series 5600 is corrosion and solvent resistant. Meets ASTM D 4956 specifications for Type I, Class 1 retroreflective sheeting.

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	ASTM # 84-07 Class "A"			
Adhesive Power (FINAT TM-1, after 24h, average)	Adhered to stainless steel: 3.4 lb/in (tear of film)			
Tensile Strength (DIN EN ISO 527)	Along: Min.10 MPa			
	Across: Min. 10 MPa			
Elongation at Break (DIN EN ISO 527)	Along: Min. 100%			
	Across: Min. 100%			
Seawaterability (DIN 50021)	Adhered to aluminum, after 100h at 73°F, no variation			
Shelf life**	2 years			
Minimum life expectancy *** (based on accepted Application procedures on vertical surfaces)	7 years (unprinted)			
Minimum Application temperature	> +59°F			
Available lengths	150' (50-yard) and 30' (10-yard)			
Available widths	15" (punched), 24", 30", 48" (54", 60", white only)			
Recommended Laminates	ORAGUARD® Series 290, 290GF, 293,			
Recommended Application Tapes	ORATAPE [®] Series HT55, MT95, MT72			
Print Compatibility	Latex, Solvent, Eco-Solvent, Thermal & Screen Printing: ORALITE® 5018 Screen Printing Ink is recommended			

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



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

^{***} standard central European climate

ORALITE® 5600 **FLEET ENGINEERING GRADE REFLECTIVE FILM**

Product Data

ORALITE® Series 5600 meets the following ASTM D 4956 specifications for Type I, Class 1 retroreflective sheeting.

		Minimum coefficient of retroreflection (R) cd/fc/ft² (cd • lx⁻¹ • m⁻²)				Daytime Luminance Factor (Y%)		
Observation	Observation Angle		0.2° 0.5°					
Entrance A	ngle	-4°	30°	-4°	30°	Minimum	Maximum	
white	010	70	30	30	15	27		
yellow	020	50	22	25	13	15	45	
orange	035	25	7	13	4	10	30	
red	030	14	6	7.5	3	2.5	15	
green	060	9	3.5	4.5	2.2	3	12	
blue	050	4	1.7	2	0.8	1	10	
brown	080	1	0.3	0.3	0.2	1	9	

Color Specification Limits (Daytime)*

con opening (conjunct)									
		1		2		3		4	
		Х	у	х	у	Х	у	х	у
white	010	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329
yellow	020	0.498	0.412	0.557	0.442	0.479	0.520	0.438	0.472
orange	035	0.558	0.352	0.636	0.364	0.570	0.429	0.506	0.404
red	030	0.648	0.351	0.735	0.265	0.629	0.281	0.565	0.346
green	060	0.026	0.399	0.166	0.364	0.286	0.446	0.207	0.771
blue	050	0.140	0.035	0.244	0.210	0.190	0.255	0.065	0.216
brown	080	0.430	0.340	0.610	0.390	0.550	0.450	0.430	0.390

Color Specification Limits (Nighttime)*

		1		2		3		4	
		Х	У	Х	у	х	у	Х	у
white	010		no requirement						
yellow	020	0.513	0.487	0.500	0.470	0.545	0.425	0.572	0.425
orange	035	0.595	0.405	0.565	0.405	0.613	0.355	0.643	0.355
red	030	0.650	0.348	0.620	0.348	0.712	0.255	0.735	0.265
green	060	0.007	0.570	0.200	0.500	0.322	0.590	0.193	0.782
blue	050	0.033	0.370	0.180	0.370	0.230	0.240	0.091	0.133
brown	080	0.595	0.405	0.540	0.405	0.570	0.365	0.643	0.355

^{*}The four pairs of chromaticity coordinates determine the acceptable color in terms of the CIE 1931 Standard Colorimetric System measured with CIE Standard Illuminant D65.



ORAFOL Americas - GA 1100 Oracal Parkway Black Creek, GA 31308 Phone: 888.672.2251

ORAFOL Americas - CT 120 Darling Drive Avon, CT 06001 Phone: 800.654.7570

ORAFOL Canada 2831 Bristol Circle Oakville, Ontario L6H 6X5 Phone: 888.727.3374 techsupport-americas@orafol.com - www.orafolamericas.com

ORALITE® 5600 **FLEET ENGINEERING GRADE** REFLECTIVE FILM

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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.

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 selfadhesive 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.orafolamericas.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.

