ORALITE® 5650RA FLEET ENGINEERING GRADE REFLECTIVE FILM WITH RAPIDAIR® TECHNOLOGY

Description

5-mil*, cast PVC reflective film that combines excellent weather, solvent and corrosion resistance. Meets ASTM D 4956 specifications for Type I, Class 1 retroreflective sheeting. 11 colors available.

Release Liner

89# PE-coated silicone paper featuring advanced air release technology to facilitate quicker, easier application

Adhesive

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

Area of Use

Designed to make fleet applications easier by reducing the incidence of bubbles. Provides printability, conformability over corrugations and rivets and long-term removability (with heat).

Physical and Chemical Properties

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: 3.8 lb/in Adhered to acrylic coating: 3.9 lb/in
Tensile Strength (DIN EN ISO 527)	Along: Min.10 MPa Across: Min. 10 MPa
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 Available widths	150' (50-yard), 30' (10-yard) 15" (punched) 24", 30", 48", 54" (available in white only), 60" (available in white only)
Recommended Laminates	ORAGUARD [®] Series 290, 290GF, 293
Recommended Application Tapes	ORATAPE [®] Series HT55, MT95, MT72
Print Compatibility	Latex, Solvent, Eco-Solvent, UV Curable & 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.



^{*} average ** in original packaging, at 68°F and 50% relative humidity *** standard central European climate

Product Data

ORALITE® Series 5650RA meets the following ASTM D 4956 specifications for Type I, Class 1 retroreflective sheeting.

			num coefficier (R) cd/fc/ft² (d		ection	Daytime Luminance Factor (Y%)		
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 (Davtime)*

		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.



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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.

