## **ORALITE® Series 5600 Fleet Engineering Grade Reflective Film**

### **Description**

5-mil, cast PVC reflective film that is weather resistant and self-adhesive. Series 5600 is flexible with excellent corrosion and solvent resistance. Meets ASTM D 4956 specifications for Type I, Class 1 retroreflective sheeting. Available in 14 high impact colors.

Release Liner

89# PE-coated silicone paper

### Adhesive

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

#### **Applications**

Specially developed for vehicle graphics applications to produce reflective lettering, markings and decorations. Series 5600 is suitable for use on cutting plotters. Provides flexibility for application over corrugations and rivets.

## Technical Data

Thickness (without liner and adhesive)	5 mil					
Temperature Resistance	Adhered to aluminum, -58°F to +203°F, no variation					
Suitable fire extinguishing media Fire Rating	water spray mist, dry extinguishing agent, carbon dioxide, foam ASTM E 84-07 Class "A"					
Adhesive Power (FINAT TM-1, after 24 h, average)	Adhered to stainless steel: 3.4 lb/in (tear of film)					
Tensile Strength (DIN EN ISO 527)	Along: Min. 10 N/mm² Across: Min. 10 N/mm²					
Elongation at Break (DIN EN ISO 527)	Along: Min. 100% Across: Min. 100%					
Seawaterability (DIN 50 021)	Adhered to aluminum, after 100h/73°F, no variation					
Shelf Life (68°F/50% relative humidity)	2 years					
<b>Minimum Life Expectancy</b> (based on accepted application procedures on vertical surfaces)	7 years (unprinted)					
Minimum Application Temperature	59°F					
Available Lengths Available Widths (inches)	150' (50-yard), 30' (10-yard) 15 (punched), 24, 30, 48, (54, 60, white only)					
Recommended Laminates	ORAGUARD <sup>®</sup> Series 293					
Recommended Application Tapes	ORATAPE® HT55, MT95, MT72					
Print Compatibility (white only)	Latex, Solvent, Eco-Solvent, Thermal & Screen Printing					
ORACAL® recommends that printed film be allowed to dry f	or at least 24 hours at 70°F (48-72 preferred) before applying a laminate.					

#### Attention

Recycling Recommendation: Waste class similar to household waste, is to be recycled according to the local regulations.

Surfaces to which the material will be applied must be cleaned thoroughly of dust, grease or any contaminants. Freshly lacquered or painted surfaces should be allowed to stand for at least three weeks after complete curing. The compatibility of selected lacquers and paints should be tested by the end-user prior to use.

The statements in this information sheet are based upon our knowledge and practical experience. This data is intended only as a source of information and is given without any guarantee and does not constitute a warranty. Due to the wide variety of possible uses and applications, customers should independently determine the suitability of this material for their specific purpose, prior to use.



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### **Technical 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/ft <sup>2</sup> (cd • lx <sup>-1</sup> • m <sup>-2</sup> )				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 (Daytime)*									
		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.

