

## Description

3.5-mil, catadioptric glass bead retroreflective film.

## Release Liner

89# PE-coated silicone paper

## Adhesive

Clear, solvent polyacrylate, permanent adhesive

## Area of Use

ORALITE® 5200 Economy Grade was especially developed for the manufacture of short-term, outdoor, reflective information signs and advertising art that require just a minimum of retro-reflection. The smooth film surface has high scratch resistance and good printability

## Technical Data

<b>Thickness*</b> (without protective paper and adhesive)	3.5-mil
<b>Temperature resistance</b>	Adhered to aluminum, -58°F to +180°F
<b>Adhesive power*</b> (FINAT-TM 1 after 24h, stainless steel)	3.42 lb/in (film tear)
<b>Shelf life**</b>	2 years
<b>Application Temperature</b>	50° F
<b>Minimum Life Expectancy***</b> (based on accepted application procedures on vertical surfaces)	3 years (not printed)
<b>Available Lengths</b>	150' (50-yard)
<b>Available Widths</b> (in inches)	24, 48
<b>Recommended Laminates</b>	ORAGUARD® Series 290F, 293
<b>Print Compatibility</b>	Solvent, UV Curable, Latex, Screen Printing: ORALITE® 5018 Screen Printing Ink is recommended

\* average    \*\* in original packaging, at 68° C and 50% relative humidity

\*\*\* standard central European climate

## Product Data

### Minimum reflection data (DIN 67520 Part 1)

	Minimum coefficient of retroreflection (R) cd/ft <sup>2</sup> (cd · lx <sup>-1</sup> · m <sup>-2</sup> )			
	0.2°		0.33°	
Observation Angle				
Entrance Angle	5°	30°	5°	30°
white 010	50	20	36	15
yellow 020	32	14	22	9
orange 035	16	7.5	12	5
red 030	12	5	8	3
green 060	6	2.5	4.5	1.8
blue 050	3	1.3	1.9	0.6



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**Colors** (DIN 5033, Part 3, DIN 5036 Part 1, DIN 6171, new condition)

Table 2- Color Coordinates										
Colors	1		2		3		4		Luminance Factor $\beta$	
	x	y	x	y	x	y	x	y		
White 010	0.305	0.315	0.335	0.345	0.325	0.355	0.295	0.325	$\geq 0.35$	
Yellow 020	0.494	0.505	0.470	0.480	0.513	0.437	0.545	0.454	$\geq 0.27$	
Orange 035	0.610	0.390	0.535	0.375	0.506	0.404	0.570	0.429	$\geq 0.17$	
Red 030	0.735	0.265	0.700	0.250	0.610	0.340	0.660	0.340	$\geq 0.05$	
Green 060	0.110	0.415	0.170	0.415	0.170	0.500	0.110	0.500	$\geq 0.04$	
Blue 050	0.130	0.090	0.160	0.090	0.160	0.140	0.130	0.140	$\geq 0.01$	

\*The four pairs of chromaticity coordinates determine the acceptable color in terms of the CIE 1931 Standard Colorimetric System measured with CIE Standard Illuminant D<sub>65</sub>.

**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 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.orafolamericas.com](http://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.



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