



ORALITE® 5200

Economy Grade



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Description

ORALITE® 5200 Economy Grade are weatherproof, self-adhesive retroreflective films with an excellent corrosion and solvent resistance. The retro reflective system of the ORALITE® 5200 Economy Grade consists of catadioptric glass beads, which are embedded, in a transparent layer of plastic material. The smooth surface has a high scratch resistance and a good printability. It conforms to BS EN12899-1:2007 (class RA1) for minimum coefficient of retroreflection and colour.

Front Material

Special cast PVC film.

Release Paper

PE-coated silicone paper, 145g/m².

Adhesive

Solvent polyacrylate, permanent.

Area of Use

ORALITE® 5200 Economy Grade was especially developed for the manufacture of information signs as well as for reflective advertising art, which are intended for a short-term outdoor use and which require just a minimum of retro-reflection. The smooth surface shows a high scratch resistance and impact strength, and a very good printability. The ORALITE® 5200 Economy Grade has an adhesive with an excellent adhesion on metallic surfaces as aluminium and zinc coated steel plate.

ORALITE® 5200 can be screen printed with ORALITE® 5018 Screen Printing Ink or inkjet printed with most solvent based inks, UV- or Latex inks. Please refer to the chosen ink manufacturer's instructions to determine if an application laminate is required. If required, it is recommended that the material is laminated with ORAGUARD® 290F or ORAGUARD® 293F in order to provide increased UV protection. When using non-ORAFOL inks or printers, the application must be tested and approved by the customer.

When using the ORALITE® 5200 Economy Grade the particular national specifications have to be complied with.

Product Data

Table 1 – Specific coefficient of retroreflection R' in cd/lx/m²

Observation angle	0.2°			0.33°			2°		
	5°	30°	40°	5°	30°	40°	5°	30°	40°
White (10)	70	30	10	50	24	9	5	2.5	1.5
Yellow (20)	50	22	7	35	16	6	3	1.5	1
Orange (35)	25	10	2,2	20	8	2.2	1.2	0.5	-
Red (30)	14.5	6	2	10	4	1.8	1	0,5	0.5
Blue (50)	4	1.7	0,5	2	1	-	-	-	-
Green (60)	9	3,5	1,5	7	3	1.2	0.5	0,3	0.2

Daytime colour specification limits for new sheeting

Table 3 – Chromaticity coordinates (BS EN 12899-1:2007)

Colours	1		2		3		4		Luminance Factor β
	x	y	x	y	x	y	x	y	
White	0.305	0.315	0.335	0.345	0.325	0.355	0.295	0.325	> 0.35
Yellow	0.494	0.505	0.470	0.480	0.493	0.457	0.522	0.477	> 0.27
Orange	0.610	0.390	0.535	0.375	0.506	0.404	0.570	0.429	> 0.17
Red	0.735	0.265	0.700	0.250	0.610	0.340	0.660	0.340	\geq 0.05
Blue	0.130	0.086	0.160	0.086	0.160	0.120	0.130	0.120	\geq 0.01
Green	0.110	0.415	0.150	0.415	0.150	0.455	0.110	0.455	\geq 0.04

Physical and Chemical Properties

Thickness* (without protective paper)	180 micron
Temperature resistance**	Adhered to aluminium, -50° C to +82° C
Adhesive power* (FINAT-TM1 after 24h, stainless steel)	15 N/25 mm
Shelf life**	2 years
Application Temperature	> +10° C
Service life by specialist application*** under vertical outdoor exposure	3 years

* average

** in original packaging, at 20° C and 50% relative humidity

***standard central European climate

Note

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 surfaces should be dried and completely cured. The compatibility of selected lacquers should be tested by the user, prior to application of the material. The self-adhesive reflective material can only be used for dry application. Further, the application information published by ORAFOL is to be considered. The batch traceability according to ISO 9001 is possible on the basis of the roll number.

IMPORTANT NOTICE

When using ORALITE® sheeting the relevant national specifications have to be complied with. ORAFOL recommends you obtain 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. 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.



Tennants UK Ltd.

Duke Street, New Basford, Nottingham. NG7 7JN

☎ 0115 973 8080 ✉ sales@tennantsuk.com 🌐 www.tennantsuk.com

🐦 @TennantsUK 📘 TennantsUKLtd

Company Registration No. 924063 Vat No. 116 6442 81

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