ORALITE®

Technical Datasheet

5200 ECONOMY GRADE

2012/14

Description

ORALITE® - Reflective films Series 5200 ECONOMY GRADE are weatherproof, self-adhesive retroreflective films with an excellent corrosion and solvent resistance.
The retro reflective system of the ORALITE® - Reflective films Series 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.

Top Film

Special cast PVC film

Cover liner

PE-coated silicone paper, 145g/m²
As the product and batch number are applied to the silicone-coated paper, all production parameters and raw materials can be completely traced back.

Adhesive

Solvent Polyacrylate, permanent

Application

ORALITE® - Reflective films Series 5200 ECONOMY GRADE were 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.
They are suitable both for digital printing with solvent based inks and for use on cutting plotters.
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 aluminum and zinc coated steel plate.
When using the ORALITE® - Reflective films Series 5200 ECONOMY GRADE the particular national specifications have to be complied with.

Print method

Inkjet printing with solvent based inks, UV- or latex inks.
The use of ORALITE® - Screen printing inks series 5018 is recommended.
A transparent coating is not necessary.

Technical Data

Minimum reflection data (DIN 67520 Part 1)
Specific coefficient of Retroreflection R' in cd / lx pro m²

Observation angle		0,2°		0,33°	
Entrance angle		5°	30°	5°	30°
White	010	50	22	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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Colours (DIN 5033, Part 3, DIN 5036, Part1, DIN 6171, new condition)

		Colour coordinates								Luminance ß
		1		2		3		4		
		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	>=0,35
Yellow	020	0,494	0,505	0,47	0,48	0,513	0,437	0,545	0,454	>=0,27
Orange	035	0,61	0,39	0,535	0,375	0,506	0,404	0,57	0,429	>=0,17
Red	030	0,735	0,265	0,7	0,25	0,61	0,34	0,66	0,34	>=0,05
Green	060	0,11	0,415	0,17	0,415	0,17	0,5	0,11	0,5	>=0,04
Blue	050	0,13	0,09	0,16	0,09	0,16	0,14	0,13	0,14	>=0,01

Thickness* (without protective paper & adhesive)	0,080 mm
Temperature resistance***	Adhered to aluminium, -50°C to +82°C
Adhesive strength* (FINAT TM 1, after 24h, stainless steel)	15N/25 mm (Film tear)
Shelf life**	2 years
Application temperature	> +10°C
Durability by specialist application Under vertical outdoor exposure (standard Central Europe Climate)	3 years (not printed)

*average ** in original packaging, at 20°C and 50% relative humidity *** normal climate of Central Europe

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. Furthermore 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.

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