

5500 Commercial Grade

Fișă tehnică

DESCRIEREA PRODUSULUI:

Folie reflectorizantă cu agrement tehnic comercial grade, având rezistență mare la intemperii și un foarte bun comportament la coroziune și la contactul cu agenți chimici. Folia conține bile reflectorizante din sticlă înglobate într-un strat de plastic, iar adezivul are aderență inițială foarte mare.

Fața vizibilă este netedă și prezintă o rezistență mare la zgârieturi și lovituri. Folia este conformă cu standardele internaționale EN 12899-1 (Europa), DIN 67520 și DIN 6171 (Germania), BS 873: Part 6 (Marea Britanie), NFP 98-520 (Franța), SN 640878 (Elveția), ASTM D 4956 (SUA), JIS Z 9117 (Japonia).

Folia se poate imprima serigrafic cu seria de cerneluri 5010. Coeficientul de reflexie ridicat asigură o bună vizibilitate chiar și în cele mai slabe condiții de luminozitate sau în condiții meteorologice dificile. Acest tip de folie poate fi foarte ușor decupată pe cutter-plotter. Este disponibilă în 8 culori: alb, galben, portocaliu, roșu, verde, albastru, negru și maro.

CARACTERISTICI:

Grosime: 110 microni

Tip adeziv: poliadiclic permanent, pe bază de solvent

Durabilitate: până la 5 ani

Dimensiuni rolă: Lățime 1220 mm, Lungime 50 m.

APLICAȚII:

Se folosește pentru aplicații grafice pe diverse suporturi, pe plăcuțe indicatoare, dar și pentru marcaje de avertizare sau semne de circulație. Flexibilitatea foliei o recomandă pentru o gamă variată de aplicații. Datorită impermeabilității mari a foliei nu este recomandată lipirea cu apă.

CARACTERISTICI MATERIAL:	Valori / U.M.	Metoda test
Grosime fără adeziv și suport:	110 microni	
Greutate suport hârtie:	145 gr/m ²	
Temperatura de utilizare (pe suport de aluminiu)	-56°C ... +82°C	
Aderență adeziv (după 24h, suport oțel inoxidabil)	15N/25 mm	FINAT TM 1
Rezistență de rupere la tracțiune	în lungime: min 10 Mpa transversal : min 10 Mpa	DIN EN ISO 527
Alungire la rupere	min. 20% min. 20%	DIN EN ISO 527
Temperatura minimă de aplicare	> +15 °C	
Durata de depozitare *	2 ani	
Durabilitatea aplicației **	5 ani	

* în cutia originală, la 20 °C și umiditatea aerului de 50%

**expunere la exterior pe verticală, climat normal

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Description

ORALITE® - Reflective films Series 5500 ENGINEER GRADE are weatherproof, self-adhesive retroreflective films with an excellent corrosion and solvent resistance.

The retroreflective system of the ORALITE® - Reflective films Series 5500 ENGINEER GRADE consists of catadioptric glass beads which are embedded in a transparent layer of plastic material (class RA1, design A, formerly Type I).

The smooth surface shows a high scratch resistance and impact strength, and a very good printability.

The reflective data and colours at daylight comply with the international specifications for reflective materials of this class, such as EN 12899-1 (Europe), DIN 67520 and DIN 6171 (Germany), BS 873: Part 6 (Great Britain), NFP 98-520 (France), SN 640878 (Switzerland), ASTM D 4956 (US), JIS Z 9117 (Japan).

Front material

Alkyd resin

Release paper

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

Area of use

ORALITE® - Reflective films Series 5500 ENGINEER GRADE were especially developed for the manufacture of traffic control and guidance signs, warning signs and information signs as well as for reflective lettering, numbers and symbols, which are intended for a long-term outdoor use. The ORALITE® 5500 ENGINEER GRADE has an adhesive with an excellent adhesion on metallic surfaces as aluminium and zinc coated steel plate.

When using the ORALITE® - Reflective films Series 5500 ENGINEER GRADE, the particular national specifications have to be complied with.

Printing method

The use of ORALITE® - Screen printing inks series 5010 and 5018 is recommended.

A transparent coating is not necessary.

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Technical data

Minimum reflection data (DIN 67520, Part 1 and Part 2, state as manufactured)

Observation angle Entrance angle		Specific coefficient of retroreflection R' in cd / lx per m²								
		0,2°			0,33°			2°		
		5°	30°	40°	5°	30°	40°	5°	30°	40°
white	010	80	30	10	60	24	9	5	2,5	1,5
yellow	020	50	22	7	35	16	6	3	1,5	1
orange	035	25	10	2,2	20	8	2,2	1,2	0,5	
red	030	14,5	6	2	10	4	1,8	1	0,5	0,5
green	060	9	3,5	1,5	7	3	1,2	0,5	0,3	0,2
blue	050	4	1,7	0,5	2	1				
brown	080	1	0,3		0,6	0,2				
black	070	25	10		20	8				

Colours (DIN 5033 Part 3, DIN 5036 Part 1, DIN 6171, state as manufactured)

		Colour coordinates								Luminance factor β
		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
brown	080	0,455	0,397	0,523	0,429	0,479	0,373	0,558	0,394	0,03<=β<=0,09
black	070	Black is the colour at daylight. When being illuminated in darkness, it appears silver to silver-grey.								

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Thickness* (without protective paper and adhesive)	110 micron
Temperature resistance	adhered to aluminium, -56°C to +82°C
Salt-water resistance (DIN 50021)	adhered to aluminium, after 100h/23°C no variation
Resistance to solvents and chemicals	with expert application resistant to most oils, grease, fuels, aliphatic solvents, weak acids, salts and alkalis
Resistance to cleaning agents	adhered to aluminium, 8h in washcalics (0,5% household-cleaning agents) at room temperature and 65°C, no variation
Adhesive power* (FINAT TM 1, after 24h, stainless steel)	15 N/25mm (film tear)
Shelf life**	2 years
Minimum application temperature	> +10°C
Service life by specialist application under vertical outdoor exposure (standard central European climate)	7 years (not printed)

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

Attention:

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. Furthermore the application information published by ORAFOL is to be considered.

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