

## Descriere

Folie reflectorizantă cu agrement tehnic engineer grade, având rezistență mare la intemperii și un foarte bun comportament la coroziune sau la contactul cu agenții chimici. Folia este alcătuită din bile reflectorizante din sticlă, înglobate într-un strat transparent de plastic, iar adezivul are aderența inițială foarte mare. Fața vizibilă este netedă și prezintă un grad înalt de rezistență la zgârieturi și lovituri, precum și o foarte bună imprimabilitate. Folia se poate imprima serigrafic cu seria de cerneluri 5010. Coeficienții de reflexie ridicați 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, maro și negru. Culoarea neagră apare argintie sau gri-argintie pe timp de noapte.

## Caracteristici

Grosime: 150 microni

Tip adeziv: poliacrilic permanent, pe bază de solvent

Durabilitate: până la 7 ani

Dimensiuni rolă

Lățimi: 1220 mm,  
Lungime: 50 m.



## Aplicații

Este proiectată pentru realizarea de reclame atât de interior cât și de exterior, pentru o perioadă de timp scurtă până la medie

CARACTERISTICI MATERIAL		Valori/UM	
GROSIME		150μ	
GREUTATE		155 g/m <sup>2</sup>	
TEMPERATURA DE UTILIZARE (pe suport aluminiu)		-56°C - +82°C	
ADERENȚĂ ADEZIV (după 24h, suport oțel inoxidabil)		15N/25mm	FINAT TM 1
REZISTENȚĂ DE RUPERE LA TRACȚIUNE	în lungime	min 10 Mpa	DIN EN ISO 527
	transversal	min 10 Mpa	
ALUNGIRE LA RUPERE	în lungime	min 20%	DIN EN ISO 527
	transversal	min 20%	
TEMPERATURA MINIMA DE APLICARE		> +15°C	
DURATA DE DEPOZITARE*		2 ani	
DURABILITATEA APLICAȚIEI**		7 ani	

\* ÎN CUTIA ORIGINALĂ, LA 20°C ȘI UMIDITATEA AERULUI DE 50%

\*\* EXPUNERE LA EXTERIOR PE VERTICALĂ, CLIMAT NORMAL

### Description

ORALITE® - Reflective films Series 5700 ENGINEER GRADE are weatherproof, self-adhesive retroreflective films with an excellent corrosion and solvent resistance.

The retroreflective system of the ORALITE® - Reflective films Series 5700 ENGINEER GRADE consists of catadioptric glass beads which are embedded in a transparent layer of plastic material. 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 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 5700 ENGINEER GRADE

were especially developed for the manufacture of traffic control and guidance signs, warning and information signs, and for reflective lettering, numbers and symbols, which are intended for long-term outdoor use (7 years).

When using the ORALITE® - Reflective films Series 5700 ENGINEER GRADE, the particular national specifications have to be complied with.

### Printing method

The use of ORALITE® - Screen printing inks Series 5010 is recommended.

A transparent coating is not necessary.

### Technical Data

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

The data indicated in brackets represent the highest minimum reflective data resulting from the international specifications for reflective materials of this class.

Observation angle Entrance angle		Specific coefficient of retroreflection R' in cd / lx per m²							
		0,2°				0,33°			
		5°		30°		5°		30°	
white	010	100	(80)	40	(34)	80	(60)	35	(29)
yellow	020	60	(50)	26	(22)	45	(35)	20	(16)
orange	035	30	(25)	12	(10)	25	(20)	10	(8)
red	030	22	(14,5)	9	(6)	17	(10)	6,5	(4)
green	060	13	(9)	5	(3,5)	11	(7)	5	(3)
blue	050	6	(5)	2,4	(2)	4	(3)	1,3	(1)
brown	080	5	(1)	2	(0,3)	3	(0,7)	1	(0,2)

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 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.



**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

**Thickness\*** (without protective paper and adhesive) 150 micron

**Temperature resistance** adhered to aluminium, -56°C to +82°C

**Seawater 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 washalcalics (0,5% household-cleaning agents) at room temperature and 65°C, no variation

**Adhesive power\*** 15 N/25mm (film tear)

(FINAT TM 1, after 24h, stainless steel)

**Tensile strength** (DIN EN ISO 527)

along 10 MPa min.

across 10 MPa min.

**Elongation at break** (DIN EN ISO 527)

along 20% min.

across 20% min.

**Shelf life\*\*** 2 years

**Application temperature**  $> +15^\circ\text{C}$

**Service life by specialist application** 7 years (not printed)

under vertical outdoor exposure (standard central European climate)

\* 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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