Description

ORALITE® retroreflective films series 5840 HIGH INTENSITY CONSTRUCTION GRADE are highly reflective, weatherproof, self-adhesive films with excellent corrosion and solvent resistance. The smooth surface of ORALITE® reflective films series 5840 HIGH INTENSITY CONSTRUCTION GRADE allows a very good printability. The retroreflective system of the ORALITE® reflective films series 5840 HIGH INTENSITY CONSTRUCTION GRADE consists of encapsulated catadioptric glass beads (correspond to class RA 2, design B). The reflective data and colors at daylight comply with the international specifications of this class, state as manufactured, such as EN 12899-1 (European Regulation), 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

PET film

Adhesive

Solvent polyacrylate, permanent

Release paper

Polypropylene film, silicone coated one side, 0,075 mm

As the product and batch number are applied to the silicone-coated liner, all production parameters and raw materials can be completely traced back.

Area of use

ORALITE® reflective films series 5840 HIGH INTENSITY CONSTRUCTION GRADE were especially developed for the manufacture of temporary traffic control and construction area signs, warning and information signs, which are intended for short-term outdoor use. The special structure of the cells allows the identification of the film manufacturer.

When using the ORALITE® reflective films series 5840 HIGH INTENSITY CONSTRUCTION GRADE, the particular national specifications have to be complied with.

Printing method

The use of ORALITE® - Screen printing ink is recommended. A transparent coating is not necessary.

Laminating films

To produce color laminates the use of ORALITE® 5041 Transparent Film is recommended.

Technical Data

Minimum reflection data

Specific coefficient of retroreflection R' in cd / lx per m² 0,2° 0,33° 20 Observation angle 5° 30° 40° 5° 5° Entrance angle 30° 40° 30° 40° 010 250 150 110 100 95 4 1,4 white 180 2,4 020 170 100 70 67 3 1.5 vellow 122 64 1 29 40 1.5 0.7 orange 035 100 60 62 22 0.8

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

ORALITE® 5840 HIGH INTENSITY CONSTRUCTION GRADE

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

Page 2 of 2

			Colour coordinates								
		1		2		3		4		Luminance	
		X	у	X	у	X	У	X	y	factor ß	
white	010	0,305	0,315	0,335	0,345	0,325	0,355	0,295	0,325	>=0,27	
yellow	020	0,494	0,505	0,47	0,48	0,513	0,437	0,545	0,454	>=0,16	
orange	035	0,61	0,39	0,535	0,375	0,506	0,404	0,57	0,429	>=0,14	
Thickness*	(without pro	otective pa	per and a	adhesive)	250 mi	cron					
Temperature resistance					adhere	adhered to aluminium, -56°C to +82°C (-69°F to 180°F)					
Salt-water resistance (DIN 50021)					adhered to aluminium, after 100h at 23°C (74°F) 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	> 15 N/25m (film tear)					

2 years > +15°C

4 years (not printed)

Attention:

Shelf life**

Application temperature

central European climate)

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

Service life by specialist application under vertical outdoor exposure (standard

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

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