Description

ORALITE® 5430 Construction Grade films are weatherproof, self-adhesive retroreflective films with an excellent corrosion and solvent resistance. The retroreflective system of the ORALITE® 5430 Construction Grade consists of catadioptric glass beads which are embedded in a transparent layer of plastic material (classification RA1, design A, former Type I). The smooth surface has a high scratch resistance and a good printability. The minimum reflection data corresponds to EN 12899-1. The daylight colours correspond to the international norms for reflective materials of this class.

Front Material

Special cast PVC film, with aggressive tack.

Release Paper

PE-coated silicone paper, 145 g/m².

As the product and batch numbers 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® 5430 Construction Grade were especially developed for the manufacture of traffic control and guidance signs which are made of polyolefinic material, e.g. road works signs, which are intended for a short-term outdoor use. The material has an identification watermark.

The material is suitable both for digital printing with solvent based inks and for use on cutting plotters and provide good adaptability also to uneven surfaces. When using the ORALITE® 5430 Construction Grade, the particular national specifications have to be complied with.

Printing Method

Solvent-based ink jet printing

Screen printing: The use of ORALITE® 5018 Screen Printing Ink is recommended. A transparent coating is not necessary.

Recommended Laminates

ORAGUARD® 290F, ORAGUARD® 293F

Product Data

Minimum reflection data (DIN 67520, Part 1)

Table 1 - Specific coefficient of retroreflection R' in cd/lx/m ²										
Observation angle		0.2°			0.33°			2°		
Entrance angle		5°	30°	40°	5°	30°	40°	5°	30°	40°
white	(010)	70	30	10	50	24	9	5	2.5	1.5
yellow	(020)	50	22	7	35	16	6	3	1.5	1



ORALITE® 5430 Construction Grade

Physical and Chemical Properties

Thickness*(without protective paper and adhesive)	90 micron				
Temperature resistance**	adhered to aluminium, -40° C to +82° C				
Adhesive power* (FINAT-TMI after 24h, stainless steel)	15 N/25 mm (film tear)				
Shelf life**	2 years				
Application Temperature	> +10° C				
Service life by specialist application	4 years (not printed)				
under vertical outdoor exposure (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 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 self-adhesive reflective material can only be used for dry application. Furthermore the application information for both ORALITE® Reflective Films and Digital Printing Materials published by ORAFOL are to be considered.

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.

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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.

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