

Description

The weatherproof, self-adhesive, retroreflective ORALITE® reflective films series 5600E FLEET MARKING GRADE boast high flexibility combined with excellent corrosion and solvent resistance.

The retroreflective system of the ORALITE® reflective films series 5600E FLEET MARKING GRADE consists of catadioptric glass beads which are embedded in a transparent layer of plastic material (design A, formerly Type I).

The ORALITE® reflective films series 5600 E FLEET MARKING GRADE comply with ECE Regulation No. 104 for material class E. The reflective material displays an approval (water mark) applied every 100mm. The approval mark shows the material class (E), the ECE regulation number (104) and the approval number (002246).

Front material

Special cast PVC film

Release paper

PE coat applied to silicone-coated cardboard on either side, 145 g/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, removable by heat

Area of use:

ORALITE® reflective films series 5600 FLEET ENGINEER GRADE were especially developed for high quality car wrappings to produce lettering, markings and decorations which may be applied within contour markings in accordance with ECE 104. They are suitable for use on cutting plotters and provide good adaptability including to corrugations and rivets.

Printing method

Inkjet printing with solvent based inks, UV- or Latex inks;

Screen printing

Recommended laminating films

ORAGUARD® 290F, ORAGUARD® 293F

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.



Technical Data

Maximum values for the coefficient of retroreflection (according to ECE 104, material class E)

	Specific coefficient of retroreflection R^s in $\text{cd}\cdot\text{lx}^{-1}\cdot\text{m}^{-2}$			
Observation angle (°)	0,33			
Lighting angle (°)	5	30	40	60
every colour	50	21,66	12,33	1,66

Colours

ORALITE\ reflective films series 5600 FLEET ENGINEER GRADE are available in 15 different colours

5600E – 010 white

5600E – 020 yellow

5600E – 030 red

5600E – 035 orange

5600E – 040 violet

5600E – 050 blue

5600E – 053 light blue

5600E – 054 turquoise

5600E – 060 green

5600E – 070 black (When being illuminated in darkness, it appears silver to silver-grey.)

5600E - 080 brown

5600E – 084 azure

5600E – 091 gold

5600E – 213 lemon

5600E – 364 ruby

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.



Thickness* (without protective paper and adhesive)	90 to 140 micron
Temperature resistance***	adhered to aluminium, -50°C to +95°C
Adhesive power* (FINAT-TM1 after 72h)	adhered to stainless steel: 17.0 N/25mm adhered to acrylic coating: 17.5 N/25mm
Tensile strength (DIN 53455)	along: min 10 N/mm ² across: min 10 N/mm ²
Elongation at break (DIN 53455)	along: min 100% across: min 100%
Shelf life**	2 years
Application temperature	> +15°C
Service life by specialist application under vertical outdoor exposure (standard central European climate)	7 years

* average ** in original packaging, at 20°C and 50% relative humidity *** 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 completely cured. 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 published by ORAFOL is to be considered. The batch traceability according to ISO 9001 is possible on the basis of the roll number.

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.



ORAFOL Europe GmbH – Orafolstraße 2 – D 16515 Oranienburg
 Phone: +49(0)3301/8640 – Telefax: +49(0)3301/864100
 E-mail: verkauf@orafol.de – Internet: <http://www.orafol.com>