ORALITE ®

5600 FLEET ENGINEER GRADE

Description:
The weatherproof, self-adhesive, retro-reflective ORALITE® reflective films series 5600 FLEET ENGINEER GRADE boast high flexibility combined with excellent corrosion and solvent resistance.
The retro-reflective system of the ORALITE® reflective films series 5600 FLEET ENGINEER GRADE consists of catadioptric glass beads which are embedded in a transparent layer of plastic material.

Surface:
Special cast PVC film

Covering material:
PE coat applied to silicone-coated cardboard on either side, 145 g/m².
As the article and reel numbers are applied to the silicone-coated cardboard, it is possible to completely trace back all production parameters and raw materials.

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. They are suitable for use on cutting plotters and provide good adaptability including to corrugations and rivets.

Printing methods
Solvent-based ink jet printing, screen printing

Recommended printer
See recommended printers www.orafol.de

Recommended laminating films
ORAGUARD® 290F, ORAGUARD® 293F

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Technical data

Typical values for the coefficient of retro-reflection (measured according to DIN 67520)

		Specific coefficient of reflex luminous intensity R‘ in $cd \cdot lx^{-1} \cdot m^{-2}$			
Observation angle (°)		0.2		0.33	
Lighting angle (°)		5	30	5	30
5600 – 010	white	100	40	80	35
5600 – 020	yellow	60	25	45	20
5600 – 030	red	20	8	16	6
5600 – 035	orange	28	10	23	8
5600 – 040	violet	20	8	16	6
5600 – 050	blue	6	2	4	1
5600 – 053	light blue	45	16	35	12
5600 – 054	turquoise	33	12	24	8
5600 – 060	green	13	5	11	5
5600 – 070	black	25	10	20	8
5600 - 080	brown	5	2	3	1
5600 – 084	azure	9	4	7	2.5
5600 – 091	gold	70	27	50	22
5600 – 213	lemon	75	30	55	25
5600 – 364	ruby	16	6	11	4

Colours

ORALITE® reflective films series 5600 FLEET ENGINEER GRADE are available in 15 different colours (see table: typical values for the coefficient of retro-reflection).
ORALITE® 5600-070 displays a black colour at daylight. When being illuminated in darkness, it appears silver to silver-grey.

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Thickness* (without protective paper and adhesive agent)	110 micron to 140 micron
Temperature stability (applied to aluminium)	-50 °C to +95 °C
Adhesive power* (FINAT TM1 after 72h) stainless steel, acrylic coating	 17.0 N/25mm 17.5 N/25mm
Tensile strength (DIN 53455)	along: min 10 N/mm² across: min 10 N/mm²
Elongation at break (DIN 53455)	along: min 100% across: min 100%
Shelf life**	2 years
Application temperature	> 0°C
Service life by specialist application under vertical outdoor exposure (standard Central European climate)	7 years

* Average value ** in original packaging at 20°C and 50% relative humidity

Note

The **processing and handling instructions for reflective products and digital printing materials** contain further information to be observed in addition to this technical data sheet. When laminating films are to be used, it is important to carefully dry out the colours after printing in order not to compromise the subsequent application of a laminating film, if any. The receiving surface must be free from dust and fat. When applying a new coating, the receiving surface should have been dried out and cured completely for a minimum of three weeks. The coatings planned should be subjected to a compatibility test. The self-adhesive reflective material must be applied in a dry state only.

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