



INTERNATIONAL REFLECTIVE COMPANY Spa

SEDE LEGALE, STABILIMENTO E AMMINISTRAZIONE

Via Verdi, 57 – 41019 SOLIERA (MO) Italy

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<p><u>IRC Spa</u></p>	<p>PRODUCT BULLETIN</p> <p>EUROLUX® ENGINEERING GRADE DIGITAL PRINTING 7 YEARS</p>	<p>Rev. 00 del 14.10.05</p>
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General Information:

EUROLUX® ENGINEERING GRADE DIGITAL PRINTING 7 YEARS sheeting is made of retro reflective self adhesive material which is protected on the top by a transparent and/or coloured transparent coating .

The sheeting is used for high performance in **Digital Printing** as advertising sign, industrial sign or emblem applications and for those signs requiring an excellent retro reflective power, both in day and night light. EUROLUX® ENGINEERING DIGITAL PRINTING 7 YEARS grants a high resistance in terms of lifetime and against conditions of high humidity or sun light exposure.

Sheeting Identification Sign:

EUROLUX® ENGINEERING GRADE DIGITAL PRINTING 7 YEARS sheeting come with an indelible mark (commercial mark) identifying the manufacturer and the granted exposure minimum lifetime.

The indelibility of the marking has been proved in accordance to the indications fixed by the Norms of the product.

This marking maintains the same features far beyond the granted life of the product.

Available Colours:

EUROLUX® ENGINEERING GRADE DIGITAL PRINTING sheeting are available in the following colours:

White, yellow, red, orange, green, blue, brown.

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Adhesive Properties:

Performance	Average result
Chemical composition	Acrylic
Peel adhesion 20'	19 N/25mm
Peel adhesion 24 h'	28 N/25mm
Quick stick	17 N/25mm
Shear	> 15h

Photometric parameters:

EUROLUX[®] ENGINEERING GRADE DIGITAL PRINTING 7 YEARS sheeting, for all available colours, are inside the colorimetric range (x,y system) and luminance (Y) parameters fixed by the Norms regarding retro reflective sheetings Class 1 (UNI EN ISO 12899-7).

The minimum reflectiveness parameters are here below shown:

Colour	Minimum Reflectiveness 0,2°, -4° (cd/lux mq)	Minimum Reflectiveness 0,33°, 5° (cd/lux mq)
White	70	50
Yellow	50	35
Orange	25	20
Red	14,5	10
Green	9	7
Blue	4	2
Brown	1	0,6

Other Features:

Physical features of the FILM:



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Performance	Average result
Average Weight (with adhesive)	250 Gr/mq
Thickness	160 micron
Loading at 100%	93 kg/cmq
Break-even loading	125 Kg/cmq
Stratching	180 %

Specific resistances:

in accordance to the specifications of the Norms inherent to the product (UNI EN 12899-1), EUROLUX® ENGINEERING GRADE DIGITAL PRINTING 7 YEARS sheeting meet the following requirements:

Test	reference	Result
Adhesivity	Norm specification	Sheeting creaking
Flexibility	Norm specification	Good visual properties
Resistance to sea-fog	Norm specification	Reflectiveness > 50% original value
Impact resistance	Norm specification	Good visual properties
Resistance to Heat	70 ±3 °C per 24h	Reflectiveness > 50% original value
Resistance to Cold	-35±3 °C per 72h	Reflectiveness > 50% original value
Fuel	Norm specification	Good visual properties
Detergent	Norm specification	Good visual properties

Resistance to induced accelerated aging process:

EUROLUX® ENGINEERING GRADE DIGITAL PRINTING 7 YEARS, in all colours available, last for at least 7 years in outdoor environment.



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The exposure method used, complies with the Norm ASTM G26, which forecasts a permanent exposure to the light (minimum radiation power 0,35 watt/mq, 280nm borosilicate filter) and a periodic exposure to light and water (102 minutes under light followed by 18 minutes under light and water).

Type of Backing:

bipolithene monosilicone paper - weight 160 gr/mq

Available seizes:

Roll length: 50 linear meters

Available widths:

- 123 cm
- 61 cm
- Other roll widths on request

General information on the product usage:

EUROLUX® ENGINEERING GRADE DIGITAL PRINTING 7 YEARS sheeting have to be adjusted to their ideal usage conditions for at least 48 hours (Temperature 23 °C, Humidity level 50%).

• **Application advice :**

Aggressive solvents (aromatic or not volatile) could compromise the adhesion performance of the self-adhesive sheeting.

Before application of the sheeting, wash the bearing surface and dry it carefully.

The application has to be carried out in an environmental temperature not under 18° C (65° F).

Apply the reflecting sheetings, by means of rotary press or rolls (manual), particular care has to be taken in order to avoid air bubbles in between that could make the sign faulty once placed on site.

The pressure of the rotary press has to be adjusted in order to avoid the creation of foldings (which might depend on the natural stiffness of the product).

The right parameter set-up has to be duly achieved by the user after prior trials.

• **Printing procedure:**

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High Performance Printing on EUROLUX® ENGINEERING GRADE DIGITAL PRINTING 7 YEARS sheeting can be carried out through **Digital technique**.

Others excellent results have been achieved and proved by using EUROLUX® XFM inks .

The colorimetric values obtained through this particular technique are inside the range (x,y,Y system) fixed for Class 1 retro reflective sheetings (UNI EN 12899-1).

- **Storage:**

EUROLUX® ENGINEERING GRADE DIGITAL PRINTING 7 YEARS sheeting have to be used not later than 1 year from goods receipt. Rolls must be kept in their original box.

The sheetings already cut and/or applied on their panels have to be horizontally placed.

IRC Spa
Laboratori manager
Dr. Mucchi Davide

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