



Product Description ENG

Date 21.09.2011

Rev. 5

DESCRIPTION

Polyester film (PET) printed with rotogravure, used for the finishing of :

- Aluminum
- Steel
- Stainless steel
- Hot Galvanized Steel
- Cold Rolled Steel
- Electrogalvanised Steel

Available for internal and external use (UV-stabilized film)

A specific base coating is required.

SUPPORT

- Print width: 1250 mm (1820 mm upon request)
- Film thickness: 20 to 23 µm
- Base weight: 21-28 g/m²
- Core diameter: 75 to 150 mm
- Roll diameter: 200 to 500 mm
- Roll length max : 4000 m
- Weight : max 200 kg

PRINTING

In rotogravure using solvent based inks.

BRIGHTNESS

Matte (20 gloss) or High Gloss (>90 gloss)

APPLICATION SYSTEMS

It is possible to apply the product with calandring, and the optimum adhesion temperature can vary from 140°C to 190°C depending on the type of coil, type of base coating of the same.

To optimize the operating conditions we recommend running tests in production, considering the transfer process of the film and the support to enable.

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QUALITY AND R&D

Internal analysis and quality checks :

- Solvent, inks and printed film, are analyzed by:
 - FT-IR-ATR (Infrared Spectroscopy)
 - GC-FID / HS-GC (Gas chromatography)
- Artificial weathering (UV-stabilized film) in accordance with :
 - UNI EN ISO 4892-2 (Xenon test with solar filter)
 - UNI EN ISO 4892-3/2006 (QV-B @314 nm)

External quality checks for UV-stabilized film (outdoor use)

- ASTM 4141C (EMMAQUA/Q-Trac - natural sunlight concentrator) – 1 Year Test Complete NEW UPDATE
- ASTM –D 1014 (FLORIDA TEST) – 1 Year (2°Year in progress)
- ISO 7724/3 – 1984 (QV-A @ 340 nm); evaluation of
 - ISO 4628/2 (Blistering)
 - ISO 4628/3 (Rusting)
 - ISO 4628/2 (Cracking)
 - ISO 4628/5 (Flaking)
 - ISO 105 A02 (Change of colour)

Test conducted @ "Stazione Sperimentale per le Industrie degli Oli e dei Grassi" (SSOG).
The areas of responsibility of the SSOG are specified in:

- D.Lgs. 2 February 1919, n.637;
- D.Lgs. 29 October 1999, n.540;
- D.Lgs. 23 February 2001, n.71.

| | <i>Blistering</i> [ISO 4628/2] | <i>Rusting</i> [ISO 4628/3] | <i>Cracking</i> [ISO 4628/2] | <i>Flaking</i> [ISO 4628/5] |
|--|-----------------------------------|--------------------------------|---------------------------------|--------------------------------|
| Artificial weathering (Q-UVA @ 340 nm – 3000h) [UNI EN ISO 7724/3 – 1984] | Absent | Absent | Absent | Absent |
| Change of color [ISO 105 A02] after artificial weathering [ISO 7724/3 – 1984] | After 1000 h | | After 2000 h | |
| | 5/5 | | 4/5 | |

Texcover quality checks for indoor use (Independent laboratory accredited)

| | | | | |
|---|---|--|---------------|--------------|
| Coefficient of friction (static) | ASTM-D 1894 | 0.4 | | |
| Gloss | DIN 67530 | 180 Gloss @ 20° 100-120 Gloss @ 60°* * value depending on the design | | |
| Adhesion after drawing | ECCA T6 | No loss of adhesion | | |
| Resistance to bending | ECCA T7 | 0.5T | | |
| Resistance to rapid deformation | ASTM D 2794-93 | Not below 140 lb*inc | | |
| Humidity chamber | ASTM D 2247-94 | Unchanged after 1000 hours | | |
| Resistance to salt spray | ECCA T8 | Unchanged after 500 hours | | |
| Pencil hardness | UNI 10782:99 | H (Faber Castell) | | |
| Resistance to dry heat | UNI EN 12722:2009 (Min 1 - Max 5) | Unchanged until 85°C (185°F) | | |
| Artificial light fastness | ISO 105B-A02 / BS 1006A02_1978 <ul style="list-style-type: none"> • Temperature 55°C (131°F) • Lamp Xenon Arc • Cycle Irradiance Only • Reference International blue scale (Min 1 - Max 8) | ≥ 6* * value depending on the design | | |
| Stain resistance | UNI EN 12720:2009 (Min 1 - Max 5) <ul style="list-style-type: none"> • 5 No defect • 4 Slight glow barely visible • 3 Visible Defect • 2 Marked defect • 1 Heavy surface degradation Time of contact in according to UNI 10944:2001 | Product | Result | Value |
| | | Acetic acid (10%)* | PASS | 5 |
| | | Acetone | PASS | 5 |
| | | Ammonia (10%)* | PASS | 5 |
| | | Citric Acid (10%) | PASS | 4 |
| | | Soap | PASS | 5 |
| | | Coffee | PASS | 5 |
| | | Disinfectant** | PASS | 5 |
| | | Ethanol 48% | PASS | 5 |
| | | Butyl Acetate / Ethyl Acetate 1:1 | PASS | 5 |
| | | Olive Oil | PASS | 5 |
| | | Paraffin Oil | PASS | 5 |
| | | Sodium Carbonate (10%)* | PASS | 5 |
| | | Sodium Chloride (15%)* | PASS | 5 |
| Tea | PASS | 5 | | |

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| | | | | |
|--|---|-----------------|------|---|
| | * in water solution ** Chloramines T 2,5% in water | Distilled water | PASS | 5 |
| | | Red wine | PASS | 4 |
| | | Beer | PASS | 5 |

PACKAGING

Specific for this product.

STORAGE

Keep in dry and ventilated place, protect from heat and sunlight.

PRODUCT EXPIRY DATE

1 year in the above-mentioned conditions.

NOTICE AND ADVICE

Sublitex is not responsible for unusual applications or those who have not followed the operational specifications of storage provided.

State of Art

The above information, reflect our current "State of the Art", and are disclosed by us without commitment, however possible future changes and revisions according to the evolving technology and business are possible. We invite the buyer to the verification of the information given on the basis of its technology and engineering.

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