



Ref. ARGIPRINT 820 — Outdoor polyester label

Matt white top-coated polyester film PET White TC 50 / RC18 UV-acrylic permanent adhesive / HD70 glassine liner

DESCRIPTION

A product designed as a universal solution for durable labelling, with very good adhesion and good print resistance to chemicals, UV light, heat and moisture. Its universal character helps simplify the materials portfolio and reduce testing and evaluation.

QUICK SUMMARY

Facestock: Matt white top-coated polyester, 55 g/m²

Adhesive: RC18 strong permanent, UV-acrylic

Liner: Translucent white glassine HD70, 62 g/m²

Printing: Flexo, screen, offset and thermal transfer

Key points

- Service temperature: -40 to 200 °C
- Minimum labelling temperature: 5 °C
- BS 5609 section 2 for marine use
- UL 969 and CSA C22.2 No. 0.15 (file MH 26760)
- Shelf life: 24 months

KEY ADVANTAGES

- Very good adhesion and good print resistance to chemicals, UV light, heat and moisture.
- Universal solution for durable labelling.
- Wide service temperature range: -40 to 200 °C, with a minimum labelling temperature of 5 °C.
- Approvals: BS 5609 section 2, UL 969 and CSA C22.2 No. 0.15 (file MH 26760).

RECOMMENDED APPLICATIONS

- Durable labelling for the whole service life of the product.
- Applications exposed to chemicals, UV light, heat and moisture.
- Marine use under BS 5609 section 2, which tests the unprinted material.

PRINTABILITY

Suitable for flexo, screen and offset printing. Special inks designed for non-absorbent materials must be used. Thermal transfer printing is possible with selected wax, mixed and resin ribbons. Validate the ribbon for each printer and process.

MATERIAL STRUCTURE

LAYER	CODE	DESCRIPTION
Facestock	PET White TC 50	Matt white polyester film, top-coated for printing.
Adhesive	RC18	Strong permanent. Composition: UV-acrylic.
Liner	HD70	Translucent white glassine paper.



ADHESION TO SUBSTRATES AFTER 72 H

Test conditions: 23 °C and 50 % relative humidity. FTM 1 method, 180° peel at 300 mm/min, with 72 hours dwell. Waiting at least 24 hours — preferably 72 — after dispensing before testing is recommended.

ADHESION BY SUBSTRATE

SURFACE	UNITS	VALUE
Stainless steel	N/25 mm	21
ABS	N/25 mm	18
Polycarbonate	N/25 mm	25
Polypropylene	N/25 mm	18
High-density polyethylene	N/25 mm	12
Polyamide PA6	N/25 mm	16
Polyamide PA6 + GF30	N/25 mm	15
Polyester	N/25 mm	17
Lacquered panel	N/25 mm	15
Powder-coated panel	N/25 mm	11

PERMISSIBLE TEMPERATURES BY SUBSTRATE

SURFACE	MAX. T (°C)	MIN. T (°C)	INDOOR / OUTDOOR
Acrylic paint	100	-40	Yes / yes
Alkyd paint	150	-40	Yes / yes
Aluminium	200	-40	Yes / yes
Galvanised steel	200	-40	Yes / yes
Polyester paint	100	-40	Yes / yes
Stainless steel	200	-40	Yes / yes
Polycarbonate	100	-40	Yes / yes
Polyamide (nylon)	80	-40	Yes / yes
ABS	80	-40	Yes / yes
Polypropylene	80	-40	Yes / yes
Polystyrene	80	-40	Yes / yes

CHEMICAL RESISTANCE

According to the manufacturer, all the substrates in the table above allow occasional exposure to laundry detergents and to fuel oils No. 1 and No. 2. The immersion results are as follows.



RESULTS BY CHEMICAL

CHEMICAL	VISUAL APPEARANCE	EDGE PENETRATION (MM)
Brake fluid	No change	0
Engine oil	No change	0
Diesel	No change	0
Distilled water	No change	0
Dishwashing agent	No change	0
Bleach	No change	0

PHYSICAL PROPERTIES

PROPERTY	STANDARD	UNITS	VALUE	TOLERANCE
Facestock substance	DIN 53352	g/m ²	55	—
Facestock thickness	DIN 53370	μm	50	—
Opacity	ISO 2471	%	92	—
Gloss	ASTM D2457	%	13	—
Liner substance	ISO 536	g/m ²	62	—
Liner thickness	ISO 534	μm	54	—
Liner transparency	DIN 53147	%	48	—
Adhesive coat weight	—	g/m ²	25	—
Total thickness	—	μm	129	± 10 %

MECHANICAL PROPERTIES

PROPERTY	STANDARD	UNITS	VALUE
Tack	FTM 9	N/25 mm	20
90° peel	FTM 2	N/25 mm	15
180° peel on glass	FTM 1	N/25 mm	23
Tensile strength MD (liner)	ISO 1924	kN/m	7
Tensile strength CD (liner)	ISO 1924	kN/m	2.7



TEMPERATURES AND STORAGE

PROPERTY	UNITS	VALUE	STANDARD
Minimum labelling temperature	°C	5	—
Service temperature	°C	–40 to 200	—
Storage temperature	°C	20 to 25	FINAT
Storage relative humidity	%	40 to 50	FINAT
Shelf life from manufacture	months	24	—

CERTIFICATIONS AND COMPLIANCE

- BS 5609 section 2, for marine use: section 2 tests the unprinted material.
- UL recognised to UL 969 and CSA recognised to C22.2 No. 0.15. File MH 26760.

STORAGE AND SHELF LIFE

Twenty-four months from the date of manufacture, under the storage conditions defined by FINAT: 20 to 25 °C and 40–50 % relative humidity, in a dry, clean and well-ventilated area and in the original packaging. Avoid exposure to constant light and UV radiation, and reseal any remaining material tightly in its packaging. Prolonged storage at higher temperatures or humidity levels shortens the shelf life.

USAGE RECOMMENDATIONS

- Run printing, handling and die-cutting trials before production.
- Check the compatibility of the thermal transfer ribbon for each printer and process.
- Wait at least 24 hours — preferably 72 — after dispensing before running adhesion tests.
- Keep the material protected from light and UV radiation, and in its packaging, until it is used.
- Contact Lit-Off for formats and special slitting, and for support in ribbon selection.

IMPORTANT NOTES

- The values given are typical values based on the manufacturer's data, subject to change without notice, and are not intended for specification.
- Users should run their own trials, since handling and application can affect performance.

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