

MACprint® / MACscreen®

Product data : SOLID FOIL - PERMANENT



DESCRIPTION

Face stock :

Pure aluminium foil, ~ 40 µm, with vinylic based top coating for ink receptivity, dull silver finish.

Adhesive : Permanent high-performance, acrylic based.

Liner Mercury :

Bleached Kraft paper, ca. 160 g/m²
Two-side polyethylene coated, without breaklines and backprinting.
Backing with excellent dimensional stability.

Laminate : ca. 320 g/m²

PHYSICAL AND CHEMICAL CHARACTERISTICS

(TYPICAL VALUES)

ADHESIVE :

	TACK	ADHESION
PERMANENT : High performance adhesive. Excellent resistance to U.V. light, weather and ageing	●●	●●●

●●● : High ●● : Medium ● : Low

(TYPICAL VALUES)

Quick tack : 28 ± 3 N/25 mm FTM 9, on glass

Peel 20 min. : 30 ± 3 N/25 mm FTM 1, on glass

Peel 24 h : 33 ± 3 N/25 mm FTM 1, on glass

Resistance to shear : > 1000 h FTM 8, on glass

Dimens. stability (applied) : no shrinkage FTM 14, alu

Dimens. stability on the backing paper (unapplied) :
no shrinkage Measured after 72 h at 60° C

Temperature ranges :

Min. application temperature : + 10° C

Service temperature : - 20° C to + 150° C

Flammability : Self-extinguishing ISO 3795

Food contact : approval for indirect application on dry or moist, non-fatty food ISEGA/BgVV

Solvent resistance : No effect.

Applied to stainless steel, exposed to : oils, greases, aliphatic solvents, alcohols.

Petrol resistance :

If extended contact, edge-lifting will occur.
Repeated (each 10 min.) petrol spraying.

Chemical resistance : No effect.

Mild acids. Mild alkalis.

Shelf life : stored at 50 ± 10 % RH at 15 - 25° C.

2 years for as long as the material is being stored in its original packaging.

Durability : 2 years.

Middle European exposure conditions, vertical exposure. Exposure to severe humidity, ultra-violet light or conditions found in tropical, subtropical or desert regions will cause more rapid deterioration than under conditions existing in "normal" temperate climates.

PRINTING METHODS

The vinylic based topcoating allows printing by usual printing technologies including letterpress, offset and screen printing.

It is not recommended to use inks containing ketones or acetates (contact your ink supplier). For letterpress and offset printing, please contact your ink supplier for an appropriate ink choice.

APPLICATIONS AND USES

Indoor or outdoor applications where long life and heat resistance is required such as :

- Labelling of boilers, water heaters, central heating.
- Electrical appliances, instruction panels, nameplates.

GENERAL REMARK : factors affecting adhesion

Adhesion failure problems can be avoided by :

- *Where possible, always test the proposed construction under actual application and end-use conditions because a 100 % multi-purpose adhesive for all substrates does not exist.*
- *Being familiar with factors which adversely affect adhesion :*
- *Labels or stickers should not be applied onto dusty, dirty, oily or oxidized surfaces.*
- *Mould release agents on blow-moulded plastic surfaces inhibit adhesion.*
- *Adhesion failure may occur on substrates with low surface tension, such as polyethylene or polypropylene.*
- *Avoid the use of relatively rigid facestocks on highly curved or small diameter surfaces.*
- *Do not use pressure sensitive materials outside the recommended service temperature range, or do not apply below the minimum application temperature.*