

MACprint[®] / MACscreen[®]

Product data : ACETATE FILMS - PERMANENT



DESCRIPTION

Face stock :

Cast cellulose acetate film, ~ 40 µm, transparent, plasticized, gloss or matt finish.

Adhesive : Permanent high-performance, acrylic based.

Liner : Coated Kraft paper, ca. 140 g/m² :
Secury 13 (without breaklines)

Laminate : ca. 210 g/m²

PHYSICAL AND CHEMICAL CHARACTERISTICS

ADHESIVE :

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

●●● : High ●● : Medium ● : Low

(TYPICAL VALUES)

Quick tack : 15 ± 2 N/25 mm FTM 9, on glass

Peel 20 min. : 14 ± 2 N/25 mm FTM 1, on glass

Peel 24 h : 16 ± 2 N/25 mm FTM 1, on glass

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

Dimens. stability (applied) : max. 0,4 % FTM 14, alu

Dimens. stability on the backing paper (unapplied) :
max. 0,6 % Measured after 72 h at 60° C

Temperature ranges :

Min. application temperature : + 10° C

Service temperature : - 20° C to + 70° C

Toy labelling : in compliance with EN 71/3

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

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.

PRINTING METHODS

The material allows printing by usual printing technologies including letterpress, offset and screen printing.

We recommend to maintain an unprinted area of 3-4 mm on the edges of the printed decal to avoid edge lifting.

APPLICATIONS AND USES

Acetates are mainly used as pre-printed labels of various sizes for repeat drawing, lay-outs or designs, by architects, engineering departments or design studios, i.e. :

- title block letterings
- identification markings, logos
- sub or part drawings
- symbol markings.

PRODUCT BENEFITS

The acetate film is a modified natural product.

The cellulose content of the film enables it to be printed by any process, just like paper.

Therefore, there is no need for top-coating.

Acetates combine certain mechanical properties that make it especially suitable for use on the drawing board :

- a very thin film, adds almost no extra thickness to the drawing.
- a hard but brittle film, easy to cut.
- the matt film has excellent anti-reflective properties.
- under normal storage conditions, the film shows good resistance to ageing.
- good photocopying : applied to the original document, the acetate film does not cause darkening on the copy.
- Matt acetate may be written upon or typed.

REMARKS :

- as acetate is moisture sensitive, the films cannot be used outdoor.
- the films should not be exposed to heavy UV radiation (quartz rays).

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.*