MACscreen

mactac
A Bemis Company

POLYESTER FILMS TC 25, 36µm – PERMANENT

Technical Data Sheet

DESCRIPTION

Face stock :
Polyester films, top coated for ink receptivity.

- **MILMAR T.C. 25 µm** : Bright Clear
  Bright Silver
  Dull Silver
- **DUMAR T.C. 36 µm** : Bright Silver

Adhesive : Permanent high-performance, acrylic based.

Liner : Mercury.
Bleached Kraft paper, ca. 160 gr/sqm,
two-side polyethylene coated,
without breaklines and backprinting.
Backing with excellent dimensional stability.

Laminate : Milmar T.C. 25 µm : ca 220 gr/sqm
Dumar T.C. 36 µm : ca. 235 gr/sqm

PHYSICAL AND CHEMICAL CHARACTERISTICS

(TYPICAL VALUES)

N/25 mm on glass	**Quick tack** FTM9	**Peel 20 min.** FTM1	**Peel 24 h.** FTM 1
PET 25 µm	16	11	14
PET 36 µm	17	15	17

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 range :
Min. application temperature : +10°C
Service temperature range : - 20°C to +130°C

Burning behaviour : Flammable ISO 3795

Toy labelling : in compliance with EN 71/3

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 : No effect.
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 special topcoating allows printing solvent based by screen printing.
For letterpress and offset printing, please contact your ink supplier.
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

- Milmar clear : transparent labels, two-way signs and windows emblems, protective covering of documents.
- Silver films : luxury labels for household or industrial appliances, audio and video equipment, calculators, nameplates, toys, panels for decorative purposes, luxury packaging for perfumery or jewellery.

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. Rubber based adhesives stick better to low energy surfaces than acrylics.*
- *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.*