

Milmar Clear PERM PRO Mercury

Technical Data Sheet

DESCRIPTION

Face stock :

Polyester films, top coated for ink receptivity.
 - **MILMAR T.C. 25 µm** : Bright Clear

Adhesive : Permanent high-performance, solvent based.

Liner : Mercury.

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

Laminate : ca 220 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	15	10	11

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 : 0°C
 Service temperature range : - 30°C to +120°C

Burning behaviour : Flammable ISO 3795

Toy labelling : in compliance with EN 71/3

Solvent resistance :

Resistant to most oils, greases, aliphatic solvents, alcohols.

Petrol resistance : Resistant to short limited contacts.
 If extended contact, edge-lifting will occur.

Chemical resistance :

Resistant to most 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.

Expected durability :

The expected vertical outdoor durability of the unprocessed product in central Europe (Zone 1) is up to: 2 years.

This information is based on successful real life experience and artificial aging according to ISO 4892-2.

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.
- Milmar clear 25 MP655 is designed to pass without damages very high temperatures processes at max 180°C (ink and varnish drying ovens,e.g) for a short time period (up to 20 min)

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.*