

Milmar Clear PERM PRO Mercury

PRODUCT DESCRIPTION

Face Material: Clear coated PET film 25 micron

Adhesive: Permanent high-performance, solvent based

Liner: two-side PE coated kraft paper 160g/m²

TYPICAL USE

Milmar clear : transparent labels, two-way signs and windows emblems, protective covering of documents.

Milmar clear 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).

PROCESSING

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.

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.

SHELF LIFE

2 years, stored at 23°C / 50% RH

PHYSICAL PROPERTIES (TYPICAL VALUES)

Average Values Test Method

Average Values Test Method		
Thickness (micron)		
Film + Adhesive	50	ISO 534
Adhesive data, 23°C (N/25 mm)		
Peel adhesion 180° on glass		
- 20 min. residence	10	FTM1
- 24 hour residence	11	FTM1
Resistance to shear (Hours)	> 1000	FTM8 on glass
Dimensional stability		
Shrinkage (1 week at 70°C applied on Aluminium)	No shrinkage	FTM14
Temperature ranges		
Application (°C)	0	Minimum
End-use (°C)	-30 to +120	
Toy labelling	in compliance with EN 71/3	
Solvent and chemical resistance		
Resistance to most:	oils, greases, aliphatic solvents, alcohols. mild acids, mild alkalis.	
Petrol resistance	Resistant to short limited contacts. If extended contact, edge-lifting will occur.	

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.

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