

MACal® 8900 PRO

PRODUCT DESCRIPTION

MACal 8900 PRO are calendered soft vinyl films coated with a semi-permanent acrylic adhesive giving excellent dimensional stability.

MACal 8900 PRO have been specially developed for trouble-free computer cutting and fast weeding, even for small letters and fine lines.

Furthermore, if required, these films can be removed from the substrate, without leaving adhesive residue, for periods of up to 2 years after application.

Face Material: Calendered vinyl film, 70 µm thick, cadmium-free.

Adhesive: Semi-permanent solvent based acrylic adhesive.

Liner: Highly stable 135 gsm white kraft paper with Mactac backprinting.

For white vinyls the liner is coated with a blue silicone coating to improve the contrast with the film colour.

NB: CONTRAST ensures a clear view during the stripping process therefore improving productivity..

TYPICAL USE

MACal 8900 PRO is a medium term marking film designed for outdoor applications (vehicle marking, window graphics, signs...) and for indoor applications (exhibition stands).

Application is possible at temperatures down to 0°C.

PROCESSING

Computer cutting

Clean, quick, trouble-free cutting with most plotters. Adjustment of the cutting depth is important: if the cut is too deep this could result in the paper splitting and coming away with the adhesive when the vinyl is transferred to Application Tape

Application

The transfer of the cut vinyl onto the Application Tape should always be performed by removing the liner from the pressure-sensitive material and not by lifting off the Application Tape.

All surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination.

Note also that the wet application method is not recommended.

Cleaning

It is strongly recommended not to wash the decorated surfaces within 48 hours after the application.

Important remark

Some adverse reactions can occur when applying MACal 8900 PRO to certain substrates, for example: acrylics, polycarbonate, polystyrene, plasticized PVC, certain paints and lacquers. These reactions could take the form of cracks, swelling, ghosting and variance in adhesion performance. Therefore, as with any critical application, it is recommended to carry out suitability tests.

SHELF LIFE

2 years when stored at 15 to 25°C and ± 50 % relative humidity (in the original packaging).

PHYSICAL PROPERTIES (TYPICAL VALUES)

Average Values Test Method

Thickness		
Film + Adhesive (µm)	90	ISO 534
Face Material data, 23°C		
Tensile Strength (N/15mm)	> 25	DIN ISO 527-3
Elongation at Break (%)	150	DIN ISO 527-3
Adhesive data, 23°C		
Peel adhesion 180° on mirror stainless steel (N/25mm)		
- 20 min. residence	4	FTM 1
- 24 hour residence	5.5	FTM 1
- 1 week	7.5	FTM 1
Dimensional stability		
Shrinkage (48 hours at 70°C applied on aluminium)	Max. 0.2 mm	FTM 14
Temperature ranges		
Application	0°C	
End-use	- 40°C to + 70°C	

Flammability		
Sample mounted on aluminium	Self extinguishing	EN 13501-1
Solvent and chemical resistance		
Resistance to most:	Water, water and detergent, alcohol	unaffected
	Oil, gasoline, gasoline-oil	affected (lifting around dges)

EXPECTED DURABILITY

Central Europe Zone 1

Black & White	5 years	ISO 4892-2
Colours	4 years	ISO 4892-2

Note : Exposure to severe temperatures, ultraviolet light, and/or conditions in Southern European countries, tropical, sub-tropical or desert regions will cause more rapid deterioration. This also applies to polluted areas, high altitudes and south-facing exposure. No durability warranty is given for horizontal exposure.

DISCLAIMER

For more information on the durability and exposure please visit the “Mactac Technical Bulletin TB 7.5 Outdoor Durability of Mactac Graphics - Self-adhesive films” on the [www.https://www.mactacgraphics.eu](http://www.mactacgraphics.eu) website.

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