

MACal® 8900 PRO

PRODUCT DESCRIPTION

MACal 8900 PRO are calendared 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:

Calendared vinyl film, 70 µm thick, cadmium-free.

Adhesive:

Semi-permanent solvent based acrylic adhesive.

Liner:

Highly stable 135 gsm white kraft paper with grey 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.

SHELF LIFE

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

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.

SOLVENT AND CHEMICAL RESISTANCE

Water, water and detergent, alcohol : unaffected.

Oil, gasoline, gasoline-oil : affected (lifting around edges).

PHYSICAL PROPERTIES (TYPICAL VALUES)

Face Material Data, 23°C	Average values	Test method
Tensile strength (N/15mm)	> 25	DIN ISO 527-3
Elongation at break (%)	150	

Thickness

Face film + adhesive (µm)	90	ISO 534
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Adhesive data, 23°C (N/25 mm)

Peel on mirror Stainless Steel		FTM 1
20 minutes	4	
24 hours	5.5	
1 week	7.5	

Flammability

Self extinguishing (mounted on aluminium)	ISO 3795
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Dimensional stability

Shrinkage 48 hours at 70°C applied on aluminium)	Max. 0.2 mm	FTM 14
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Temperature ranges

Minimum application temperature	0°C
Service temperature range of use	- 40°C to + 70°C

EXPECTED DURABILITY* Central Europe Zone 1

Black & white	4	ISO 4892-2.
Colours	3	

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.

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