

MACal® 8000

PRODUCT DESCRIPTION

Fluorescent decorative films for short-term application.

Face Material: Soft vinyl film, 110 µm thick, cadmium-free.

Adhesive: White solvent based acrylic semi permanent adhesive.

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

TYPICAL USE

Decoration, pre-spaced texts and logos for short-term promotional campaigns. External and internal use on windows, display panels, exhibition walls, etc.

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 (i.e. with the PVC face downwards onto the working surface) 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 8000 to certain substrates, for example : acrylics, polycarbonate, polystyrene, plasticized PVC, certain paints and lacquers. These reactions could take the form of cracks, swelling, ghosting, variance in adhesion performance. Therefore, as with any critical application, it is recommended to carry out suitability tests.

SHELF LIFE

1 year when stored at 15 to 25°C and ± 50 % relative humidity.

PHYSICAL PROPERTIES (TYPICAL VALUES)

Average Values Test Method

Average Values Test Method		
Thickness (mm)		
Film + Adhesive	0.130	ISO 534
Face Material data, 23°C		
Tensile Strength	> 26 N/15mm	DIN ISO 527-3
Elongation at Break (%)	> 100%	DIN ISO 527-3
Adhesive data, 23°C (N/25 mm)		
Peel adhesion 180° on stainless steel		
- 20 min. residence	±10	FTM1
- 24 hour residence	±12	FTM1
- 1 week residence	±15	FTM1
Dimensional stability		
Shrinkage (1 week at 70°C applied on Aluminium)	< 0.3mm	FTM14
Temperature ranges		
Application (°C)	+ 10°C to + 40°C	
End-use (°C)	- 40°C to + 60°C	
Flammability		
Sample mounted on aluminium	self-extinguishing.	ISO 3795
Solvent and chemical resistance		
Resistance to most:	Water, water and detergent, alcohol	Unaffected
	Oil, gasoline, gasoline-oil	affected (lifting around edges)

EXPECTED DURABILITY

Central Europe - Zone 1) i

3-6 months	ISO 4892-2
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Note : Exposure to severe temperatures, ultraviolet light or conditions in southern European countries, as well as in tropical, sub-tropical or desert regions, will cause a more rapid deterioration. This also applies to polluted areas, high altitude, horizontal and south-facing 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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