

MACal® 8000

Technical Data Sheet

PRODUCT DESCRIPTION

Fluorescent decorative films for short-term application.

CONSTRUCTION

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 green backprinting.

TYPICAL USES

Decoration, pre-spaced texts and logos for short-term promotional campaigns.

External and internal use on windows, display panels, exhibition walls, etc.

EXPECTED DURABILITY

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

3 - 6 months.

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

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.

SHELF LIFE

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

PHYSICAL PROPERTIES (Typical values)

Thickness (mm) (Film + adhesive) ISO 534
0.130

Face Material Data, 23°C DIN ISO 527-3

Tensile strength : > 26 N/15mm

Elongation at break : > 100%

Adhesive Data, 23°C FTM 1

Peel adhesion 180° on stainless steel (N/25 mm)

- 20 min. residence : ±10

- 24 hours residence : ±12

- 1 week residence : ±15

Dimensional stability

FTM 14

Shrinkage (48 hours at 70°C) : < 0.3mm

Temperature ranges :

Application : + 10°C to + 40°C

End-use : - 40°C to + 60°C

N.B. : for lower temperatures, please consult us.

Flammability

ISO 3795

Sample mounted on aluminium : self-extinguishing.

Solvent and chemical resistance

Water, water and detergent, alcohol : unaffected.

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

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.

IMPORTANT NOTICE

All MACtac products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects.

Published information concerning MACtac products is based upon research which the Company believes to be reliable although such information does not constitute a warranty.

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