

# MACal<sup>®</sup> 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.

### DURABILITY

3 - 6 months.

These use-life estimates are based upon accelerated ageing studies and outdoor exposure, under conditions experienced in vertical exposure and in "normal" temperate climates.

**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 (Average values)

**Thickness** (mm) (Film + adhesive) ASTM D-645  
0.130

**Face Material Data, 23°C** DIN 53455-5

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) : < 0.2 %  
(25 cm x 25 cm, sample mounted on aluminium).

#### **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.

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