

# MACal® 1069-01

## Technical Data Sheet

### PRODUCT DESCRIPTION

MACal 1069-01 is a double side silver mirror like metallized PET film laminated on a 80µm transparent PVC film and coated with a permanent acrylic adhesive giving excellent dimensional stability.

MACal 1069-01 is designed for trouble-free computer cutting and fast weeding, even for small letters and fine lines.

### CONSTRUCTION

#### **Face material :**

120 µm double layer film made of metallized PET on a polymeric stabilized cadmium-free calendered vinyl.

#### **Adhesive :**

High quality clear solvent based permanent acrylic adhesive.

#### **Liner :**

Highly stable 135 gsm white kraft paper with grey back-printing.

### TYPICAL USES

MACal 1069-01 is designed for medium term interior and short term exterior marking applications (window graphics, signs, flat vehicle surfaces...).

MACal 1069-01 provides nice silver mirror like finish on both sides of the product for eye-catching markings on flat surfaces only.

### EXPECTED DURABILITY

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

- 3 years indoor
- 6 months outdoor

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

**Note :** Exposure to severe temperatures and ultraviolet light, as well as conditions in southern European countries, and also 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

2 years when stored at 15 to 25°C and ± 50 % relative humidity.

### PHYSICAL PROPERTIES (Typical values)

**Thickness** (mm) (Film + adhesive)      ISO 534  
0.145

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

Tensile strength      : ≥ 50 N/15mm

Elongation at break   : ≥ 60 %

#### **Adhesive Data, 23°C**

FTM 1

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

- 20 min. residence: 18

- 24 hours residence: 23

- 1 week residence: 26

#### **Dimensional stability**

FTM 14

Shrinkage (1 week at 70°C) : ≤ 0.5mm

#### **Temperature ranges :**

Application : + 8°C to + 40°C

End-use      : - 40°C to + 90°C

#### **Flammability**

ISO 3795

Sample mounted on aluminium : self-extinguishing.

#### **Solvent and chemical resistance**

Resistant to most oils and grease, fuel, aliphatic solvents, weak acids, salts and alkalis.

### 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.

MACal 1069-01 can be applied with the dry or wet application method on flat surfaces.

#### **Important remark**

All surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination. The compatibility of paints and lacquers should be tested by the end-user, prior to use.

A felt protected squeegee should be used to minimize scratches when applying product.

#### **Edge sealing and varnishing**

Where exposure to chemicals and solvent spillage is likely to occur, edge sealing of decals with a varnish will prevent edge lift. Correct varnishing of decals gives greater protection, and extends the use-life against prolonged effects of weathering, abrasion and other effects such as frequent cleanings.

**IMPORTANT NOTICE**

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