

MACal® 1069-02 & 1079-02

PRODUCT DESCRIPTION

MACal 1069-02 & 1079-02 are a double side mirror like metallized PET film coated with a permanent acrylic adhesive giving excellent dimensional stability. MACal 1069-02 & 1079-02 are designed for trouble-free computer cutting and fast weeding, even for small letters and fine lines.

Face Material: 25 µm metallized PET.

MACal 1069-02 is silver coloured and MACal 1079-02 is gold coloured.

Adhesive: High quality clear solvent based permanent acrylic adhesive.

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

TYPICAL USE

MACal 1069-02 & 1079-02 are designed for medium term interior and short term exterior marking applications (window graphics, signs, flat vehicle surfaces...). MACal 1069-02 & 1079-02 provide a nice mirror-like finish on both sides of the product for eye-catching markings on flat surfaces only.

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. These films are not printable.

APPLICATION METHOD

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 1069-02 and 1079-02 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.

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.

SHELF LIFE

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

PHYSICAL PROPERTIES (TYPICAL VALUES)

Average Values Test Method

Thickness		
Film + Adhesive (micron)	55	ISO 534
Face Material data, 23°C		
Tensile Strength (N/15 mm)	75	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	8	FTM1
- 24 hour residence	13	FTM1
- 1 week residence	13	FTM1
Dimensional stability		
Shrinkage (1 week at 70°C applied on Aluminium)	Max. 0.1 mm	FTM14
Temperature ranges		
Minimum application temperature (°C):	+10°C	
Service temperature range (°C):	-40°C to +90°C	
Flammability		
Sample mounted on aluminium	C-s2,d0	EN 13501-1
Solvent and chemical resistance		
Resistance to most:	oils and grease, fuel, aliphatic solvents, weak acids, salts and alkalis.	

EXPECTED DURABILITY

Central Europe Zone 1

Unprocessed	1069-02 1 year	ISO 4892-2
	1079-02 2 years	

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.

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](https://www.mactacgraphics.eu) website.

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