

MACal® 1002

Technical Data Sheet

PRODUCT DESCRIPTION

MACal 1002 is a gold mirror like metallized PET film with gold aspect on both sides of the film. This product is coated with a permanent acrylic adhesive giving excellent dimensional stability.

MACal 1002 was designed for trouble-free computer cutting and fast weeding, even for small letters and fine lines.

CONSTRUCTION

Face material :

23µm gold metallized PET film

Adhesive :

High quality clear solvent based permanent acrylic adhesive.

Liner :

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

TYPICAL USES

MACal 1002 is designed for medium term interior and short term exterior marking applications (window graphics, signs, flat vehicle surfaces...).

MACal 1002 provide nice mirror like finish 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
- 3 months outdoor

This information is based on successful real life experience and artificial aging according to ISO4892-3.

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
0.048

Adhesive Data, 23°C FTM 1

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

- 20 min. residence: 16
- 24 hours residence: 19
- 1 week residence : 20

Dimensional stability FTM 14

Shrinkage (1 week at 70°C) : < 0.2 mm

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 PET face downwards onto the working surface) and not by lifting off the Application Tape.

MACal 1002 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.

Edge sealing

Where exposure to chemicals and solvent spillage is likely to occur, edge sealing of decals with a varnish will prevent edge lift.

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.

Because of the variety of uses of MACTac products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. The seller shall not be liable for damages in excess of the purchase price of the product nor for incidental or consequential damages.

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