

MACal® Glass Decor 500

Technical Data Sheet

PRODUCT DESCRIPTION

MACal Glass Decor 500 series are polymeric translucent vinyls coated with a long-life durable, highly cohesive acrylic pressure-sensitive adhesive, which is protected with a high quality siliconized kraft paper.

CONSTRUCTION

Face material :

75 µm matt polymeric translucent stabilized vinyl film, cadmium-free.

Adhesive :

High quality acrylic solvent based adhesive, very cohesive and extremely durable.

Liner :

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

TYPICAL USES

Windows decoration with a frosted or sandblasted effect. Suitable for outdoor and indoor applications.

EXPECTED DURABILITY

The expected vertical outdoor durability of the unprocessed product in central Europe (Zone 1) is up to: 5 years.

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
0.100

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

Tensile strength : > 28 N/15mm

Elongation at break : > 150 %

Adhesive Data, 23°C FTM 1

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

- 20 min. residence: 14

- 24 hours residence: 17

- 1 week residence: 19

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 + 90°C

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

Flammability ISO 3795

Sample mounted on aluminium : self-extinguishing.

Solvent and chemical resistance

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

PROCESSING

Screen process

MACal Glass Decor 500 series can be screen printed.

Contact screen ink supplier for advice on suitable inks.

Computer cutting

Clean, quick, trouble-free cutting with most plotters.

Adjustment of the cutting depth is important : if the cut is too deep, the paper could split and remain on the adhesive when the vinyl is transferred to Application Tape.

Application

Application of pre-spaced letters, logos and decals made from MACal Glass Decor 500 is made easier using MACtransfer application tape.

For a uniform appearance, application by the wet method is recommended.

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.

All specifications are subject to change without prior notice.