

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. This is protected with a high quality plain or a bubble free (BF) liner.

CONSTRUCTION

Face material :

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

Adhesive :

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

BE: Micro-embossed, repositionable, clear solvent based acrylic adhesive.

Liner :

Plain: Highly stable 135 gsm white kraft paper printed with red backprinting.

BE: Highly stable 145 gsm white micro-embossed PE coated paper with a blue backprinting..

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)

	Plain	BF
Thickness (mm) (Film+adhesive) ISO 534		0.105

Face Material Data, 23°C

DIN ISO 527-3

Tensile strength (N/15mm)

>28

Elongation at break (%)

>150

Adhesive Data, 23°C

FTM 1, Peel adhesion 180° on stainless steel (N/25 mm)

- 20 min. residence:	14	13
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- 24 hours residence:	17	17
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- 1 week residence	19	19
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Dimensional stability

FTM14 (mm)

Shrinkage (48 hours at 70°C) <0.3

Temperature ranges (°C):

Application: +10 to +40

End-use: -40 to +90

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.

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. It is not recommended to plotter cut small letters with the BF version.

Application

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

For an uniform appearance, GlassDecor 500 plain is applied by the wet method whereas the BF version should be applied dry.



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.

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