

MACal® Glass Decor 500

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.

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.

Bubble Free (BF): Highly stable 145 gsm white micro-embossed PE coated paper with a blue backprinting.

TYPICAL USE

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

PROCESSING

Screen process

MACal Glass Decor 500 series can be screen printed. Contact screen ink supplier for advice on suitable inks.

Plotters

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.

SHELF LIFE

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

APPLICATION METHOD

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.

SOLVENT AND CHEMICAL RESISTANCE

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

PHYSICAL PROPERTIES (TYPICAL VALUES)

Face Material Data, 23°C	Average values	Test method
Tensile strength (N/15mm)	> 28	DIN ISO 527-3
Elongation at break (%)	> 150	

Thickness	Plain	BF	
Face film + adhesive (µm)	105	105	ISO 534

Adhesive data, 23°C (N/25 mm)

Peel 180° on Stainless Steel

	Plain	BF	Test method
20 minutes	14	13	FTM 1
24 hours	17	17	
1 week	19	19	

Dimensional stability

Shrinkage (48 hours at 70°C applied on aluminium)	Max. 0.3 mm	FTM 14

Temperature ranges

Application temperature	+10 to 40°C
Service temperature range of use	- 40°C to + 90°C

Flammability

Sample mounted on aluminium	Self-extinguishing	ISO 3795
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EXPECTED DURABILITY*

Central Europe Zone 1

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 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.

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