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.

- Plain: High quality acrylic adhesive, very cohesive and extremely durable.
- BF: Micro-embossed, repositionable, clear acrylic adhesive.
- Plain: Highly stable 135 g/m² white kraft paper printed with Mactac backprinting.
- Bubble Free (BF): Highly stable 145 g/m² white micro-embossed PE coated paper with Mactac 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.

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.

Due to its unique finish, variances in appearance can be visible when the material is oriented in different directions. When utilizing MACal Glass Decor 500, always keep the application direction of the film consistent with the orientation of the film when cut from the roll and applied to the glass.

It features a lower initial tack adhesive and improves the application.

SHELF LIFE

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

PHYSICAL PROPERTIES (TYPICAL VALUES)

Thickness	**Average Values**		**Test Method**
	Plain	**BF**	
Film + Adhesive (micron)	105	110	ISO 534
Face Material data, 23°C			
Tensile Strength (N/15mm)	> 28		DIN ISO 527-3
Elongation at Break (%)	> 150		DIN ISO 527-3
Adhesive data, 23°C (N/25 mm)			
Peel adhesion 180° on stainless steel			
	Plain	**BF**	
- 20 min. residence	13	4	FTM1
- 24 hour residence	15	4	FTM1
- 1 week residence	16	5	FTM1
Dimensional stability			
Shrinkage (1 week at 70°C applied on Aluminium)	Max 0,3 mm		FTM14
Temperature ranges			
Minimum application temperature (°C):			+ 10 °C
Service temperature range (°C):			- 40 °C to + 90 °C
Flammability			
Sample mounted on aluminium	B-s2,d0		EN 13501-1

Contact
Email: mactac.europe@mactac.eu
Website: www.mactacgraphics.eu

Solvent and chemical resistance	
Resistance to most:	oils and grease, fuel, aliphatic solvents, weak acids, salts and alkalis

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 ISO4892-2.

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.

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 website.

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Contact
Email: mactac.europe@mactac.eu
Website: www.mactacgraphics.eu