

MACal Glass Decor 498-00 Frosted + BF Frosted

PRODUCT DESCRIPTION

MACal Glass Decor 400 series are intermediate calandered vinyl films for window decoration and are coated with a long-life durable, highly cohesive acrylic pressure-sensitive adhesive. There is a choice between a high quality plain or a bubble free (BF) liner to enjoy a durable, cost-effective solution that enhances any environment. It also functions on other transparent media, like acrylic and polycarbonate sheets.

Face Material: 75µm matt intermediate calandered vinyl film

Adhesive: Permanent solvent adhesive

Liner: 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

Decoration of windows with a frosted effect. Suitable for short term outdoor and indoor applications.

PROCESSING

Screen and digital processes

MACal Glass Decor 400 series can be screen or digitally printed. Contact screen ink supplier for advice on suitable inks. A print test prior to application is strongly recommended.

Computer cutting

Clean and quick 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 400 is made easier using MACtransfer Application Tape. For an uniform appearance, Glass Decor 400 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 400, 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.

SHELF LIFE

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

PHYSICAL PROPERTIES (TYPICAL VALUES)

Average Values Test Method

Thickness			
Film + Adhesive (µm)	Plain 100	BF 105	ISO 534
Face Material data, 23°C			
Tensile Strength (N/15mm)	> 25		DIN ISO 527-3
Elongation at Break (%)	> 150		DIN ISO 527-3
Adhesive data, 23°C (N/25 mm)			
Peel adhesion 180° on mirror stainless steel (N/25mm)			
	Plain	BF	
- 20 min. residence	14	13	FTM 1
- 24 hour residence	17	17	FTM 1
- 1 week residence	19	19	FTM 1
Dimensional stability			
Shrinkage (1 week at 70°C applied on Aluminium)	Max 0.3 mm		FTM 14
Temperature ranges			
Application (°C)	Min. +10		
End-use (°C)	-40 to +70		
Solvent and chemical resistance			
			unaffected

Resistance to most:	Water, water and detergent, alcohols	
	Oil , gasoline, gasoline-oil	affected (lifting around edges)

EXPECTED DURABILITY

Central Europe Zone 1: The expected vertical outdoor durability of the unprocessed product in central Europe (Zone 1) is up to 3 years outdoor, and 5 years indoor. 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](https://www.mactacgraphics.eu) website.

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