

# MACal<sup>®</sup> Glass Decor 700

## Technical Data Sheet

### PRODUCT DESCRIPTION

MACal Glass Decor 700 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 :**

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

#### **Adhesive :**

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

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

#### **Liner :**

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

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

### RECOMMENDED USES

Decoration of windows and glass decor for an etched, 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 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.

### SHELF LIFE

2 years when stored at 15 to 25°C and ± 50 % relative humidity.

### PHYSICAL PROPERTIES (Typical values)

	<b>Plain</b>	<b>BF</b>
<b>Thickness (mm)</b> (Film+adhesive) ISO 534	0.115	0.110
<b>Face Material Data, 23°C</b>		
DIN ISO 527-3		
Tensile strength (N/15mm)		>28
Elongation at break (%)		>150
<b>Adhesive Data, 23°C</b>		
FTM 1, Peel adhesion 180° on stainless steel (N/25 mm)		
- 20 min. residence:	14	16
- 24 hours residence:	17	17
- 1 week residence	19	20
<b>Dimensional stability</b>		
FTM14 ( mm)		
Shrinkage (48 hours at 70°C)		<0.3
<b>Temperature ranges (°C):</b>		
Application:	+10 to +40	+15 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 700 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 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 700 is made easier using MACTransfer Application Tape.

For an uniform appearance, GlassDecor 700 plain is applied by the wet method whereas the BF version should be applied dry.

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