

# **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, which is protected with a high quality siliconized kraft paper.

### **CONSTRUCTION**

#### **Face material :**

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

#### **Adhesive :**

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

#### **Liner :**

Highly stable 135 gsm white kraft paper printed with grey back printing.

### **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 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)

**Thickness** (mm) (Film + adhesive) ISO 534  
0.100

**Face Material Data, 23°C** DIN 53455-5

Tensile strength : > 28 N/15mm

Elongation at break : > 150 %

**Adhesive Data, 23°C** FTM 1

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

- 20 min. residence: 14

- 24 hours residence: 17

- 1 week residence: 19

**Dimensional stability** FTM 14

Shrinkage (48 hours at 70°C) : < 0.2 %

(25 cm x 25 cm, sample mounted on aluminium).

**Temperature ranges :**

Application : + 10°C to + 40°C

End-use : - 40°C to + 90°C

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.

#### **Computer cutting**

Clean, quick, trouble-free cutting with most plotters. Adjustment of the cutting depth is important : if the cut is too deep, the paper could split and remain on the adhesive when the vinyl is transferred to Application Tape.

#### **Application**

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

For a uniform appearance, application by the wet method is recommended.

**IMPORTANT NOTICE**

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*Published information concerning MACTac products is based upon research which the Company believes to be reliable although such information does not constitute a warranty.*

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