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Version #10 (0819)  
Approved by J. S.

## Product

MACmark® Glass Décor 700

## Product Description

MACal Glass Décor 700 series films are translucent vinyl films with white ‘dusted’ and ‘frosted’ finishes and five translucent “frosted” colors for decoration of glass windows, mirrors or doors for an etched, frosted or sandblasted look. The face is a **translucent matte** 3-mil cadmium-free vinyl. The film is coated with a durable permanent acrylic adhesive with excellent wet out characteristics for clarity. An 83# white kraft liner offers stability and layflat. The product has good dimensional stability and is designed for excellent cutting and weed ability.

## Typical Uses

- Indoor windows
- Glass partition walls

## Physical Properties

Property	Typical Values	Test Method
<b>Thickness, inches (µm)</b> Film plus adhesive	0.0045 (115)	ASTM D-45
<b>Peel Adhesion</b> 180° on Stainless Steel - 30 min. - 24 hr. - 1 week	3.2 (14) 3.9 (17) 4.3 (19)	ASTM D-903
<b>Face Material Data, 68°F (20°C)</b> Tensile strength lbs./0.60in (N/15 mm) Elongation % at break	≥10 (28) ≥180	DIN 53455
<b>Dimensional Stability (shrinkage) in Percent</b> 48 hours @ 158°F (70°C)	<0.1	FTM - 14 10" x10" Sample Bonded to aluminum
<b>Temperature Ranges</b> Application: End Use:	50° to 104°F (10° to 40°C) -40° to 194°F (-40° to 90°C)	
<b>Flammability</b>	Self-extinguishing	ISO 3795

## Shelf Life

Two years when stored at 75°F (24°C) and 50% relative humidity or less.

## Light Properties

UV, Visible & IR (Film applied on 4mm glass)

EN410

<b><i>Optical Properties</i></b>	<b><i>708-00</i></b>	<b><i>738-00</i></b>	<b><i>748-00</i></b>	<b><i>758-00</i></b>	<b><i>778-00</i></b>	<b><i>798-01</i></b>	<b><i>798-02</i></b>
% Energy Reflection	22.87	23.82	23.16	23.83	24.84	22.11	8.41
% Energy Absorption	38.29	27.44	27.89	26.39	20.24	14.43	16.57
% Energy Transmission	38.84	48.74	48.95	49.78	50.29	56.82	75.02
% Light Reflection	23.97	22.85	23.65	23.68	23.73	22.93	9.51
% Light Transmission	43.53	50.14	53.98	52.87	56.03	62.64	82.20
% Light Absorption	32.50	27.01	22.37	23.45	24.87	21.07	8.29
% U.V. Blocked	81.25	83.63	82.11	80.18	87.09	76.56	68.01
% U.V. Transmission	18.75	16.37	17.89	19.82	12.91	23.44	31.99

## Durability

The outdoor durability of this film is: Indoor and up to 5 years outdoors durability. This use-life estimate is based upon accelerated age studies. Please note that exposure to severe temperatures, ultra-violet light and also tropical, sub-tropical or desert regions will cause more rapid deterioration. This also applies to polluted areas, high altitude and south facing exposure.

## Chemical Resistance

This product is resistant to most oils and greases, gasoline (fuels), aliphatic solvents, weak acids and alkalis.

## Limitations

- 1) The user is responsible for determining the product's suitability, including adhesion and if needed, removal characteristics when used in applications other than listed specifically in this Performance Guide.**
- 2) If there are any questions about applications, please contact your Mactac sales representative to discuss your requirements for recommendations.**
- 3) If this is a printed Performance Guide it is an uncontrolled document. Please check the Mactac website for the latest, most up-to-date version.**

## Application

- 1) Application of Glass Décor 700 series films is made easier if **MACtransfer**® application tape is used. MACtransfer 210 for medium to large graphics and MACtransfer 220 for small letters and fine lines.
- 2) This product can be applied with the wet method.
- 3) **Cleaning Window Films:**
  - a. Use a clean, soft, lint-free cloth.
  - b. Use off the shelf glass cleaner (Windex, Glass Plus, etc.).
  - c. Spray the cleaner onto the cloth, **not** onto the image.
  - d. Wipe down the image with the wet (do not over saturate) cloth.
  - e. Immediately dry with a clean soft dry cloth.
  - f. If the edges of the image are not sealed, take care not to introduce cleaner to the adhesive as over time edge lifting will occur.

- g. MACal Glass Décor 700 series films can be screen-printed. Contact screen ink suppliers for advice on suitable inks
- *Values given are typical and are not necessarily for use in specification.*

**CALL 1-800-321-8834 for additional product information**

**IMPORTANT NOTICE:** The information given and the recommendations made herein are based on our research and are believed to be accurate, but no guarantee of their accuracy or completeness is made. In every case, user shall determine before using any product in full scale production, or in any way, whether such product is suitable for user's intended use for their particular purpose under their own operating conditions. User assumes all risk and liability whatsoever in connection with their use of any product. The products discussed herein are sold without any warranty as to merchantability or fitness for a particular purpose, or any other warranty, express or implied. No representative of ours has any authority to waive or change the foregoing provisions, and no statement or recommendation not contained herein shall have any force of effect unless in an agreement signed by the officers of seller and manufacturer. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent without authority from the owner of the patent. The following is made in lieu of all warranties, express or implied: Seller's and manufacturer's only obligation shall be to replace or credit such quantity of the product proved to be defective at its discretion.

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