

# GlassMovie

## Technical Data Sheet

### PRODUCT DESCRIPTION

GlassMovie is a rear projection film which can be applied on synthetic or natural window glass.

GlassMovie allows a high contrast and colourful projected image. This image is visible with an excellent resolution and at a wide viewing angle (up to 100°).

GlassMovie provides an optimal visual impact under all brightness levels in the day or at night.

### CONSTRUCTION

#### **Face Material :**

135 µm polymeric translucent vinyl, cadmium-free.

#### **Adhesive :**

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

#### **Liner :**

135 gsm white kraft paper with MACTac blue backprinting.

### TYPICAL USES

Indoor and outdoor visual communication on windows.

GlassMovie can be plotter cut to any size or shape, creating unexpected digital displays, or can also be used as an extra large digital display.

GlassMovie could be used for rear projection of video, images on:

- Shop windows, show rooms,
- Exhibitions, point of sale, shopping malls,
- Lobbies, meeting rooms, restaurants,
- Museums, airports, railway stations, ...

### DURABILITY

5 years

This useable life estimate is based upon accelerated ageing studies and outdoor exposure, under conditions experienced in vertical exposure and in "normal" temperate climates.

**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/or south-facing exposure.

### SHELF LIFE

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

### PHYSICAL PROPERTIES (Average values)

**Thickness** (mm) (Film + adhesive)      ASTM D-645  
0.160

#### **Face Material Data, 23°C**

Tensile strength : > 50 N/15mm

Elongation at break : ≥ 200 %

DIN 53455-5

#### **Adhesive Data, 23°C**

Peel adhesion 180° on glass (N/25mm)

- after 20 min. : 20

- after 24 h : 24

FTM 1

#### **Dimensional Stability**

Shrinkage (48 hours at 70°C) : < 0.1%

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

FTM 14

#### **Temperature Ranges :**

Application : +10°C to + 40°C

End-use : - 40°C to + 90°C

#### **Flammability**

ISO 3795

Sample mounted on aluminium : self-extinguishing.

#### **Solvent and Chemical Resistance**

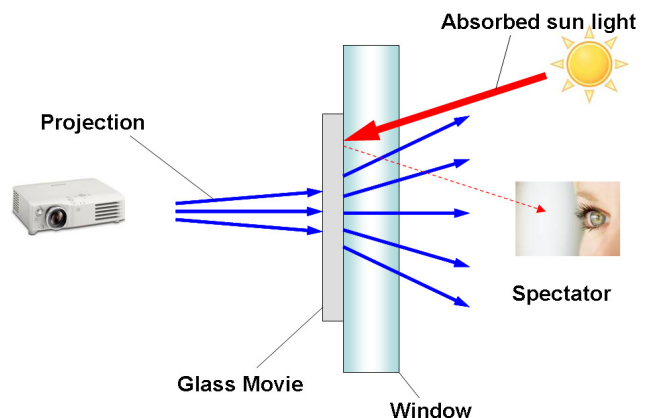
Resistant to most oils and grease, fuel, aliphatic solvents, weak acids, salts and alkalis.

### PROCESSING

GlassMovie can be plotter cut easily to any size or shape with most plotters.

Installation should be done by the 'wet method' (see MACTac application guide for more details) on a clean and degreased clear window.

Images projected onto tinted or metallised windows will be less visible.



#### **Video projection**

The quality of the projected image will also depend on the power of the projector used.

For a rear projection indoors, we recommend to use a projector with a power of minimum 2.000 lumen per sqm of GlassMovie.

For a rear projection on an external window, a minimum of 6.000 lumen per sqm of GlassMovie is recommended, and in direct sunlight, an intensity of min 8.000 lumen per sqm is required.



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