

# Window Etch Film

## Technical Data Sheet

### PRODUCT DESCRIPTION

Window Etch Film is a monomeric translucent vinyl coated with a highly cohesive acrylic pressure-sensitive adhesive, which is protected with a high quality siliconized kraft paper.

### CONSTRUCTION

**Face material :**

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

**Adhesive :**

High quality acrylic solvent based adhesive, with very good cohesion.

**Liner :**

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

### TYPICAL USES

Windows decoration with a frosted or sandblasted effect, office glass partitioning. Suitable for indoor applications.

### EXPECTED DURABILITY

The expected vertical indoor durability of the unprocessed product in central Europe (Zone 1) is up to 4 years.

This information is based on successful real life experience and artificial aging according to ISO 4892-2.

**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.

### 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  
0.105

**Face Material Data, 23°C** DIN ISO 527-3

Tensile strength : > 28 N/15mm

Elongation at break : > 150 %

**Adhesive Data, 23°C** FTM 1

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

- 20 min. residence : 12

- 24 hours residence: 14

- 1 week residence: 16

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

- 20 min. residence : 15

- 24 hours residence: 16

- 1 week residence: 17

**Dimensional stability** FTM 14

Shrinkage (48 hours at 70°C) : < 0.3mm

**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**

Mactac Window Etch Film 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 the Window Etch Film is made easier using MACtransfer application tape.

The transfer of the cut vinyl onto the Application Tape should always be performed by removing the liner from the pressure-sensitive material (i.e. with the PVC face downwards onto the working surface) and not by lifting off the Application Tape.

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

**Important remark**

All surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination. A felt protected squeegee should be used to minimize scratches when applying product.

**Edge sealing**

Where exposure to chemicals and solvent spillage is likely to occur, edge sealing of decals with a varnish will prevent edge lift.

**IMPORTANT NOTICE**

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