



## TECHNICAL DATA SHEET - PLOTTER VINYL - ETCHED GLASS HX5DEPM - HX5DP03

Film composed of an 80- $\mu$ m calendered, polymeric PVC, which is coated with a pressure-sensitive acrylic adhesive. Structured adhesive for faster application and air evacuation. Matt etched glass surface finish.

### **FILM FEATURES:**

	<u>Indicative value</u>	
• Thickness ( $\mu$ m):	80	
	<u>Average values</u>	<u>Standard</u>
• Tensile strength (N/25 mm):	min. 35	HEXNFX4102I
• Elongation at break (%):	min. 100	HEXNFX4102I
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 0.4	HEXRET001

### **LINER:**

- Silicone-coated and embossed PE paper 145 g/m<sup>2</sup>, with light grey HEXIS print.
- Stable under hygrometric variations.

### **ADHESIVE PROPERTIES:**

(Measured average values at publication of the technical data sheet)

	<u>Average values</u>	<u>Standard</u>
• Peel strength test 180° on glass (N/25 mm):		HEXFMT001
after 20 minutes of application	20	
after 24 hours of application	25	
• Initial tack (N/25 mm):	20	HEXFMT009
• Release (N/25 mm):	0.2	HEXFMT003
• Resistance to solvents: the adhesive is resistant to most chemicals (alcohol, petrol, diluted acids, oils, fuels).		

### **ADHESIVE:**

- Solvent-based, acrylic adhesive.
- Immediate and permanent adhesion, optimal after 24 hours of contact.
- Structured adhesive for faster application and air evacuation.

**USER'S INSTRUCTIONS:**

- Apply to an untreated surface, free from all traces of contaminants (dust, grease, wax, silicone etc.) and cleaned with a soapy liquid without anti-adherent additives.

*Particular care must be taken to clean the angles and periphery of the glass surfaces in order to allow the film to adhere properly to the surface.*

- Dry application.

*It is mandatory to use the so-called "dry" application method due to its HEX'PRESS liner. This technology means you can easily reposition the film on the substrate during application, while not excluding the squeegeeing step for optimal adhesion of the film to the substrate.*

- Hygrometry influences the quality of the application.

*On a cold window condensation may occur between the window and the adhesive film; it is therefore advisable to heat the substrate.*

- Recommended minimum application temperature: +10 °C (+50 °F).

*The minimum temperature must comply with both in terms of ambient and substrate temperature. In a cold environment, the transfer tape should be left on longer before its removal and several days are needed to complete the final adhesion of the vinyl.*

- Range of film operating temperatures exclusively: -40 °C to +90 °C (-40 °F to +194 °F).
- To facilitate application, HEXIS has several types of squeegees in its range of accessories, ranging from softer to harder (plastic or felt).
- Firmly press the squeegee over all the edges.
- The film or paper transfer tape allows you to press the squeegee firmly over the entire surface of the graphic to be transferred.

*If using a transfer film, HEX915 tape is recommended.*

- In the case of an already painted substrate, self-adhesive media must only be applied to undamaged original paintwork. If the paintwork is not original and/or damaged, the application and the removal are at the judgement and risk of the installer.

**OPERATING RECOMMENDATIONS:**

- The films should preferably be stored in the same environment as the cutting station.
- If the pressure is too high, the protective liner (silicone-coated paper) may slightly crack and the adhesive may penetrate. This would make the weeding process more difficult and the paper liner could even peel off in the cutting area. In any case, it is recommended to weed the material immediately after the cutting.
- The colour of the films is controlled by HEXIS in order to ensure faithful reproduction of their colour tints. Nevertheless, in the case that your project requires the use of several rolls of the same colour reference, HEXIS recommend using only a single batch number of each reference.
- To enhance the longevity of the etched glass outdoors only, you can use a seal.
- For more information on the application method of the films HX5DEPM – HX5DP03, please refer to the Application Guide available on the "Professionals" pages, category "Plotter Vinyls" on our site [www.hexis-graphics.com](http://www.hexis-graphics.com).

**STORAGE:**

- Shelf life (before application):

The shelf life of this film is 2 years when stored unopened in its original packaging at a temperature ranging from +15 °C to +25 °C (+59 °F to +77 °F) with relative humidity between 30 % and 70 %.

**DURABILITY:**

- The pigmentation (colour) of the PVC affects the stability duration of the dyes. These resistances are confirmed by UV ageing tests performed on ETCHED GLASS polymers and by natural exposure; the durations given are the periods during which the surface finish is expected to be free from any gradual reduction or modification.
- These results were obtained from a vertical outdoor exposure and the durability conditions indicated are inherent to this position up to a few degrees. Other positions accentuate climatic influences and an alteration in gloss, colour or even a slight dusting may appear (outdoors).
- Southern exposure with a 45° inclination can divide the durability of the film by 2, compared to the values indicated in the tables below.

Colours	Northern & Central European climate	Orbital Mediterranean climate	Tropical Oceanic climate	Desert climate
HX5DEPM	8 years	7 years	5 years	4 years
HX5DP03	Up to 4 years	Up to 3 years	Up to 3 years	Up to 2 years

**NOTES:**

Due to the great variety of substrates and the growing number of new applications, the installer must check the suitability of the medium for each application. HEXIS cannot be held liable for misuse and/or damage caused to the substrate throughout the life of the product (from application to removal), in the case of inconsistencies between the product and the substrate.

The measuring methods for the standards quoted above served as the basis for the development of our own measuring methods which are available on request. Please feel free to contact us to get the latest instructions in use.

All the published information is based on measurements regularly performed in the laboratory. It does not however constitute a binding guarantee. The seller cannot be held liable for indirectly related damages and assumes no liability for claims that are higher than the replacement value of the purchased product. All specifications are subject to potential changes without prior notice. Our specifications are automatically updated on our website [www.hexis-graphics.com](http://www.hexis-graphics.com).