



# HX5DEPM – HX5DP03

## PRODUCT DESCRIPTION:

Film composed of an 80-µm, 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:

• Thickness	(Indicative value) <b>80 µm</b>	
• Tensile strength	(Average values) <b>min. 35 N/25 mm</b>	Method <b>HEXNFX41021</b>
• Elongation at break	(Average values) <b>min. 100 %</b>	Method <b>HEXNFX41021</b>
• Shrinkage 168 hours at 70 °C (158 °F)	(Average values) <b>&lt; 0.4 mm</b>	Method <b>HEXRET001</b>

## 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)

- Peel strength test at 180°; Measurement support glass
 

after 20 minutes of application	(Average values) <b>18 N/25 mm</b>	Method <b>HEXFTM001</b>
after 24 hours of application	(Average values) <b>23 N/25 mm</b>	Method <b>HEXFTM001</b>
- Initial tack
 

	(Average values) <b>20 N/25 mm</b>	Method <b>HEXFTM009</b>
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- Release
 

	(Average values) <b>0.2 N/25 mm</b>	Method <b>HEXFTM003</b>
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- Resistance to solvents: the adhesive is resistant to most chemicals (alcohol, petrol, diluted acids, oils, fuels).

## ADHESIVE:

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

## USER'S INSTRUCTIONS:

- Dry application method

*It is mandatory to use the so-called «dry» application method with this film, 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.*

- Recommended minimum application temperature: +10 °C (+50 °F)
- Operating temperature range: -40 °C to +90 °C (-40 °F to +194 °F)
  - 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.*

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- 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.*



Both the ambient and the substrate temperature must comply with the minimum temperature. In a cold environment, the transfer tape should be left on longer before its removal as several days are necessary to complete the final adhesion of the film.

- To facilitate application, HEXIS have 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:



Storage period before use  
**2 years**



Relative humidity during storage  
**with relative humidity between 30 % and 70 %**



Storage temperature  
**+15 °C to +25 °C (+59 °F to +77 °F)**



Storage method before use  
**in its unopened original packaging**

## DURABILITY:

- The pigmentation (colour) of the PVC affects the stability duration of the dyes. These stabilities 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 indicated conditions of durability are inherent to this position up to a few degrees. Other positions accentuate climatic influences and an alteration in gloss or colour, or even a slight dusting may appear (outdoors).
- Southern exposure with a 45° inclination may divide the durability of the film by 2, compared to the values indicated in the tables below.

Colours	Central European climate	Mediterranean climate	Tropical Oceanic climate	Desert Climate
HX5DEPM	8 years	7 years	5 years	4 years

## CERTIFICATION:

Fire-smoke classification



Fire-smoke classification standard  
**EN 13501-1**

Fire-smoke classification protocol no.  
**EFR-21-001909-Review 1**

## 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. 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 of the published information is based on measurements regularly performed in the laboratory. The published information 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).