



## TECHNICAL DATA SHEET – PLOTTER VINYL – ETCHED GLASS S5DEPM and S5DP Series

Range comprising of a 3.15-mil (0.08-mm) calendered, polymeric PVC, which is coated with a pressure-sensitive, acrylic adhesive.

### FILM FEATURES:

	<u>Indicative value</u>	
Thickness:	3.15 mil 0.08 mm	
	<u>Average values</u>	<u>Standard</u>
Tensile strength:	min. 7.74 lb./in. min. 35 N/25mm	HEXNFX41021
Elongation at break:	min. 100 %	HEXNFX41021
Shrinkage 168 hours at 158 °F (70 °C):	< 0.016 inch < 0.4 mm	HEXRET001

### LINER:

- 92# silicone-coated Kraft paper with 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:		
after 20 min. of application	3.98 lb./in. 18 N/25mm	HEXFTM001
after 24 hours of application	5.09 lb./in. 23 N/25mm	
Initial tack	3.76 lb./in. 17 N/25mm	HEXFTM009
Release	0.044 lb./in. 0.2 N/25mm	HEXFTM003

- 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; suitable for wet application.

**USER'S INSTRUCTIONS:**

- The films should preferably be stored in the same environment as the cutting station.
- If the pressure during cutting is too high, the protective liner (silicone-coated paper) may slightly crack causing adhesive bleeding. 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.
- Recommended minimum application temperature: +50 °F (+10 °C).

*The minimum temperature must comply with both in terms of ambient and substrate temperature.*

- Operating temperature range: -40 °F to +194 °F (-40 °C to +90 °C).
- Apply to an untreated surface that is clean and free from all traces of contaminants (dust, grease, wax, silicone, etc.).

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

***Cleaning with soapy water only.***

- The film transfer tapes (HEX909, HEX750, HEX930) allow you to press the squeegee firmly over the entire surface of the graphic to be transferred.

***If using HEX930 tape, the film must solely be applied according to the dry application method.***

- To facilitate application, HEXIS has several types of squeegees in its range of accessories, ranging from softer to harder (plastic or felt).
- 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.
- If bubbles appear during the dry application, only use a needle to pierce and expel the air as a cutter would weaken the film in this area.
- In the case of 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:**

- For a window glass application, due to a variety of light exposures and conditions, especially when applying with backlight, it is recommended to perform a preliminary test before each type of application.
- The color of the films is controlled by HEXIS in order to ensure faithful reproduction of their color tints. Nevertheless, in the case where your project requires the use of several rolls of the same color reference, HEXIS recommend using only a single batch number of each reference.
- For further information on the application method of the etched glass films, please refer to the Application Guide available on the "Professionals" pages, category "Plotter vinyls" on our website at [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 +59 °F to +77 °F (+15 °C to +25 °C) with relative humidity between 30 % and 70 %.

**DURABILITY:**

The pigmentation (color) 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.

Colors	Indicative durability
S5DEPM	8 years
Colored etched glass	Up to 4 years

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, color or even a slight dusting may appear (outdoors).

*To find the indicative durabilities of the films for any other exposure and geographical area, please refer to the "Conversion rules for indicative durabilities according to geographical area" chart available under Durability, on the "Professionals" pages on our site [www.hexis-graphics.com](http://www.hexis-graphics.com).*

**NOTES:**

Due to the great variety of substrates and the growing number of new applications, the installer must check the suitability of the media for each application. The measuring methods for the standards quoted above served as 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).