TECHNICAL DATA SHEET – SIGN VINYL – ETCHED GLASS

S5DEPM and S5DP Series

Range of products consisting of an 80-µm, polymeric calendered, cadmium-free PVC, which is coated with a pressure-sensitive, acrylic adhesive.

FILM FEATURES:

	Average values	Standard
• Thickness (µm):	80	
• Tensile strength (N/25 mm):	min. 35	HEXNFX41021
• Elongation at break (%):	min. 100	HEXNFX41021
• Shrinkage (mm) after 168 hours at 70 °C (158 °F):	< 0.4	HEXRET001

LINER:

- Silicone-coated kraft paper of 137 g/m² with grey HEXIS imprint
- Stable under hygrometric variations

ADHESIVE FEATURES:

(Average values measured at data sheet editing time)

	Average values	Standard
• 180° peel strength test (N/25 mm) on glass:		HEXFTM001
after 20 minutes of application	16	
after 24 hours of application	22	
• Initial tack (N/25 mm):	15	HEXFTM009
• Release (N/25 mm):	0.2	HEXFTM003

- Solvent resistance: the adhesive is resistant to most chemical agents (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 under the same environmental conditions as the plotter.
- If the pressure is too high, the protective liner (silicone-coated paper) could slightly crack and the adhesive could 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 right after cutting.
- Minimum application temperature recommended: +10 °C (+50 °F)

The minimum application temperature must be applied for both the ambient and substrate temperature.

- Operating temperature range: from -40 °C to +90 °C (from -40 °F to +194 °F)
- Application to clean, untreated surfaces free of any traces of pollutants (dust, grease, wax, silicone…).

Please pay particular attention to the cleaning of angles and edges of the glass surfaces in order to let the film properly adhere to the surface.

***Cleaning of the glass surfaces only with soapy water**.*

- The use of a transfer film (HEX750, HEX955, HEX930) enables you to firmly apply the squeegee on the entire surface of the graphics to be transferred.

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

- To make application easier, HEXIS can provide you with a line of accessories consisting of different types of squeegees, from very soft to very hard ones (plastic or felt).
- In a cold environment, the transfer tape should be left on the film for a slightly longer period of time before its removal because several days are required before achieving 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 substrates, self-adhesive media must only be applied onto undamaged original paintwork. If the paintwork is not the original and/or is damaged, the application and the removal are at the installer's own judgement and own risk.

RECOMMENDATIONS FOR USE:

- In the case of glass and notably backlit applications, it is recommended to check the feasibility of each processing due to the diversity of exposure and light conditions.
- The colour of the films is controlled by HEXIS in order to ensure faithful reproduction of the colour tints. Nevertheless, should your project require the use of several rolls of a single colour reference, HEXIS recommends that you use only one batch number of this colour.
- For further information on the application method of the etched glass films, please refer to the Application Guide available on the "Professionals" pages, category "Sign vinyl" on our website at www.hexis-graphics.com.

STORAGE:

- Shelf life (before application):

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

DURABILITY:

The colour pigments of the PVC influence the stability duration of colourings. These durabilities are obtained from ageing tests performed on the polymers of the etched glass film through UV rays and outdoor exposure; the durations indicated below are those from which a gradual change or impairment of the appearance is noticeable.

Colours	Northern & Central European Climate	Mediterranean Climate	Tropical & Oceanic Climate	Desert Climate
S5DEPM	8 years	7 years	5 years	4 years
Coloured etched glass	2,5 years	2 years	1,5 years	1 year

These results are obtained from vertical outdoor exposure. The stated durability conditions are inherent to this position up to some degrees. Any other position accentuates the climatic impacts and may further the appearance of gloss and colour alteration, and even a slight dusting phenomenon (outdoors).