



TECHNICAL DATA SHEET – SIGN VINYL – CAST ETCHED GLASS KG15DEPM

Range of products consisting of an 80- μ m, very high performance, polymeric, cast, cadmium-free PVC, which is coated with a pressure-sensitive, acrylic adhesive. Matt etched glass surface finish.

FILM FEATURES:

	<u>Average values</u>	<u>Standard</u>
• Thickness (μ m):	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 « THE CAST by HEXIS » imprint
- Stable under hygrometric variations

ADHESIVE FEATURES:

(Average values measured at data sheet editing time)

	<u>Average values</u>	<u>Standard</u>
• 180° peel strength test (N/25 mm): after 20 minutes of application on glass	19	HEXFTM001
after 24 hours of application on glass	25	
• Initial tack (N/25 mm):	18	HEXFTM009
• Release (N/25 mm):	0.3	HEXFTM003
• Solvent resistance: the adhesive is resistant to most chemical agents (alcohol, petrol, diluted acids, oils and fuels).		

ADHESIVE:

- Solvent-based acrylic adhesive
- Immediate and permanent adhesion; suitable for wet application.

USER'S INSTRUCTIONS:

- Minimum application temperature recommended: +10 °C (+50 °F)

The minimum application temperature must be respected for both the ambient and substrate temperature. In a cold environment, the transfer tape should be left on longer before its removal because several days are required before achieving the final adhesion of the vinyl.

- Operating temperature range: from -40 °C to +90 °C (from -40 °F to +194 °F)
- Application to clean and 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 target surfaces in order to let the film properly adhere to the surface.

Cleaning of the glass surfaces only with soapy water.

- 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).
- The use of a transfer film or paper will allow you to firmly apply the squeegee on the entire surface of the graphics to be transferred.
- 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:

- 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.
- Heat cold surfaces before application so as to avoid condensation between the substrate and the self-adhesive film.
- 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 KGI5DEPM film, 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 KG15DEPM 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.

A Southern exposure at a 45° angle can reduce by half the durability of the film compared to the values written in the tables below.

Colours	Northern & Central European Climate	Mediterranean Climate	Tropical & Oceanic Climate	Desert Climate
KG15DEPM	7 years	6 years	5 years	4 years

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).

NOTES:

Because of 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 information released originates from laboratory measurements on a regular basis. However, it does not constitute a binding warranty. The seller is not held accountable for indirectly related damages beyond the replacement value of the purchased product. All specifications are subject to potential changes without prior notice. Updates of our specifications are automatically available on our website at www.hexis-graphics.com.