



## TECHNICAL DATA SHEET - PLOTTER VINYLs - CAST ETCHED GLASS KG15DEPM

Range comprising a 80- $\mu$ m, very high performance, polymeric, cast PVC, which is coated with a pressure-sensitive acrylic adhesive. Matt etched glass surface finish.

### **FILM FEATURES:**

	<u>Indicative values</u>	
• Thickness ( $\mu$ m):	80	
	<u>Average values</u>	<u>Standard</u>
• Tensile strength (N/25 mm):	min. 35	HEXNFX41021
• Elongation at break:	min. 100	HEXNFX41021
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 0.4	HEXRET001

### **LINER:**

- Silicone-coated Kraft paper 137 g/m<sup>2</sup>, with grey "THE CAST by 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):		HEXFTM001
after 20 minutes of application	18	
after 24 hours of application	24	
• Initial tack (N/25 mm):	21	HEXFTM009
• Release (N/25 mm):	0.3	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:**

- 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.*

- Operating temperature range: -40 °C to +90 °C (-40 °F to +194 °F).
- 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.***

- To facilitate application, HEXIS has several types of squeegees in its range of accessories, ranging from softer to harder (plastic or felt).
- The film or paper transfer tape enables you to press the squeegee firmly over the entire surface of the graphic to be transferred.
- 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.
- Heat cold surfaces before application so as to avoid condensation between the substrate and the self-adhesive film.
- The colour of the films is monitored by HEXIS to ensure a faithful reproduction of their tints. Nevertheless, in the case where your project requires the use of several rolls of one same colour reference, HEXIS recommend using a single batch number of this reference.
- For more information on the application method of KG15DEPM, please refer to the Application Guide 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 the KG15DEPM film and by natural weathering; the durations given are the periods during which the surface finish is expected to be free from any gradual reduction or modification.

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	Central European climate	Orbital Mediterranean climate	Tropical Oceanic climate	Desert Climate
KG15DEPM	7 years.	6 years.	5 years.	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, colour or even a slight dusting may appear.

**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).