



## TECHNICAL DATA SHEET - LAMINATE - PERMANENT ADHESIVE VWOOD

Film composed of a 130- $\mu$ m, transparent, structured, polymeric, calendered PVC, which is coated with a pressure-sensitive acrylic adhesive. Designed to be laminated on mass-coloured or digital printing films; it can also be directly applied to flat surfaces. Structured wood-look surface finish.

### **FILM FEATURES:**

	<u>Indicative value</u>	
• Thickness ( $\mu$ m):	130	
	<u>Average values</u>	<u>Standard</u>
• Tensile strength (N/25 mm):	min. 50	HEXNFX41031
• Elongation at break (%):	min. 100	HEXNFX41031
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 1	HEXRET001

### **LINER:**

- Silicone-coated Kraft paper 80 g/m<sup>2</sup>, 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 (N/25 mm):		HEXFTM001
after 20 minutes of application	16	
after 24 hours of application	19	
• 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, diluted acids, oils).

### **ADHESIVE:**

- Solvent-based acrylic adhesive.
- Immediate and permanent adhesion after 24 hours of contact.
- Dry application.

## **USER'S INSTRUCTIONS:**

- The VWOOD laminate is designed to be laminated on coloured films and provides your substrate with a wood-look finish.
- It can be used for the cold laminating of HEXIS digital printing films. It provides the graphics with a wood-look surface finish.
- The VWOOD laminate can be applied to all flat and smooth surfaces providing the substrate with a wood-look surface finish.
- The film can be cleaned by all conventional cleaning methods, using non-abrasive accessories, cleaning products or detergents.
- Recommended minimum application temperature: +10 °C (50 °F).
- Operating temperature range: -40 °C to +90 °C (-40 °F to +194 °F).
- 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 any coating or other of a HEXIS digital printing film, optimal drying time for the inks is:
  - 48 hours for a cast film.
  - 24 hours for a calendered film.
- After installation, the final surface aspect can be improved by heating the film to +60 °C (+140 °F) and by applying it using a ROLLRIV foam roller.
- For more information on the application method of the VWOOD film, please refer to the Application Guide on the "Professionals" pages, category "Laminates" on the site [www.hexis-graphics.com](http://www.hexis-graphics.com).

## **STORAGE:**

- Shelf life (before application):

The shelf life of this film is 1 year when stored upright in its original packaging in a dust-free environment at a temperature ranging from +15 °C to +25 °C (+59 °F to +77 °F) with relative humidity of 50 %.

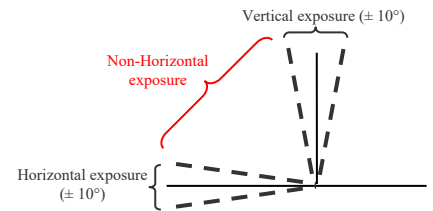
**DURABILITY:** (Central European climate)

- Vertical outdoor exposure:  
Without mechanical stress: up to 5\* years.  
With mechanical stress: depends on the type and frequency of the stresses.

\*Time during which the film retains a correct surface finish, from a conventional viewing distance. (A slight and gradual change in colour and gloss is natural and is an inevitable and natural phenomenon inherent in the natural breakdown of the materials).

Note: The durability indicated in this document:

- concerns only the lamination and not the finished visual or graphic.
- is inherent to an upright position of about  $\pm 10^\circ$  and the to the product's geographical exposure position. All other positions accentuate the climatic shocks and promote the appearance of an alteration of the gloss or even a slight dusting. Southern exposure, with a  $45^\circ$  inclination can divide the durability of the film by 2, and horizontal exposure by 2.8. Application to the vehicle bonnet is particularly severe, due to the horizontal exposure and the heating provided by the engine.
- is confirmed by UV ageing tests and by external vertical natural exposures.



- Vertical indoor exposure:  
up to 5 years (for surfaces or areas not subject to frequent handling or high visitor frequency).

*A film applied to surfaces exposed to mechanical stress will be subject to repeated abrasion which will more or less rapidly reduce its lifespan (change of appearance, peeling off, etc.).*

**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).