



## TECHNICAL DATA SHEET - LAMINATE - PERMANENT ADHESIVE VBRUSHED

Film composed of a 100- $\mu$ 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. Brushed aluminium surface finish.

### **FILM FEATURES:**

	<u>Indicative value</u>	
• Thickness ( $\mu$ m):	100	
	<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):	< 0.5	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	19	
after 24 hours of application	23	
• Initial tack (N/25 mm):	22	HEXFTM009
• Release: (N/25 mm):	0.4	HEXFTM003

- Resistance to solvents: the adhesive is resistant to most chemicals (alcohol, diluted acids, oils).

### **ADHESIVE:**

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

## **USER'S INSTRUCTIONS:**

- The VBRUSHED laminate is designed to be laminated on coloured films and provides your film substrate with a brushed aluminium surface finish.
- It can be used for the cold-laminating of HEXIS digital printing films printed with solvent, eco-solvent, latex or UV inkjet technology. It provides the graphics with an imitation wood surface finish.
- The VBRUSHED laminate can be applied to all flat and smooth surfaces providing the substrate with a brushed aluminium surface finish.
- The film can be cleaned by all conventional cleaning methods, using non-abrasive accessories, cleaning products or detergents.
- Minimum recommended application temperature: +10 °C (+50 °F).
- Operating temperature range: from -40 °C to +90 °C (-40 °F to +194 °F).
- In the case of an 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.
- For more information on the application method of the VBRUSHED 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 %.

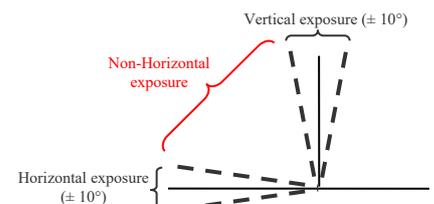
## **DURABILITY:** (Central European climate)

- Vertical outdoor exposure, upon substrate:  
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 a natural and inevitable phenomenon inherent in the natural breakdown of the materials).

Note: The durability indicated in this document:

- concerns only the laminate and not the finished visual or graphic.
- is inherent to an upright position of  $\pm 10^\circ$  and to the product's geographical exposure position. Any other position accentuates climatic influences and an alteration in gloss or colour, or even a slight dusting may appear. 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 heat from the engine.
- is confirmed by UV ageing tests and vertical natural outdoor weathering.



- Vertical indoor exposure, upon substrate:

up to 8 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 that will reduce more or less rapidly its lifespan (change of appearance, peeling off, etc.).*

*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 medium for each application.

The measuring methods for the standards quoted above served as the 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).