

## V650B

### PRODUCT DESCRIPTION:

Film composed of a 70- $\mu$ m calendered, monomeric PVC, which is coated with a pressure-sensitive acrylic adhesive. Glossy surface finish for cold laminating; mainly for mechanical protection purposes.

### FILM FEATURES:

|   |   |                              |
|---|---|------------------------------|
| • Thickness                             | (Indicative value)<br><b>70 <math>\mu</math>m</b> |                              |
| • Tensile strength                      | (Average values)<br><b>min. 30 N/25 mm</b>        | Method<br><b>HEXNFX41021</b> |
| • Elongation at break                   | (Average values)<br><b>min. 80 %</b>              | Method<br><b>HEXNFX41021</b> |
| • Shrinkage 168 hours at 70 °C (158 °F) | (Average values)<br><b>&lt; 1.2 mm</b>            | Method<br><b>HEXRET001</b>   |

### LINER:

- Silicone-coated Kraft paper 87 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)

|   |  |                            |
|---|--|----------------------------|
| • Peel strength test at 180°; Measurement support glass                       | (Average values)                       | Method                     |
| after 20 minutes of application   | <b>15 N/25 mm</b>                      | <b>HEXFTM001</b>           |
| after 24 hours of application   | (Average values)<br><b>18 N/25 mm</b>  | Method<br><b>HEXFTM001</b> |
| • Initial tack  | (Average values)<br><b>20 N/25 mm</b>  | Method<br><b>HEXFTM009</b> |
| • Release   | (Average values)<br><b>0.1 N/25 mm</b> | Method<br><b>HEXFTM003</b> |
| • The adhesive is resistant to most chemicals (alcohol, diluted acids, oils). |  |                            |

### ADHESIVE:

- Solvent-based acrylic adhesive.
- Immediate and permanent adhesion.

### USER'S INSTRUCTIONS:

- Recommended minimum application temperature: +10 °C to +35 °C (+50 °F to +95 °F)
- Operating temperature range: -30 °C to +60 °C (-22 °F to +140 °F)
- UV protection.
- Resistance against mechanical stress
- Using this protective film also enables you to modify the products's visual aspect by providing it with a glossy surface finish.

*A film applied to surfaces exposed to frequent mechanical stress will be subject to repeated abrasion that will reduce more or less rapidly its lifespan (change of the film's and/or the complex's appearance, peeling off, etc.).*

- When using this protective laminate for water-based inkjet prints, it must be applied with a 2-cm (0.79-in.) extra margin at the edges.
- Depending on the type of surface to be protected: when applied to paintworks or «non dry» inkjet prints, the V650 laminate may show signs of shrinkage. To avoid such alterations or for medium-term applications, we strongly recommend the use of our V700 laminate.
- In the case of an already painted substrate, apply to undamaged original paintwork only. If the paintwork is not original and/or damaged, the application and the removal are at the judgement and risk of the installer.



## STORAGE:



Storage period before use  
**1 year**



Storage temperature  
**+15 °C to +25 °C (+59 °F to +77 °F)**



Relative humidity during storage  
**with relative humidity of 50 %**



Storage area  
**in a dust-free environment**



Storage method before use  
**in its original packaging**

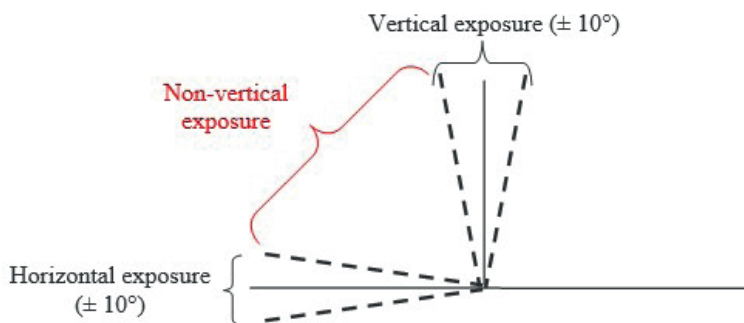


Orientation of rolls before use  
**vertically**

## DURABILITY: (Central European climate)

- Vertical outdoor exposure:  
Without mechanical stress: up to 2\* years.

\*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 in an upright position of  $\pm 10^\circ$  and in 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 may 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: up to 4 years (for surfaces or areas subject to moderate handling or visitor frequency).

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 of the published information is based on measurements regularly performed in the laboratory. The published information 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).