

PC300

PRODUCT DESCRIPTION:

30- μ m, transparent, UV-treated polyurethane film, which is coated with a pressure-sensitive acrylic adhesive. Product developed for cold-laminating HEXIS digital printing films. This ultra-soft and ultra-conformable laminate, specially suitable for application to 3D surfaces, protects your prints by providing them with enhanced mechanical resistance to abrasion compared with standard PVC laminates. Glossy surface finish.

FILM FEATURES:

• Thickness	(Indicative value) 30 μm	
• Tensile strength	(Average values) min. 50 N/25 mm	Method HEXNFX41021
• Elongation at break	(Average values) min. 200 %	Method HEXNFX41021
• Shrinkage 168 hours at 70 °C (158 °F)	(Average values) < 0.4 mm	Method HEXRET001
• UV absorption	(Average values) &#8805; 90	Method NF EN 410

LINER:

- 75- μ m, silicone-coated PET liner.
- Stable under hygrometric variations

ADHESIVE PROPERTIES:

(Measured average values at publication of the technical data sheet)

• Peel strength test at 180°; Measurement support glass		
after 20 minutes of application	(Average values) 9 N/25 mm	Method HEXFMT001
after 24 hours of application	(Average values) 11 N/25 mm	Method HEXFMT001
• Initial tack	(Average values) 9 N/25 mm	Method HEXFMT009
• Release	(Average values) 0.3 N/25 mm	Method HEXFMT003

ADHESIVE:

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

USER'S INSTRUCTIONS:

- Recommended minimum application temperature: +10 °C (+50 °F)
- Operating temperature range: -40 °C to +90 °C (-40 °F to +194 °F)
- Protection of digital printing films.
- UV protection.
- During the lamination, make sure that the tensions and speeds of each film (digital printing film and PC300) are the same. The tension of the laminate should be kept as low as possible during the lamination process in order to minimise the elongation of the PC300 film.
- For film cleaning, only use a non-abrasive sponge or soft cloth with soapy water.
- In the case of an already painted substrate, the compound 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 lamination, 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.

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



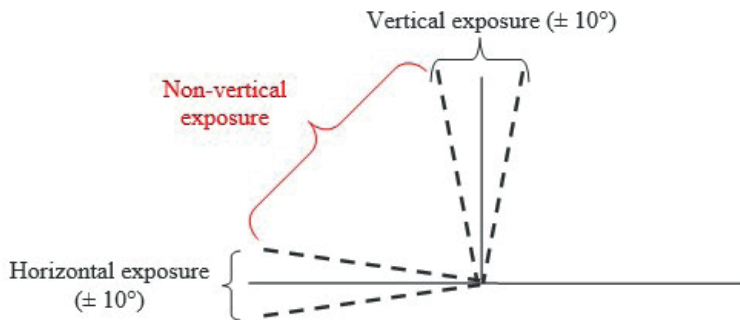
Storage method before use
in its original packaging



Orientation of rolls before use
vertically

DURABILITY: (Central European climate)

- Vertical outdoor exposure:
 - Without mechanical stress: Up to 7* 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 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° 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 9 years (on 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.

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.