



TECHNICAL DATA SHEET - LAMINATE - PERMANENT ADHESIVE PCCARBON

Film composed of a 125- μm , clear, structured, cast PVC, which is coated with a pressure-sensitive acrylic adhesive. Designed to be cold laminated on mass-coloured or digital printing films; it can also be directly applied to smooth 2D or moderated 3D surfaces. Glossy carbon effect.

FILM FEATURES:

	<u>Indicative value</u>	
• Thickness (μm):	125	
	<u>Average values</u>	<u>Standard</u>
• Tensile strength (N/25 mm):	min. 15	HEXNFX41031
• Elongation at break (%):	min. 100	HEXNFX41031
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 0.6	HEXRET001

LINER:

- Silicone-coated PE paper 145 g/m², 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	24	
after 24 hours of application	27	
• Initial tack (N/25 mm):	26	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.
- Dry application.

USER'S INSTRUCTIONS:

- UV-proof.
- For modifying/improving/protecting:
 - a plotter or wrap vinyl: only apply the PCCARBON film to unstructured films using a cold laminator or via direct application. The complex can be cut using a plotter. After cutting, it is possible to transfer with the HEX860 tape.
 - a digital printing film: only apply the PCCARBON film to solvent, eco-solvent or latex inkjet printed films.
 - an already painted substrate: only apply 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.
- Recommended minimum application temperature: +10 °C (+50 °F).
- Operating temperature range: -40 °C to +90 °C (-40 °F to +194 °F).
- For film cleaning, only use a non-abrasive sponge or soft cloth and soapy water.

OPERATING RECOMMENDATIONS:

- Before applying this laminate to a HEXIS digital printing film, which has been printed with solvent inks, it is recommended to respect the following optimal drying time for the inks:
 - 48 hours if the printed film is cast,
 - 24 hours if the printed film is calendered.
- Given the strong relief of the PCCARBON film, some bubbles may appear underneath the film during lamination. The appearance of the compound can be improved by optimising the lamination parameters:
 - Ensure maximum pressure between the lamination cylinders.
 - Set a slow lamination speed.

Advice: In all cases, read the laminating machine's instructions carefully and carry out a preliminary application trial.

- 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.

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:
Up to 3 years upon substrate.

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.