



TECHNICAL DATA SHEET - DIGITAL PRINTING - TRANSPARENT FILM - PERMANENT ADHESIVE
CLEARWRAP

The film is composed of 50- μ m, transparent, cast PVC, which is coated with a pressure-sensitive, acrylic adhesive. The adhesive is micro-structured for faster application and air evacuation. Specially designed for full vehicle wraps and heavily deformed surfaces. Intended for solvent, eco-solvent, latex and UV inkjet printing. It has a glossy surface finish.

FILM FEATURES:

	<u>Indicative values</u>	
• Thickness (μ m):	50	
• Total thickness of the product (μ m):	250	
	<u>Average values</u>	<u>Standard</u>
• Total weight of the product (g/m^2):	255	HEXGSM001
• Tensile strength (N/25mm):	min. 15	HEXNFX41021
• Elongation at break (%):	min. 100	HEXNFX41021
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 0.5	HEXRET001

GENERAL PRINTER COMPATIBILITES:

	Solvent	Eco-solvent	Latex	UV
CLEARWRAP	✓	✓	✓	✓

LINER:

- Silicone-coated and embossed PE paper 165 g/m^2 .
- 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	11	
after 24 hours of application	13	
• Initial tack (N/25 mm):	13	HEXFTM009
• Release (N/25 mm):	0.2	HEXFTM003
• Resistance to solvents: the adhesive is resistant to most chemicals (alcohol, diluted acids, oils).		

ADHESIVE:

- Solvent-based acrylic adhesive.
- Immediate adhesion; optimal after 24 hours of contact.

USER'S INSTRUCTIONS:

- Touch-dry after less than 15 minutes depending on printer used.
- Recommended minimum application temperature: +10 °C (+50 °F).

Both the ambient and the substrate temperature must comply with the minimum application temperature.

- Operating temperature range (outdoors): -40 °C to +90 °C (-40 °F to 194 °F).
- Conformable product, particularly suitable for vehicles.
- Apply the film:
 - to a surface that is clean and free from any traces of contaminants (dust, grease, wax, silicone, etc.).
 - in a clean environment without excessive dust.

Particular care must be taken to clean the angles and periphery of the target surfaces.

- Dry or wet application method.

- Dry application method:

Thanks to its liner structure, the CLEARWRAP film can easily be repositioned on the substrate.

- Handle the film with clean hands or wear lint-free gloves after having removed the liner.
- Apply the film evenly with a squeegee for optimal adhesion of the film to the substrate.

HEXIS recommend carrying out an application test to check the final result. When the film is applied to dark surfaces, it is possible that, in some cases traces of the application will be visible.

- Wet application method with soapy water only:

- Always remove the liner immediately before application, and apply the film right after as instructed during the HEXIS training courses.
- Apply even pressure to the entire graphic using a squeegee in order to properly expel the application liquid.

HEXIS recommend carrying out an application test on a heavily deformed surface to ensure the good adhesion of the film after removal of the application liquid.

- Adhesion to glass, steel, aluminium, PVC, melamine, etc. except grain substrates or substrates coated with acrylic paint.
- In the case of painted substrates, 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.
- To clean the film, use a non-abrasive sponge or soft cloth with soapy water.

OPERATING RECOMMENDATIONS:

- Optimal drying time for the inks before laminating, coating or further processing is 48 hours minimum.
- The surface finish of your printings may be modified/improved/protected by applying the PC50MICP2 laminate.
- For more information on the application method of CLEARWRAP, please refer to its Application Guide under the "Professionals" heading, in the "Digital printing media" category on our website www.hexis-graphics.com.

STORAGE:

- Shelf life (before use):

The shelf life of this film is one year when stored in its unopened original packaging at a temperature ranging from 15 °C to 25 °C (+59 °F to +77 °F) with relative humidity between 30 % and 70 %.

DURABILITY: (Central European climate)

- Vertical outdoor exposure:
Unprinted: 8 years;
Printed and laminated:
- PC50MICP2: 5 years;
Printed: 2 years.

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 absolute suitability of the medium for each specific 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.