



## TECHNICAL DATA SHEET - DIGITAL PRINTING - OPACIFIED PVC - PERMANENT ADHESIVE

**THE I90EVO**

Film composed of a 50- $\mu$ m cast PVC, which is coated with a pressure-sensitive acrylic adhesive. Micro-structured adhesive for faster application and air evacuation. For solvent, eco-solvent, latex and UV inkjet printing. Glossy surface finish.

**FILM FEATURES:**

	<u>Indicative values</u>	
• Thickness ( $\mu$ m):	50	
• Total thickness of the product ( $\mu$ m):	235	
	<u>Average values</u>	<u>Standard</u>
• Total weight of the product ( $g/m^2$ ):	240	HEXGSM00I
• Tensile strength (N/25 mm):	min. 15	HEXNFX4I02I
• Elongation at break (%):	min. 70	HEXNFX4I02I
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 0.3	HEXRET00I
• Opacity (%):	> 99.5	HEXOPA00I

**GENERAL PRINTER COMPATIBILITES:**

	<b>Solvent</b>	<b>Eco-solvent</b>	<b>Latex</b>	<b>UV</b>
<b>THE I90EVO</b>	✓	✓	✓	✓

**LINER:**

- Silicone-coated and embossed PE paper 160  $g/m^2$ .
- 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):		HEXFTM00I
after 20 minutes of application	12	
after 24 hours of application	13	
• Initial tack (N/25 mm):	7	HEXFTM009
• Release (N/25 mm):	0.3	HEXFTM003
• Resistance to solvents: the adhesive is resistant to most chemicals (alcohol, diluted acids, oils).		

**ADHESIVE:**

- Solvent-based acrylic adhesive.
- Grey colour of the adhesive-coated side: homogenous.
- Structured adhesive for faster application and air evacuation.
- Immediate and permanent adhesion, optimal after 24 hours of contact.

**USER'S INSTRUCTIONS:**

- Touch-dry after less than 10 minutes depending on printer used.
- Recommended minimum application temperature: +10 °C (+50 °F).
- Operating temperature range (outdoors): from -40 °C to +90 °C (-40 °F to +194 °F).
- Dry application.

*It is mandatory to apply the so-called "dry" application method with the THE190EVO film, due to its TAKE HEAT EASY liner. This technology means you can very easily reposition the film on the substrate during application, while not excluding the squeegeeing step for optimal adhesion of the film to the substrate.*

- Conformable product, particularly suitable for vehicles.
- Adhesion to glass, steel, aluminium, PVC, melamine, etc. except grain substrates or substrates coated with acrylic paint.
- 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 all coatings, optimal drying time for the inks is 48 hours minimum.
- The surface finish of your printing may be modified/improved/protected by applying the PC190 laminate. Other laminates are also compatible (PC500, structured laminates, etc.).
- For more information on the application method of the THE190EVO film, please refer to the Application Guide on the "Professionals" pages, category "Digital printing media" on our 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 unopened in its 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: 10 years.  
Printed and laminated: PC190: 4 years.  
Printed: 2 years.

**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).