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

THE190EVO

Film composed of 50-µm 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. It has a glossy surface finish.

FILM FEATURES:

	Indicative values	
• Thickness (µm):	50	
• Total thickness of the product (µm):	235	
	Average values	**Standard**
• Total weight of the product (g/m²):	240	HEXGSM001
• Tensile strength (N/25 mm):	min. 15	HEXNFX41021
• Elongation at break (%):	min. 70	HEXNFX41021
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 0.3	HEXRET001
• Opacity (%):	> 99.5	HEXOPA001

GENERAL PRINTER COMPATIBILITES:

	Solvent	Eco-solvent	Latex	UV
THE190EVO	✓	✓	✓	✓

LINER:

- Silicone-coated and embossed PE paper 160 g/m².
- Stable under hygrometric variations.

ADHESIVE PROPERTIES:

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

	Average values	Standard
• Peel strength test 180° on glass (N/25 mm):		HEXFTM001
after 20 minutes of application	10	
after 24 hours of application	12	
• Initial tack (N/25 mm):	5	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.
- 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): -40 °C to +90 °C (-40 °F to +194 °F).
- Dry application method.

It is mandatory to use 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 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.

OPERATING RECOMMENDATIONS:

- Optimal drying time for the inks before laminating or further processing is 48 hours minimum.
- The surface finish of your printings 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.

STORAGE:

- Shelf life (before application):

  The shelf life of this film is 1 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: 10 years.
  Printed and laminated:
    - PC500: 5 years;
    - PC190: 4 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.