TECHNICAL DATA SHEET - DIGITAL PRINTING - MICRO-PERFORATED PVC FILM

MICRO2

Film composed of a 165-µm micro-perforated, colaminated (black/white), polymeric PVC, which is coated with a pressure-sensitive acrylic adhesive. For solvent, eco-solvent and latex inkjet printing.

FILM FEATURES:

	Indicative values	
• Thickness (µm):	165	
• Total thickness of the product (µm):	300	
• Micro-perforation (%):	32	
	Average values	**Standard**
• Total weight of the product (g/m²):	295	HEXGSM001
• Weight of micro-perforated adhesive-coated film (g/m²):	160	HEXGSM001
• Tensile strength (N/25 mm):	min. 25	HEXNFX41021
• Elongation at break (%):	min. 40	HEXNFX41021
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 0.4	HEXRET001

GENERAL PRINTER COMPATIBILITIES:

	Solvent	Eco-solvent	Latex
MICRO2	✓	✓	✓

LINER:

- Non-perforated and unprinted silicone-coated Kraft paper 140 g/m².

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	9	
after 24 hours of application	13	
• Initial tack (N/25 mm):	11	HEXFTM009
• Release (N/25 mm):	0.6	HEXFTM003

ADHESIVE:

- Pressure-sensitive colourless acrylic adhesive (non-repositionable).
- Immediate film adhesion, optimal after 24 hours of contact.
- Resistance to solvents: the adhesive is resistant to most chemicals (alcohol, diluted acids, oils).

USER'S INSTRUCTIONS:

- UTAC (Technical Union for the Automobile, Motorcycle and Cycle Industries) protocoll no. 04/08680 (according to Appendix 3 of the Geneva Regulation R43).
- Do not heat beyond +35 °C (+95 °F) during the printing process.
- Touch-dry after less than 15 minutes depending on printer used.
- Apply to non-immersed, dry, clean and untreated mineral glass.
- Prior to application, clean the substrate with solvent- and ammonia-free detergents only.
- Leave a 5-mm space between the window sealings and the edge of the MICRO2 film. Never apply the film directly to the window sealings.
- Minimum application temperature: +10 °C (59 °F).
- Operating temperature range: -10 °C to +50 °C (59 °F to +86 °F).
- It is possible to peel off the film from the substrate. Remove residual adhesive if necessary.

Caution: This micro-perforated film cannot be used on emergency exits of public passenger transport vehicles *(Appendix 5 of the Geneva Regulation R43 or 92/22/CEE directive)*. **The customer is strongly advised to contact the competent local authorities who will validate the conformity of the vehicle with the road traffic regulations in effect.**

OPERATING RECOMMENDATIONS:

- For any coating and other, optimal drying time for the inks is 24 hours minimum.
- On flat substrates, it is recommended to laminate with an adhesive-coated, extra-clear, cold laminating film (PG836), applied using a laminator.

DO NOT USE heat-sealing (heat encapsulating) film.

- For vehicle rear windows (slightly curved), we recommend using our "cast" cold laminate PC50MICP2.
- The MICRO2 film's adhesion at edges and corners can be reinforced with our self-adhesive edge sealing tapes "FPG836" for flat surfaces, "FPC50MICP2" for slighty curved substrates or our sealing varnish VR7077 in case of extreme mechanical stress.

The sealing must be done by superposing the tape or varnish between the MICRO2 film and the glass substrate while avoiding any contact with the sealings.

- For more information on the application method of the MICRO2 film, please refer to its Application Guide on the "Professionals" pages, category "Digital printing media" on our website www.hexis-graphics.com.

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:

  Unprinted: 4 years.

  Printed and laminated: 3 years.

  Removability: up to 6 months without significant residues.