



## TECHNICAL DATA SHEET - DIGITAL PRINTING - MICRO-PERFORATED PVC FILM MICRO2

Film composed of a 165- $\mu$ m 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:**

	<u>Indicative values</u>	
• Thickness ( $\mu$ m):	165	
• Total thickness of the product ( $\mu$ m):	300	
• Micro-perforation (%):	32	
	<u>Average values</u>	<u>Standard</u>
• Total weight of the product ( $\text{g}/\text{m}^2$ ):	295	HEXGSM001
• Weight of micro-perforated adhesive-coated film ( $\text{g}/\text{m}^2$ ):	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 COMPATIBILITES:**

	<b>Solvent</b>	<b>Eco-solvent</b>	<b>Latex</b>
<b>MICRO2</b>	✓	✓	✓

### **LINER:**

- Non-perforated and unprinted silicone-coated Kraft paper 140  $\text{g}/\text{m}^2$ .

### **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): after 20 minutes of application	9	HEXFTM001
after 24 hours of application	13	
• Initial tack (N/25 mm):	10	HEXFTM009
• Release (N/25 mm):	0.4	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) protocol no. 04/08680 (according to Appendix 3 of the Geneva Regulation R43).
- 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 (+50 °F).
- Operating temperature range: -10 °C to +50 °C (+14 °F to +122 °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 all coatings, 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 slightly curved substrates or our sealing varnish VR7077 in case of extreme mechanical stress.

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

- 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](http://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.

*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](http://www.hexis-graphics.com).*

**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).