



## TECHNICAL DATA SHEET - DIGITAL PRINTING - PERMANENT ADHESIVE HXR30IEPS

90- $\mu$ m polypropylene film which is coated with a super-reinforced, pressure-sensitive acrylic adhesive. Due to its super-reinforced adhesive, this product is particularly recommended for applications to slightly rough walls (e.g. concrete). For short-term applications. Film intended for UV inkjet printing; it does not require a protective lamination. Satin surface finish. The unprinted film is B-s2, d0 classified according to the standard for fire behaviour EN13501-1:2007+A1:2018 (protocol no.: EFR-20-000993A).

**What are the advantages of PVC-free films?** These products reduce the environmental impact; they consume less energy in the production of the elements that go into their composition; they do not release volatile organic compounds during this phase, nor do they release acid gases (hydrogen chloride) in the event of combustion or solar deterioration.

### **FILM FEATURES:**

	<u>Indicative values</u>	
• Thickness ( $\mu$ m):	90	
• Total thickness of the product ( $\mu$ m):	290	
	<u>Average values</u>	<u>Standard</u>
• Total weight of the product ( $g/m^2$ ):	270	HEXGSM001
• Tensile strength (N/25 mm):	min. 10	HEXNFX41021
• Elongation at break (%):	min. 100	HEXNFX41021
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 0.4	HEXRET001

### **GENERAL PRINTER COMPATIBILITIES:**

	<b>UV</b>
<b>HXR30IEPS</b>	✓

### **LINER:**

- Silicone-coated and embossed PE paper.
- 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	24	
after 24 hours of application	27	
• Initial tack (N/25 mm):	21	HEXFTM009
• Release (N/25 mm):	0.1	HEXFTM003

Average valuesStandard**On polypropylene**

- |   |     |           |
|---|-----|-----------|
| • Peel strength test 180° (N/25 mm):  |     | HEXFTM001 |
| after 20 minutes of application   | 18  |           |
| after 24 hours of application   | 18  |           |
| • Initial tack (N/25 mm):   | 17  | HEXFTM009 |
| • Release (N/25 mm):  | 0.1 | HEXFTM003 |
| • Resistance to solvents: the adhesive is resistant to most chemicals (alcohol, diluted acids, oils). |     |           |

**ADHESIVE:**

- Adhesive suitable for applications to irregular surfaces (e.g. concrete).
- Special low energy surface adhesive (polypropylene, polyethylene, etc.).
- Solvent-based acrylic adhesive.
- Immediate and permanent adhesion.

**USER'S INSTRUCTIONS:**

- Laminating the film after printing is not recommended.

*HEXIS cannot be held liable for any damage caused to the printed film by laminating the latter.*

- The unprinted product, which is not protected with a laminate, is B-s2, d0 classified according to the standard for fire behaviour EN13501-1:2007+A1:2018 (protocol no.: EFR-20-000993A).
- Minimum application temperature recommended: +10 °C (+50 °F), acceptable down to -1 °C (30 °F).
- Operating temperature range (outdoors): -40 °C to +90 °C (-40 °F to +194 °F).
- Dry application.

*It is mandatory to use the so-called "dry" application method with the HXR30/IEPS film, due to its HEX'PRESS liner. This technology means you can easily reposition the film on the substrate during application, while not excluding the squeegeeing step for optimal adhesion of the film to the substrate.*

- For application to irregular surfaces, the substrate must be cleared of all traces of dust to ensure optimum adhesion of the film.
- Very good adhesion to slightly rough surfaces (e.g. concrete), except chalky or damaged substrates (cracks, holes, humidity or condensation spots, excess texture) or substrates coated with acrylic paints...

**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: 6 months according to the substrate and type of exposure.

*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).