



## TECHNICAL DATA SHEET - PLOTTER VINYLs - SMARTAC EVOLUTION A5000 Series

A 60- $\mu\text{m}$ , cast, high-performance, polyurethane film, which is coated with a pressure-sensitive, solvent-based acrylic adhesive. Glossy surface finish.

### **FILM FEATURES:**

	<u>Indicative value</u>	
• Thickness ( $\mu\text{m}$ ):	60	
	<u>Average values</u>	<u>Standard</u>
• Tensile Strength (N/25 mm):	min. 15	HEXNFX41021
• Elongation at break (%):	min. 90	HEXNFX41021
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 0.8	HEXRET001

### **LINER:**

- Silicone-coated Kraft paper 137 g/m<sup>2</sup> with grey "THE CAST by HEXIS" print.
- 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	11	
after 24 hours of application	13	
• Initial tack (N/25 mm):	14	HEXFTM009
• Release (N/25 mm):	0.1	HEXFTM003

### **ADHESIVE:**

- Solvent-based, acrylic adhesive.
- Immediate and permanent adhesion, suitable for wet application to flat surfaces only.

**USER'S INSTRUCTIONS:**

- Recommended minimum application temperature: +7 °C (+45 °F).
- Operating temperature range: -40 °C à +90 °C (-40 °F to +194 °F).
- Possibility of transferring the film using the HEX905, HEX910 or HEX915 tapes.

*In order to maintain a uniform appearance of the film and therefore avoid demarcations (whitening), it is recommended to not stretch it beyond 20 % of elongation. As they are more sensitive to elongation, the glossy metallised films must only be applied to flat or 2D surfaces, without stretching them.*

- 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:**

- The colour of the films is controlled by HEXIS in order to ensure faithful reproduction of their colour tints. Nevertheless, in the case that your project requires the use of several rolls of the same colour reference, HEXIS recommend using only a single batch number of each reference.
- For more information on the application method of SMARTAC EVOLUTION films, please refer to the "Application Guide" on the "Professionals" pages, on our website [www.hexis-graphics.com](http://www.hexis-graphics.com).

**STORAGE:**

- Shelf life (before application):

The shelf life of this film is 2 years 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: up to 10 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](http://www.hexis-graphics.com).*

**CERTIFICATIONS:**

- This product is B-s1, d0 classified according to the European standard EN13501-1:2007: Fire classification of construction products and building elements (protocol no. EFR-19-002609).

**NOTES:**

Due to the great variety of substrates and the growing number of new applications, the installer must check the absolute suitability of the medium for each specific 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 of the published information is based on measurements regularly performed in the laboratory. The published information 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).