



## TECHNICAL DATA SHEET - PLOTTER VINYLs - ECOTAC E 3000 Series

Range comprising of a 3.15-mil (0.08-mm), calendered, monomeric PVC, which is coated with a pressure-sensitive, acrylic adhesive. Matt or glossy surface finish.

### FILM FEATURES:

	<u>Indicative value</u>	
• Thickness:	3.15 mil 0.08 mm	
	<u>Average values</u>	<u>Standard</u>
• Tensile strength:	min. 8.85 lb./in. min. 40 N/25mm	HEXNFX41021
• Elongation at break:	min. 100 %	HEXNFX41021
• Shrinkage 168 hours at 158 °F (70 °C):	< 0.031 inch < 0.8 mm	HEXRET001

### LINER:

- 92# silicone-coated Kraft paper with blue 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>
180° peel strength test on glass		HEXFTM001
after 20 minutes of application	3.1 lb./in. 14 N/25mm	
after 24 hours of application	3.98 lb./in. 18 N/25mm	
Initial tack	3.54 lb./in. 16 N/25mm	HEXFTM009
Release	0.022 lb./in. 0.1 N/25mm	HEXFTM003

- Resistance to solvents: the adhesive is resistant to most chemicals (alcohol, petrol, diluted acids, oils, fuels).

### ADHESIVE:

- Solvent-based acrylic adhesive.
- Immediate and permanent adhesion; suitable for wet application.

**USER'S INSTRUCTIONS:**

- Minimum recommended application temperature: +50 °F (+10 °C)
- Operating temperature range: -40 °F to +194 °F (-40 °C to +90 °C).
- In the case of 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.

**STORAGE:**

- Shelf life (before application):  
The shelf life of this film is 2 years when stored unopened in its original packaging at a temperature ranging from +59 °F to +77 °F (+15 °C to +25 °C) with relative humidity between 30 % and 70 %.

**DURABILITY:**

- Vertical exposure on flat surfaces:

The pigmentation (color) of the PVC affects the stability duration of the dyes. An estimate of such a durability is confirmed by accelerated UV aging tests performed on the ECOTAC films and by outdoor weathering.

Dominant color	Max. indicative durability (years) <sup>(1)</sup>
White, Black	6
Colors, other tints	5
Metallic colors	4
Color with red, yellow / orange tendency, E3ELE Electric Blue. Clear.	2

- The durabilities indicated below are obtained particularly in vertical ( $\pm 10^\circ$ ) outdoor exposure. The conditions of durability indicated in Chart I are inherent to this position up to a few degrees.
- Other positions accentuate climatic influences and an alteration in gloss, color or even a slight dusting may appear. Application to the vehicle bonnet is particularly severe, due to the horizontal exposure and the heating provided by the engine.

**NOTES:**

Due to the great variety of substrates and the growing number of new applications, the installer must check the suitability of the media for each application. The measuring methods for the standards quoted above served as 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).