



TECHNICAL DATA SHEET – SIGN VINYL – ECOTAC E 3000 Series

Range of products consisting of an 80- μ m, cadmium-free, monomeric, calendered PVC, which is coated with a pressure-sensitive, acrylic adhesive. Matt or gloss surface finish.

FILM FEATURES:

	<u>Average values</u>	<u>Standard</u>
• Thickness (μ m):	80	
• Tensile strength (N/25 mm):	min. 40	HEXNFX41021
• Elongation at break (%):	min. 100	HEXNFX41021
• Shrinkage (mm) after 168 hours at 70 °C (158 °F):	< 0.8	HEXRET001

LINER:

- Silicone-coated kraft paper of 137 g/m², with blue HEXIS imprint
- Stable under hygrometric variations

ADHESIVE FEATURES:

(Average values measured at data sheet editing time)

	<u>Average values</u>	<u>Standard</u>
• 180° peel strength test on glass (N/25 mm): after 20 minutes of application	16	HEXFTM001
after 24 hours of application	20	
• Initial tack (N/25 mm):	17	HEXFTM009
• Release (N/25 mm):	0.2	HEXFTM003
• Solvent resistance: the adhesive is resistant to most chemical agents (alcohol, petrol, diluted acids, oils and fuels).		

ADHESIVE:

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

USER'S INSTRUCTIONS:

- Recommended minimum application temperature: +10 °C (+50 °F)
- Operating temperature range: from -40 °C to +90 °C (from -40 °F to +194 °F)
- In the case of already painted substrates, self-adhesive media must only be applied onto undamaged original paintwork. If the paintwork is not the original and/or is damaged, the application and the removal are at the installer's own judgement and own risk.

STORAGE:

- Shelf life (before application):

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

DURABILITY: (Vertical exposure on flat surfaces)

The colour pigments of the PVC influence the stability duration of colourings. These durabilities are obtained from ageing tests performed on ECOTAC E3000 films through UV rays and outdoor exposure; the durations indicated below are those from which a gradual change or impairment of the appearance is noticeable.

These results are obtained from vertical outdoor exposure. The stated durability conditions are inherent to this position up to some degrees. Any other position accentuates the climatic impacts and may further the appearance of gloss and colour alteration, and even a slight dusting phenomenon.

A south-facing exposure at a 45° angle can reduce by half the durability of the ECOTAC E3000 films compared to the values written in the tables below.

Dominant Colour	Indicative durability ⁽²⁾ Vertical exposure (±10°) Central Europe climate
White, Black	5 years
Colours / Metallic / Clear	Up to 5 years upon colour

Colour Range I: White, clear, black

Dominant Colour	Colour Name	Code	Durability (Years)			
			Northern & Central European Climate	Mediterranean Climate	Tropical & Oceanic Climate	Desert Climate
Black & White	Black	E3889	5	5	4	4
	White	E3829	5	5	4	4
Clear	Clear	E3899	1	1	1	1

Colour Range 2: Colours

Dominant Colour	Colour Name	Code	Durability (Years)			
			Northern & Central European Climate	Mediterranean Climate	Tropical & Oceanic Climate	Desert Climate
Yellow & Orange	Light Yellow	E3116	2	2	1	1
	Intense Yellow	E3110	2	2	1	1
	Dark Yellow	E3123	2	2	1	1
	Orange	E3151	2	2	1	1
Red	Amber	E3179	3	3	2	2
	Light Red	E3485	2	2	1	1
	Dark Red	E3186	2	2	1	1
	Burgundy	E3505	2	2	1	1
Pink & Violet	Fuchsia	E3220	5	5	4	4
	Purple	E3527	4	3	3	2
Blue	Marina Blue	E3281	4	3	3	2
	Bosphore Blue	E3280	4	3	3	2
	Electric Blue	E3ELE	1	1	1	1
	Dark Blue	E3286	4	3	3	2
	Permanent Blue	E3294	5	5	4	4
	Royal Blue	E3293	4	3	3	2
	Continental Blue	E3300	4	3	3	2
	Process Blue	E3PRO	3	3	2	2
	Medium Blue	E3298	5	5	4	4
	Light Blue	E3297	4	3	3	2
	Mediterranean Blue	E3320	5	5	4	4

Dominant Colour	Colour Name	Code	Durability (Years)			
			Northern & Central European Climate	Mediterranean Climate	Tropical & Oceanic Climate	Desert Climate
Green	Lime Green	E3376	2	2	1	1
	Light Green	E3360	2	2	1	1
	Medium Green	E3362	2	2	1	1
	Permanent Green	E3340	3	3	2	2
	Nenuphare Green	E3348	3	3	2	2
	Dark Green	E3349	3	3	2	2
	Racing Green	E3336	4	3	3	2
	Bottle Green	E3357	4	3	3	2
Beige & Brown	Beurre	E3155	4	3	3	2
	Brown	E3476	2	2	1	1
Grey	Dark Grey	E3444	5	5	4	4
	Medium Grey	E3430	5	5	4	4

Colour Range 3: Metallic

Dominant Colour	Colour Name	Code	Durability (Years)			
			Northern & Central European Climate	Mediterranean Climate	Tropical & Oceanic Climate	Desert Climate
Metallic	Gold	E3871	2	2	1	1
	Silver	E3877	2	2	1	1

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.