HXONE Serie

PRODUCT DESCRIPTION:

Range of products composed of a 100-µm to 110-µm (upon product code), very high-performance, multi-layered, cast film, which is coated with a pressure-sensitive, solvent-based acrylic adhesive. Structured adhesive for faster application and air evacuation. Specially designed for full vehicle wraps and heavily deformed surfaces. Super glossy surface finish.

FILM FEATURES:

• Thickness	(Indicative value) **from 100 µm (3.9 mil) to 110 µm (4.3 mil)**	
• Tensile strength	(Average values) **min. 15 N/25 mm**	Method **HEXNFX41021**
• Elongation at break	(Average values) **min. 90 %**	Method **HEXNFX41021**
• Shrinkage 168 hours at 70 °C (158 °F)	(Average values) **< 0.5 mm**	Method **HEXRET001**

LINER:

- Transparent PET film, surface protection.
- Silicone-coated and embossed PET liner of 150 g/m².
- Stable under hygrometric variations.

ADHESIVE PROPERTIES:

(Measured average values at publication of the technical data sheet)

• Peel strength test at 180° ; Measurement support glass		
after 20 minutes of application	(Average values) **12 N/25 mm**	Method **HEXFTM001**
after 24 hours of application	(Average values) **13 N/25 mm**	Method **HEXFTM001**
• Initial tack	(Average values) **9 N/25 mm**	Method **HEXFTM009**
• Release	(Average values) **0.2 N/25 mm**	Method **HEXFTM003**

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

ADHESIVE:

- Solvent-based acrylic adhesive.
- Structured adhesive for faster application and air evacuation.
- Immediate and permanent adhesion, optimal after 24 hours of contact.

USER'S INSTRUCTIONS:

- Dry application method

It is mandatory to use the so-called «dry» application method with this film, due to its HEXPRESS ONE 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.

- Recommended minimum application temperature: +15 °C (+59 °F) Apply preferably between 20 °C and 25 °C (+68 °F and +95 °F).
- Operating temperature range: -40 °C to +90 °C (-40 °F to +194 °F)
- For a uniform visual aspect, it is necessary to keep the same film application direction in order to ensure colour homogeneity according to the viewing angle.

Caution: The surface of the HXONE film is protected by a protection film. This protective film must be removed just before cutting or applying.

- The roll must be properly closed immediately after use (masking tape).

The remaining film must be stored on its original core to allow the film to keep an optimal aspect.

- Conformable product, suitable exclusively for vehicles and other products on wheels.
- In the case of painted substrates, 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:

- It is recommended to place an anti-static copper tinsel between the adhesive and the liner before removing the protection film and the liner. This reduces the film's electrostatic charge, which is responsible for dust accumulation on the product's surface.
- Recommendation (whenever possible): Sunlight and prolonged exposure to weathering and pollution may provoke ageing of the film[1]. A vehicle wrapped with HXONE film must be protected from sun and bad weather (rain, dew...) as often as possible: during the day, park in the shade; at night, park the car in a closed garage (otherwise, cover the vehicle with a loose protective cover).
- 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 the HXONE film, please refer to its Application Guide under the «Professionals» heading, in the «Wrap vinyls" category on our website.

STORAGE:

Storage period before use
2 years

Relative humidity during storage
with relative humidity between 30 % and 70 %

Storage temperature
+15 °C to +25 °C (+59 °F to +77 °F)

Storage method before use
in its unopened original packaging

DURABILITY: CENTRAL EUROPEAN CLIMATE

Dominant colour	Indicative durability (years) [2] Vertical exposure (± 10°) Central European climate
White, Black	*6*
Colours, other tints	*5*

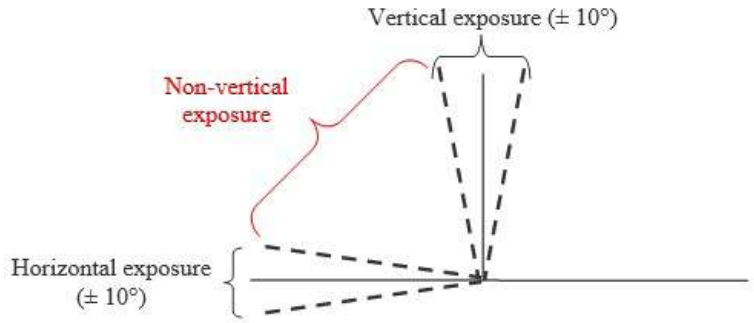
Chart 1: Vertical durabilities[1] Central Europe

- The pigmentation (colour) of the PVC affects the stability duration of the dyes. An estimate of such a durability is obtained by accelerated UV ageing tests performed on the CAST HX20000 films and by natural outdoor weathering.
- The results indicated in the chart 1 below are obtained specifically in vertical (± 10°) outdoor exposure. The conditions of durability indicated in chart 1 are inherent to this position up to a few degrees. Other positions accentuate climatic influences and an alteration in gloss or colour, or even a slight dusting may appear. Application to a vehicle bonnet is particularly severe, due to the horizontal exposure and the heat from the engine.
- To estimate the durabilities for non-vertical exposure, divide the durabilities in Chart 1 by the factors given in Chart 2.

Exposure	Dividing factor [2] Central European climate
Non-vertical exposure	*2*
Horizontal exposure (± 10°)	*2,8*

Chart 2: Dividing factor

DURABILITY: CENTRAL EUROPEAN CLIMATE



- **The actual durability of a product depends on a large number of parameters, including, among others, the quality and preparation of the substrate, exposure (environment, climate, exposure angle), graphics maintenance, and degree of pollution.**

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.

NOTES:

(1) If an important degradation of the film (due to prolonged exposure to sunlight, weathering, polluting agents) appears (discolouration, powdering, tanning...), it must be removed immediately from the vehicle in order to avoid any damage to the underlying paintwork.

(2) The indications of durability noted in this document do not constitute a binding guarantee. They are an estimate of the time during which the film retains a correct surface finish, from a conventional viewing distance.
A slight and gradual change in colour and gloss is a natural and inevitable phenomenon inherent to the natural breakdown of the materials.

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 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.