

Serie HX30000

PRODUCT DESCRIPTION:

Range of products comprised of a 100-µm to 210-µm (upon reference), 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. Gloss, matt or structured surface finish.

FILM FEATURES:

Indicative values

• Thickness (µm):	
• Honeycomb effect (HX30HC889S):	150
• Forged carbon effect (HX30CAF89S):	140
• Other carbon effects (HX30CA000B):	150 to 180 µm (upon colour)
• Small grain leather effect (HX30PG000B):	210
• Brushed aluminium effect (HX30BA000B):	130
• Matt surface finish:	100 to 110 µm (upon colour)
• Variochrome & Rainbow:	110
• Pearly iridescent:	110 to 165 µm (upon colour)

Average values

Standard

• Tensile strength (N/25 mm):	min. 15	HEXNFX41021
• Elongation at break (%):		
• Structured surface effects: (carbon, small grain leather, honeycomb, brushed aluminium, etc.)	min. 50	HEXNFX41021
• Other references:	min. 90	HEXNFX41021
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 0.5	HEXRET001

LINER:

- Embossed and silicone-coated liner.
- Stable under hygrometric variations.

ADHESIVE PROPERTIES:

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

(N/25 mm)	HX30CAF89S (forged carbon effect)	HX30HC889S (honeycomb effect)	HX30CA000 (carbon effect)	HX30PG000B (small grain leather effect)	HX30BA000B (brushed aluminium effect)	Other references (matt, variochrome, pearly iridescent, rainbow)	Standard
Peel strength test 180° on glass – after 20 min. of application	14	15	9	15	16	15	HEXFTM001
Peel strength test 180° on glass – after 24 hours of application	18	20	11	20	21	18	
Initial tack	19	18	16	24	18	18	HEXFTM009
Release	0.3	0.2	0.2	0.3	0.2	0.2	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 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.

- Recommended minimum application temperature: +18 °C (+64 °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)
- Conformable product, suitable exclusively for vehicles and other products on wheels.
- 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.
- The HX30000 films with structured surfaces (carbon, small grain leather, honeycomb, etc.) are fragile products. The heating and re-heating steps following application require particular attention. Heating phases that are too long or too focused may lead to the film tearing off.
- During removal, the structured products tend to tear off along the pattern of the structure.
- The carbon effect HX30HX30CAF89S and HX30CA000 films (except HX30CA890B) as well as HX30HC889S with honeycomb effect are fragile and sensitive to scratching or pressure marks. To be handled with care.
- Films with matt surface finish are fragile products, sensitive to scratching and pressure marks. To be handled with care. If any traces remain after application, they can be reduced by slightly heating (max. 90 °C/194 °F) the surface with a heat gun.
- For the HX30PG000B film with structured effects, the repetition of the pattern may create the impression of a grid pattern, particularly if the product is applied to large surfaces.
- Due to their particular structure, certain films of this range (structured effects and matt films) may show dirt more easily than a smooth PVC film. This type of film may require more frequent and/or more thorough cleaning. Cleaning can be difficult for films exposed to a particularly dirty environment (e.g. race cars, rally cars, etc.).
- Due to their structure, the metallised and glossy pearly iridescent and rainbow films will slightly fade when stretched. In order to obtain a uniform appearance and therefore avoid demarcations, it is necessary to heat slightly (+40 °C/+104 °F) and stretch the entire film during application.
- Due to their composition, the pearly iridescent and rainbow films are fragile. After heating the film, it is imperative to wait for at least 3 seconds before applying it (using a squeegee and gloves...). A shorter waiting time might considerably increase the risk of delamination of the upper film layer. In the case of film overlapping, the removal or repositioning of the top film must be carried out with caution in order to prevent delamination of the upper layer of the bottom film (particularly at the film edges).
- 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.

Note: To ensure optimum opacity, the films of the HX30000 range contain a high concentration of pigments. In certain cases, when cleaning the film, coloured traces may appear on the cleaning cloths. This action removes excess pigment from the film surface. This operation will not impair in any way the appearance or durability of the films. This effect may be intensified when using cleaning products containing solvents.

OPERATING RECOMMENDATIONS:

- Recommendation (whenver possible): Sunlight and prolonged exposure to weathering and pollution may provoke ageing of the film ⁽¹⁾. A vehicle wrapped with HX30000 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 HX30000 range, please refer to the Application Guide on the «Professionals» pages, category «Wrap vinyls», on our site www.hexis-graphics.com.

STORAGE:



Storage period before use
2 years



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



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



Storage method before use
in its unopened original packaging

DURABILITY: CENTRAL EUROPEAN CLIMATE

- The pigmentation (colour) of the PVC affects the stability duration of the dyes. An estimate of such a durability is confirmed by accelerated UV ageing tests performed on the cast HX30000 films and by natural outdoor weathering.
- This durability does not cover any alteration arising from scratches or contamination of the product occurring during the application or life cycle of the product.

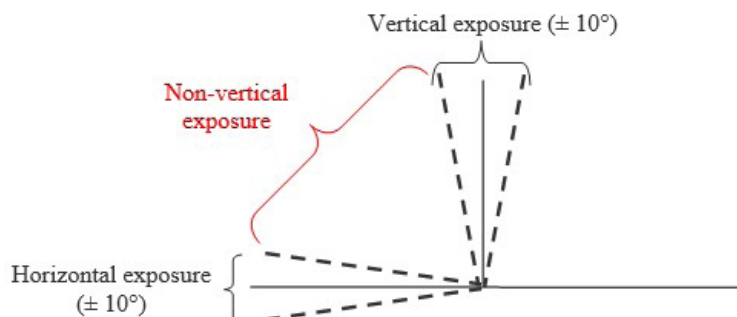
Dominant colour		Max. indicative durability (years) ⁽²⁾ Vertical exposure ($\pm 10^\circ$)
Range 1:	White, Black (matt surface finish) Colours, other matt tints	5
	Variochrome Pearly iridescent: HX30BNCB, HX30RGOB/M, HX30VBOM, HX30BNEB, HX30BPB Rainbow: HX30RW889B, HX30RW002B, HX30RW990B	2
Range 2:	Carbon effect HX30CAF89S and HX30CA000B Small grain leather and honeycomb effect	5
	Brushed aluminium HX30BA000B	3

Chart 1: Vertical durabilities⁽¹⁾ Central Europe

- The results indicated below are obtained specifically in vertical ($\pm 10^\circ$) 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 the 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 ($\pm 10^\circ$)	2,8

Chart 2: Dividing factor



- The real 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.

CERTIFICATION:

Fire-smoke classification



Fire-smoke classification standard

EN 13501-1

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 in 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.