



TECHNICAL DATA SHEET - PROTECTIVE FILM HEXLIGHTSx

The 70- μ m, very high-performance, cast *HEXLIGHTS* films are coated with a pressure-sensitive, solvent-based acrylic adhesive. Structured adhesive for faster application and air evacuation. Specially designed for headlight and taillight tinting of vehicles. Tints: available in glossy, transparent, light or dark black.

FILM FEATURES:

	<u>Indicative value</u>	
• Thickness (μ m):	70	
	<u>Average values</u>	<u>Standard</u>
• Tensile strength (N/25 mm):	min. 15	HEXNFX41021
• Elongation at break (%):	min. 100	HEXNFX41021
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 0.4	HEXRET001

LINER:

- Embossed, silicone-coated PET liner, 100 μ m.
- 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° (N/25 mm):		HEXFTM001
after 20 minutes of application:	12	
after 24 hours of application:	13	
• Initial tack (N/25 mm):	17	HEXFTM009
• Release (N/25 mm):	0.3	HEXFTM003

ADHESIVE:

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

USER'S INSTRUCTIONS:

- Minimum recommended application temperature: +15 °C (+59 °F). Apply preferably between +20 °C and +25 °C (+68 °F and +77 °F).
- Operating temperature range: -40 °C to +90 °C (-40 °F to +194 °F).
- Conformable product, suitable for devices on wheels and vehicles only.
- Apply to a surface that is clean and free from any traces of contaminants (dust, grease, wax, silicone, etc.).

Particular care must be taken to clean the angles and periphery of the target surfaces in order to allow the film to adhere properly to the surface.

- Only apply to an undamaged substrate.

If the substrate is damaged, the application and the removal are at the judgement and risk of the installer.

Caution: The HEXLIGHTS films are intended to be applied to exhibition vehicles or vehicles used on off-road terrains not suitable for public traffic (e.g. private lanes, circuits, etc.).

It is recommended to enquire about the current legislation in the country of use prior to any appearance modification of the vehicle's lighting and warning devices for applications other than those stated above. HEXIS cannot be held liable for any non-compliance with the current legislation of the country of use.

OPERATING RECOMMENDATIONS:

- To facilitate application, HEXIS have several types of squeegees in its range of accessories, ranging from softer to harder (plastic or felt).
- For more information on the application method of the HEXLIGHTS films, please refer to its Application Guide on the "Professionals" pages, category "Solar and safety films" on our site www.hexis-graphics.com.

STORAGE:

- Shelf life (before use):

The shelf life of this film is 2 years when stored unopened in its 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)

- Lifespan depends on the type of substrate, substrate preparation, exposure conditions and nature and frequency of the cleaning.

For instance, it is estimated that a south-facing exposure (in the northern hemisphere) will divide the durability by two. The same applies to a horizontal exposure. In addition, elevated temperatures (above +50 °C) (+122 °F) or pollution significantly reduce this durability.

- Vertical exposure: up to 7 years (under normal road use conditions).

NOTES:

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. A glass/film compatibility study should be requested in case of doubt. 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.