



## TECHNICAL DATA SHEET - PROTECTIVE FILM BLACKLIGHT

*BLACKLIGHT* is an adhesive film specially developed for protecting transparent vehicle surfaces. Due to its excellent shock-absorbing properties, this film protects glazings, head and back lights, etc. against chips caused by stones, insects, washing brushes, etc. Glossy, light grey, transparent surface finish.

### **FILM FEATURES:**

	<u>Indicative value</u>	
• Total thickness (film + adhesive) (µm):	130 ±10 %	
	<u>Average values</u>	<u>Standard</u>
• Tensile strength (N/25 mm):	> 25	HEXNFX41021
• Elongation at break (%):	> 200	HEXNFX41021
• Shrinkage 168 hours at 70 °C (158 °F) (mm):	< 0.2	HEXRET001

### **LINER:**

- Silicone-coated PET liner.

### **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:	10	
after 24 hours of application:	12	
• Initial tack (N/25 mm):	8	HEXFTM009
• Release (N/25 mm):	0.1	HEXFTM003

### **ADHESIVE:**

- Solvent-based acrylic adhesive.
- Immediate and permanent adhesion, optimal after 24 hours of contact.

## **USER'S INSTRUCTIONS:**

- Minimum recommended application temperature +10 °C (+50 °F). Apply preferably between +15 °C and +35 °C (59 °F to 95 °F).
- Operating temperature range: -40 °C to +90 °C (-40 °F to +194 °F).
- Withstands the heat of a bulb up to 140 °C (284 °F) for a duration of 3 hours.
- Cut the film to the size of the part to be wrapped, allowing +10 cm (4 in.) of extra margin.

*The remaining film must be stored on its original core (do not cut the rolls into several lengths, do not repackage the product); the roll must be closed immediately and properly (tape or roll-collars) after use in order to preserve all its qualities.*

- Apply wet.
- 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 enable 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 Blacklight film is 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, warning and glazing 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 BLACKLIGHT film, please refer to its Application Guide on the "Professionals" pages, category "Solar and safety films" on our site [www.hexis-graphics.com](http://www.hexis-graphics.com).

## **STORAGE:**

- Shelf life (before application):

The shelf life of this film is 1 year when stored upright in its original packaging in a dust-free environment at a temperature ranging from +15 °C to +25 °C (+59 °F to +77 °F) with relative humidity of 50 %.

**DURABILITY:**

- 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, Northern Central Europe climate: up to 7 years (under normal road use conditions).

*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](http://www.hexis-graphics.com).*

**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](http://www.hexis-graphics.com).