



## TECHNICAL DATA SHEET - PROTECTIVE FILM BFBLACK

**BFBLACK** is a opaque black adhesive-coated film, which is self-healing at ambient temperature and specially developed for decorating and protecting metal roofs of cars. Its excellent shock-absorbing\* properties protect your bodywork against insects and scratches caused by washing brushes, etc. Glossy surface finish.

### **FILM FEATURES:**

	<u>Indicative value</u>	
• Total thickness (film + adhesive) (µm):	180 ± 10 %	
	<u>Average values</u>	<u>Standard</u>
• Tensile strength (N/25 mm):	> 100	HEXNFX41021
• Elongation at break (%):	> 350	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:	15	
after 24 hours of application:	15	
• Initial tack (N/25 mm):	10	HEXFTM009
• Release (N/25 mm):	0.2	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).
- Self-healing properties of the film at ambient temperatures: This phenomenon of reabsorbing scratches accelerates especially as the temperature increases.
- 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 or widths, 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.*

- In the case of an already painted substrate, 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:**

- Conformable product developed for decorating and protecting\* metal roofs of vehicles against insects, bird droppings, tree resins, scratches caused by washing brushes, etc.
- 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 *BFBLACK*, please refer to the 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:** (Northern and 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 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.
- Horizontal exposure: up to 3 years.

**NOTES:**

\* *BFB* provides relative protection against the impacts caused by falling objects. As the shape, size and force of impact of the objects can vary, HEXIS cannot be held liable for any damage observed on the protected surface caused by hailstorms, falling rocks, tree branches, etc.

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).