



TECHNICAL DATA SHEET - PROTECTIVE FILM 3333 SHIELD

Adhesive-coated, stratified polyester film intended for the protection of all passenger vehicles windshields. Thermoformable film with 3 removable layers. Durably scratch-resistant layers. Application to the exterior of vehicle windows.

FILM FEATURES:

	<u>Indicative values</u>
• Thickness of each non adhesive-coated film (µm):	75
• Total thickness (µm):	230
• Visible light transmission (%):	92
• Max. UV transmission (%):	< 2

LINER:

- Polyester liner.

ADHESIVE PROPERTIES:

	<u>Indicative values</u>	<u>Standard</u>
• Peel strength test 180° on steel (N/25 mm):		D-3330
Base film adhesion:	4	
Intermediate films' adhesion:	2	

ADHESIVE:

- Acrylic adhesive.

USER'S INSTRUCTIONS:

- For an optimal installation and duration of use of the 3333 SHIELD film, the film application must be carried out by an installer who has followed the Tear-off training provided by HEXIS S.A.
- Application to the outer side of windshields.
- Recommended minimum application temperature: 18 °C (64 °F).
- Operating temperature range: -40 °C to +90 °C (-40 °F to +194 °F).
- During storage, always handle with clean and dry hands.
- One-direction thermoformable film.

- Always remove the liner at the moment right before application, and squeegee the film right after as instructed during the HEXIS training courses.
- Quasi-immediate adhesion: do not peel off once applied.
- Only use special tools dedicated to the application of vehicle window films.
- Possibility of superimposing up to 3 compounds (9 layers of protection).
- Wait 30 days after application before cleaning the film.

OPERATING RECOMMENDATIONS:

- For further information on the application method of the 3333 SHIELD film, please refer to the Application Guides available under the "Professionals" headings, category "Solar and safety films" on our website at www.hexis-graphics.com.
- The film can be cleaned with soapy water and a non-abrasive sponge.
- Dry the film with a rubber squeegee or a clean microfibre cloth.

STORAGE:

- Shelf life (before application):

The shelf life of this film is 2 years when stored horizontally in its original packaging at a temperature ranging from +15 °C to +25 °C (+59 °F to +77 °F) with relative humidity ranging from 40 % to 60 %. The packaging must be stored on a dry, completely flat and uniform surface.

DURABILITY:

- Time limit for the layer removal: Between 6 and 12 months per layer within a maximum period of 36 months for the 3 layers.

NOTES:

Due to the great variety of substrates and the growing number of new applications, the installer must check the suitability of the media for each application. In case of doubt, request an expert evaluation of the compatibility of film and glass. HEXIS cannot be held responsible for any irregularity, vis-à-vis the country's current legislation, caused by the application of the film in question to the vehicle. 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.