



TECHNICAL DATA SHEET - PROTECTIVE FILM SHIELD

Film for solar protection. UV-proof. Indoor application. This film delays discolouration and fading.

FILM FEATURES:

Average values

(values for a film applied to 3-mm clear glass)

- Thickness (µm): 55
- Solar energy rejected (heat) (%): 57
- Solar energy reflection (%): 34
- Solar energy absorption (%): 29
- Solar energy transmission (%): 37
- Visible light transmission (%): 62
- Visible light reflection (%): 14
- UV transmission (%): 1

FILM COMPATIBILITY: (vertical application)

Type of glazing		Compatibility
Single glazing	Clear	Yes
	Tinted	Yes
	Tinted, mirrored	Yes
Double glazing	Clear	Yes
	Tinted	Yes
	Tinted, mirrored	Yes
	Low emission (inert gas fill)	No
	Laminated, clear (glass with interlayer film facing the exterior of the building)	Yes
	Laminated, clear (glass with interlayer film facing the interior of the building)	No

USER'S INSTRUCTIONS:

- By protecting a window with the SHIELD film, discolouration of objects behind the window is delayed (1).
- Prior to any film application to a substrate prone to degassing, it is the responsibility of the prescriber and applicator to verify the compatibility of the film with the substrate and to carry out an optimal substrate degassing (in the case of synthetic glass such as PMMA). The applicator is liable for any appearance of bubbles due to substrate degassing.
- Indoor application.
- Application to vertical glass surfaces, up to a maximum of 2.5 m².
- When applying several widths side-by-side, always keep the same film application direction.
- During storage, always handle with clean dry hands.
- Always remove the liner just before application, and squeegee the film immediately after as instructed during the HEXIS training courses.
- Application with soapy water only.
- Adhesion to glass, except grain substrates.
- Only use the special tools dedicated to the application of window films.
- The film should not be covered with stickers or self-adhesive films.
- Protect the film edges with a marine type sealing varnish.
- If peeled off after its application, the deterioration of the structure and appearance of the film will be irreversible.
- After application wait for one month minimum before cleaning the film's surface with soapy water for the first time.

OPERATING RECOMMENDATIONS:

- For further information on the application method of the SHIELD film, please refer to its Application Guide available under the "Professionals" heading, in the "Solar and safety films" category on our website www.hexis-graphics.com.

STORAGE:

- Shelf life (before use):

The shelf life of this film is 3 years when stored horizontally 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:

- Vertical exposure: 15 years

WARRANTY:

- HEXIS warrants the SHIELD for vertical exposure for 10 years against cracking, yellowing and demetallisation of the film.

CERTIFICATIONS:

- The film complies with REACH. It does not contain any substances referenced in ECHA's list of SVHC (Substances of very high concern).

NOTES:

(1) The discolouration of objects exposed to direct UV rays is a natural phenomenon. The application of the SHIELD film will delay this phenomenon without completely neutralising it, over long periods. The actual delay of the discolouration is dependent on the type and the colour of the object behind the window covered with the SHIELD film.

The compatibilities indicated in this table are provided for informational purposes only and must be confirmed on a case-by-case basis. Due to the great variety of glazing and exposure possibilities, it is the responsibility of the customer/the person in charge of application to carry out a detailed compatibility study between the glass/film and the use-related impacts. These evaluations should be done prior to product implementation in order to determine if it is suitable or not for the intended purpose. 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.