

TECHNICAL DATA SHEET

SAFETY & SECURITY FILMS

CLEAR SAFETY FILM 4 MIL

Splinter protection per EN 12600 for people and property

Safety films retain glass shards within the frame and impede forced entry. They protect people during glass breakage, reduce the risk of injury and are used for schools, retail stores, public buildings and private homes.

PRODUCT FEATURES

Splinter protection per EN 12600

99 % UV blocking

Compatible with solar control films

Improved break-through resistance

Optically clear

FILM CONSTRUCTION

Layer	Thickness (μ)
Scratch-resistant coating	6
Polyester safety base	102
Reinforced adhesive (PSA)	30
Release liner	50

Nominal film thickness (without release liner): approx. 102 μm (± 10 %)

OPTICAL AND ENERGY PERFORMANCE

Typical values, applied to 3 mm clear glass (interior side).

Property	Symbol	Unit	Typical Value
Visible Light Transmittance	VLT	%	88
Visible Light Reflectance (exterior)	VLR-E	%	9
Visible Light Reflectance (interior)	VLR-I	%	9
Total Solar Transmittance	T	%	80
Total Solar Reflectance	R	%	10
Total Solar Absorptance	A	%	10
Ultraviolet Rejected (300–380 nm)	UVR	%	99
Total Solar Energy Rejected	TSER	%	15
Shading Coefficient	SC	—	0.95
Solar Heat Gain Coefficient	SHGC	—	0.82
Glare Reduction	GR	%	2
Emissivity	E	—	0.85
Winter Median U-Value	U	—	1.09

INSTALLATION	Installation by authorised professional installers only. The recommended surface and ambient temperature for installation is between 15 °C and 30 °C. The application area must be dust-free, well ventilated and free from direct sunlight. Full curing takes 30 to 60 days.
STORAGE	Store rolls upright in the original packaging. Recommended storage temperature 18 °C to 26 °C, relative humidity 50 % to 60 %. Shelf life 12 months from date of manufacture.

NOTES

All values shown are typical measured values and are intended for reference only. The user must verify the suitability of the product for the intended application prior to installation. Global Hi-Tech Films assumes no liability for improper installation or unsuitable substrates.