

Removeable protection film for shop windows, public transportation vehicles, bus stops and all exposed public areas, where vandalism occurs (scratching, graffiti painting, etc).

Performance Results (EN 410)	4 mm einfach
Visible Light	
Transmittance (VLT) %	88
Solar Energy	
IR rejection [780 - 2500 nm] %	25
UV protection [300 - 380 nm] %	>98
Fade reduction %	25
Physical Properties	
Thickness (incl. adhesive)	200 µm
Tensile strength ASTM D 882	2110 kg/cm ²
Break strength ASTM D 88	44,0 kg/cm
Tear strength (Graves) ASTM D 1004	6,0 kg
Puncture strength ASTM D 4830	64,0 kg
Peel strength ASTM D 903	>985 g/cm
Adhesion, applied to glass ASTM D903-98	70 N/m (24 Stunden) 102 N/m (30 Tage)
Scratch resistance ASTM D 1044	10,0 %
Taber Haze 5130, 100 Zyklen, 2x 500g	
Shrinkage without liner (30 min., 120° C)	< 1mm

Material Construction Self Adhesive Film

- Clear heavy-duty polyester film.
- Scratch resistant hard coat on the surface.
- Siliconised liner on the adhesive.
- High quality pressure sensitive adhesive system (water activated) with integrated UV-absorber for best longevity.

BRUXSAFOL Warranty	5 years inside 2 years outside, vertical installations 1 years outside, slanted installations
Storage	Recommended at +15° C up to +25° C and rel. humidity 50%: approx. 3 years
Possible Widths	<input checked="" type="checkbox"/> 183 cm <input checked="" type="checkbox"/> 152 cm <input checked="" type="checkbox"/> 122 cm <input type="checkbox"/> 91 cm


ANTI-GRAFFITI

Certificates*

Permit for public transportation		ABG D ~5619
Flammability	EN 45545-2 EN 13501-1	R1;HL1/HL2/HL3 B/s1/d0

* Please contact your BRUXSAFOL partner for additional details in regard to test reports and certificate validity.

Film-to-Glass Guide

Single pane clear or tinted	●
Double pane clear or tinted	●
Double pane Low-e on #2	●
Double pane Low-e on #3	●
Triple pane Low-e	●

- Low risk
- ▲ Caution! Submit Film-to-Glass application for risk assessment
- Tempered only

For further details please view:
www.bruxsafol.de/download/ftg-guide.pdf

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 Technical data calculated using „Window 7.2.“ according to EN 410 and EN 673.