

Safety film to prevent injuries by flying fragments of glass (in particular in kindergartens, schools and public places). Glazing protection in food processing facilities. Injury protection against vandalism and attacks (e. g. stone throw and Molotov cocktails). Protection against smash-and-grabs.

Performance Results (EN 410)	4 mm Single	4/12/4 mm Double
<b>Visible Light</b>		
Transmittance (VLT) %	87	79
<b>Solar Energy</b>		
IR rejection [780 - 2500 nm] %	28	-
UV protection [300 - 380 nm] %	>99	>99
UV Tdw-ISO [300 - 700 nm] %	62	56
Fade reduction %	27	24
<b>Physical Properties</b>		
Thickness (incl. adhesive)	285 µm	
Tensile strength ASTM D 882	2110 kg/cm <sup>2</sup>	
Elongation ASTM D 882	>100 %	
Break strength ASTM D 882	55,0 kg/cm	
Yield strength ASTM D 882	27,0 kg/cm	
Tear strength (Graves) ASTM D 1004	7,5 kg	
Puncture strength ASTM D 4830	80,0 kg	
Peel strength ASTM D 903	>985 g/cm	



**SAFETY FILM**

### Material Construction Self Adhesive Film

- Clear 3-layer, factory-made cold laminated safety 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.

### Certificates

<b>Safety protection</b>	EN 12600, Classification	1B1
<b>Security protection</b>	EN 356, Classification	P2A
<b>Flammability</b>	DIN 5510-2	S4 / SR2 / ST2

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

**BRUXSAFOL Warranty** 10 years

**Storage** Recommended at +15° C up to +25° C and rel. humidity 50%: approx. 3 years

**Possible Widths**  183 cm  152 cm  122 cm  91 cm

### 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](http://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.