



Safety &amp; Security Window Film - SWF™

### PRODUCT DESCRIPTION

SWF™ is an optically clear, glass shatter resistant and abrasion resistant window film that, when applied as instructed to the glass surface of interior or exterior windows or doors, helps hold broken glass together and significantly reduces the ultra-violet light that normally would enter through the glass.

SWF™ window security film is made up of one or more layers of polyester film that has been laminated together with unique adhesives.

### PRODUCT FEATURES

- Engineered to help hold broken glass in place.
- Protect people from the risk of flying glass shards, one of the most common causes of blast-related injuries and fatalities.
- Tear-resistant protection with excellent solar control.
- Tear-resistant protection with enhanced views at night.
- Helps hold glass in place and may allow for continued building occupancy while glass is replaced.
- Meets many industry performance standards for glass fragment retention

### PRODUCT USES

SWF™ is an easily applied, tear-resistant safety and security window film designed to provide an increased measure of protection in a broad range of uses including basic glass fragment retention, spontaneous glass breakage, seismic preparedness, safety glazing, bomb blast mitigation, Smash and Grab or Break and Entry events

### TECHNICAL DATA & PHYSICAL PROPERTIES

Film Thickness	0.1-0.4 mm
Tensile Strength	172 Mpa
Break Strength	445 N / 25 mm - 1557 N / 25 mm
Elongation at Break	>125%
Peel Strength	9 N / 25 mm - 18 N / 25 mm
Abrasion Resistance	<5%
Shelf Time	10 years
Storage Conditions	Store dry at 4°C – 40°C

### HOW TO USE

#### SURFACE PREPARATION

- Examine glass surfaces intended to receive new film and verify that they are free from defects and imperfections, which will affect the final appearance and potentially the as-installed performance. Correct all deficiencies before starting film application.
- A clean and dust-free work area should be provided when the films are installed

### CUTTING

- Measure your window and add 25 mm extra to width and height for trimming. Unroll film liner-side up, mark, and cut on a clean flat surface.

### APPLICATION

- Before applying each piece to its corresponding window, a soapy water solution will need to be sprayed across the glass. This will make it easier to manipulate and position the film as needed until it's perfectly in place.
- Put the film on the window with the adhesive side facing it. Once the film has been placed, it will need to be smoothed out with a squeegee-like tool to remove any air bubbles or wrinkles, no matter how minor.
- Once the SWF™ security film has been applied, positioned, and smoothed over, it's time to trim away any excess film that doesn't fit perfectly with the window.

### STORAGE

Safety and security window film should be stored in its original packaging, horizontally, away from direct sunlight, and at a temperature of around 21°C with 40-50% relative humidity.

### DISCLAIMER OF LIABILITY

AFZIR, LLC warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within six months of the date of purchase.

AFZIR shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.

The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.