

TechnoFilm™ SWF

Safety Window Film

TECHNO POL

مقاوم سازی تکنوپل

Ref: TechnoFilm™ SWF

PRODUCT DESCRIPTION

TechnoFilm™ SWF is a transparent and flexible safety film designed to enhance the safety of glass surfaces. The film is applied directly to the glass surface and, in the event of damage or breakage, helps hold the broken glass fragments together.

The primary purpose of TechnoFilm™ SWF is to reduce the falling and dispersal of glass fragments and limit the hazards associated with the breakage of glass surfaces in various environments.

The product allows existing glass to be upgraded without requiring complete replacement. Due to its low thickness and transparent appearance, it has minimal impact on the visual appearance of the glass



Breakage
Control



Scratch
Resistance



Strong
Adhesion



High
Transparency



Reduced
Glass
Shattering



UV
Protection

TECHNICAL DATA

Product Name	TechnoFilm™ SWF
Type	Safety Window Film
Structure	Multi-layer polyester film
Appearance	Transparent
Available Thicknesses	100 µm
Adhesive System	Pressure-Sensitive Adhesive (PSA)
Tensile Strength	20–40 MPa
Breaking Strength	600–1000 N/m
Elongation at Break	80–200%
Peel Strength	12–25 N/cm
UV Performance	Up to 99% UV blocking
Scratch-Resistant Coating	Available
Applicable Surface	Flat and curved glass
Shelf Life Before Installation	1–2 years
Expected Service Life After Installation	Up to 10 years
Storage Temperature Range	5–25°C



ADVANTAGES

- Glass Fragment Retention
- Enhanced Environmental Safety
- Direct Application to Existing Glass
- Transparent Appearance
- Suitable Mechanical Performance
- UV Protection
- Scratch-Resistant Surface

Applications

- **Residential Buildings**
Windows
Glass doors
Floor-to-ceiling glass
Interior partitions
- **Office Spaces**
Glass rooms
Glass partitions
Glass doors
Building lobbies and entrances
- **Commercial Spaces**
Storefront windows
Shopping centers
Entrance glazing
High-traffic glass surfaces

Public Facilities

Educational facilities

Healthcare facilities

Halls and assembly spaces

Service buildings

Architectural Applications

Glass façades

Large windows

Installation Procedure

The glass surface is thoroughly cleaned and dried before installation. The film is cut according to the required dimensions and applied using a suitable installation solution. The film is then positioned and squeegeed to remove trapped water and air. Finally, the edges are trimmed and the surface is inspected for bubbles and wrinkles. The film should be allowed to stabilize for 24–48 hours before washing or heavy use

Cleaning

- Do not use abrasive materials.
- Do not drag sharp tools across the film surface.
- Avoid using highly aggressive cleaning agents.
- Clean the surface using a soft cloth or suitable soft cleaning tools.
- Do not wash the surface during the initial period after installation.

Storage

- Kept away from direct sunlight.
- Stored in a dry environment.
- Kept in its original packaging.
- Protected from moisture and contamination.
- Protected from extreme temperature fluctuations.

Packaging

- Roll Length: 50 m
- Available Widths: 1.22 m / 1.52 m

