

SilShield® Spall-Free

Anti-spall Film PT-D8100 (for TPU)



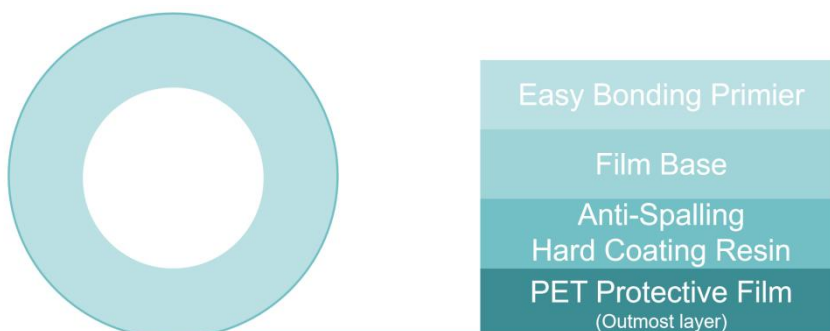
Product Introduction

SilShield® PT-D8100 Spall-Free Film is designed to enhance the overall performance of high-security glass, such as ballistic glass, windshield glass, and skylight glass. The product is made from a special optical-grade PET film, coated with a high-definition splash protection and hard coating resin layer. It has a high elongation rate, making it suitable for flat and large curved glass laminations, with broad compatibility with different TPU films. At the same time, the side of the film that comes into contact with the air exhibits excellent abrasion resistance and hardening properties. SilShield® Spall-Free Film offers an excellent solution for reducing weight, increasing strength, and enhancing the safety of glass.

Features

- Possesses excellent splash protection capabilities, serving as the final safety barrier for glass after impact.
- Reduces the overall thickness and weight of safety glass.
- Exhibits good resistance to most chemicals.
- High transparency, high definition, and low haze; no significant change in light transmittance or clarity after laminating.
- Widely applicable with strong adhesion to various categories of TPU.
- Maintains the shape of the glass and prevents glass splintering and secondary injuries when subjected to external impacts.
- Features anti-graffiti and abrasion resistance on the film surface, ensuring long-lasting cleanliness of the glass surface.

Structure



Technical Data and Parameters

Appearance	Transparent roll material	
Usage Layer Thickness	198±4um	
Packaging Specifications	1524mm*30.48m/R (or customized dimensions)	
Test Items	Standards	Test Result
Light Transmittance (%)	GB/T2410-2008	≥90%
Light Reflectance	GB/T26332.1-2018	8±2%
Heat Transmission Rate	ASTM C1371	75±7%
Heat Reflectance	ASTM C1371	10±2%
Heat Absorption Rate	ASTM C1371	15±2%
Tensile Strength /TD	ASTM D256-2010	>=150±15lb/inch
Tensile Strength /MD	ASTM D256-2010	>=100±15lb/inch
Elongation at Break/TD	ASTM D256-2010	>=35%
Elongation at Break/MD	ASTM D256-2010	>=105%
Chemical Resistance	Ggaea-meilleur internal standards	It can briefly come into contact with standard reagents, acids, bases, and strong solvents.
Ball Drop Impact	GB/T9962-1998	OK
Anti-Graffiti Test	NF F31-112	>=G1

Storage

- Shelf Life: 12 months from the date of receipt by the customer.
- Storage Temperature: Store under conditions avoiding direct sunlight, at an indoor environment temperature of 23±5°C, and humidity of 55±10%.

Packing

For our valued customers, Ggaea-Meilleur offers flexible support and services. We not only provide roll materials but also customize according to customer dimensions. Our mission is to provide customers with the most professional comprehensive solutions and assist them in achieving success in their respective fields.

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