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Product Data

Safety Film – SCL SR PS4

TAP Safety Film is a window film suitable for both safety and graffiti protection. Safety film has a proprietary crystal clear pressure sensitive adhesive. When applied, it is totally invisible. It has a scratch resistant coating that stands up to the toughest use. The film blocks up to 99% of fade causing UV light.

In residential use, it is typically installed on the interior surface. It increases security by resisting entry from outside impact. On sliding glass doors it prevents dangerous harm when someone accidentally walks into the glass.

In commercial applications, it can be used for graffiti protection. When vandals ‘tag’ the glass, they only damage the film which can be replaced more easily than the glass. It is used for that same purpose on mirrors in public restrooms.

In both residential and commercial applications it can keep the glass in the window frame in the event of an earthquake. This can preserve building security and prevents dangerous flying shards of glass.

Introduction • This report presents the results of impact tests conducted on annealed glass with applied Safety Film, performed in accordance with the Code of Federal Regulations 16, Chapter II, Consumer Product Safety Commission, (CPSC), Part 1201, Safety Standard for Architectural Glazing Materials (January '91 Revision) and the National Standards Institute's Specification for Safety Glazing Material Used in Buildings, ANSI Z97.1-1987 Unlimited (48 inch drop height only - two specimens only).

Test Results Summary

SCL SR PS4 (4 Mil Clear) - Complies with CPSC Category II and ANSI Z97.1 Unlimited (modified with a 48 inch drop height only - two specimens only) when applied to nominal 1/8" annealed glass.

Description of Samples • A minimum of two specimen of 34x76 inch dimension of each thickness were supplied for testing impact resistance. The samples consisted of nominal 1/8" clear annealed glass with film (organic coating) professionally applied to one side and allowed to cure. The applied film was held back 1/2" from the edge of the glass to avoid "clamping" in the test frame. All samples were prepared prior to delivery to the test facility.

TEST METHODS AND RESULTS

Impact Test

Specimens were kept at a temperature of 70-80°F for a minimum of four hours preceding the test. Specimens were placed alternately with the film facing the impact and opposite of the impact as shown below. Each specimen was struck once within 1/2" of center, with a shot-bag constructed in accordance with specifications referenced, swinging in a pendulum arc, from a drop height of 48 inches.

Results

| 4 mil product, SCL SR PS4 applied to 1/8" glass | | | | |
|---|-------------|-------------------------|--------------------|--|
| Sample Number | Impact Side | Total Thickness, Inches | Drop Height Inches | Result/Size of Opening |
| 1 | Glass | 0.123 | 48 | Break, no opening, totally pulled from frame |
| 2 | Film | 0.123 | 48 | Break, 2" tear*, totally pulled from frame |

*There is no provision in CPSC to test with sphere when sample is removed from the frame by impact. Sample was draped horizontally over a 22" x 34" container and the 3" diameter 4 lb sphere would not pass through when placed on the opening

Performance Data

| | | | |
|---------------------------|-------|-------------------------|------|
| Film Thickness | .004" | Emissivity | .86 |
| Solar Transmission | 86% | Winter U Value | 1.19 |
| Solar Reflectance | 7% | Winter Median U Value | 1.14 |
| Solar Absorption | 7% | Ultraviolet Transmitted | <5% |
| Visible Light Transmitted | 89% | Solar Energy Rejected | 14% |
| Visible Light Reflected | 9% | Shading Coefficient | .99 |

January 2018

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