3M™ SAFETY AND SECURITY WINDOW FILMS



ULTRA S600

Product Features & Benefits:

- Micro-layered film designed for tear resistance
- · Optically clear
- Applies to interior glass surfaces
- Helps protect from broken glass hazards
- Help extend the life of furnishings by significantly reducing harmful UV rays

Applications:

- · Bomb Blast Mitigation
- · Safety Glazing
- Helping to Deter Break & Entry
- Building Envelope Protection
- Spontaneous Glass Breakage
- · Seismic Preparedness







Product Specifications

| Visible Light Transmittance | 87% |
|------------------------------------|------|
| Glare Reduction | 2% |
| Solar Hear Gain Coefficient | .79 |
| Visible Light Reflectance Interior | 9% |
| Visible Light Reflectance Exterior | 9% |
| U-Value | 1.02 |
| UV Rejected | 9.9% |
| Shading Coefficient | 0.91 |
| Total Solar Energy Rejected | 21% |
| | |

^{*}Single Pane 1/4" (6mm) Clear

Sunray®

3M Authorized Dealer & Applicator

Willoughby:

2174 Lost Nation Road Willoughby, Ohio 44094

Independence:

5005 Rockside Road, Suite 600 Cleveland, Ohio 44131

Toll Free: 800-295-8468

www.sunrayfilms.com

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Commercial Solutions Division 3M Center, Building 220-12E-04 St. Paul, MN 55144 USA 3M.com/windowfilm

Film Properties

| Film Thickness | 6 mils | | |
|------------------------------|---------------|--|--|
| Film Construction | Micro-layered | | |
| TENSILE PROPERTIES (ASTM D88 | | | |
| Tensile Strength | 32,000 psi | | |
| Break Strength | 210 lbs/in | | |
| Elongation at Break | 115% | | |
| Yield Strength | 15,000 psi | | |
| Elongation at Yield | 9% | | |
| Modulus | 443 kpsi | | |
| | | | |

| | Graves Area Tear Resistance (ASTM D1004) 1,0 | 00lbs% | |
|---|---|---------|--|
| 1 | Puncture-Propagation-Tear Resistance (ASTM D2582) | 6 lbf | |
| 1 | Puncture Strength (ASTM D4830) | 140 lbf | |
| 1 | Abrasion Resistance (ASTM D1044) 3% | ∆haze | |
| | Peel Strength (ASTM D3330) | 8 lb/in | |
| | Flammability (ASTM E84) | Class A | |
| | SOLAR PROPERTIES - Film applied to 1/4" clear glass | | |
|] | Visible Light Transmitted | 87% | |
| 1 | UV Light Rejected | 99.9% | |

Ultra S600

