3M™ Scotchshield™ Safety & Security Window Film
Ultra Series Product Family

# Ultimate Protection
## for People and Property

Ultra Series

## Benefits

- Micro-layered, tear-resistant film for enhanced protection of people, property and possessions
- Mitigates hazards from shattered glass due to natural and human causes
- Helps protect people from flying glass shards, one of the most common causes of blast related injuries and fatalities
- Increases security and provides added protection against smash and grab burglaries
- Can be combined with 3M™ Impact Protection attachment systems for additional safety and security
- Helps extend the life of furnishings by significantly reducing harmful UV rays, the largest cause of fading
- Comprehensive warranty from 3M

3M products are tested to multiple industry standards. Results are available upon request in order to assist you in both product selection and help you meet local building requirements and or standards.

| | Ultra S600 | Ultra S800 |
|---|---|---|
| Blast Mitigation | ★★★½ | ★★★★ |
| Break and Entry | ★★★ | ★★★★ |
| Safety Glazing | ★★★★ | ★★★★ |
| Seismic | ★★★★ | ★★★★ |
| Windstorm | ★★★★ | ★★★★ |

*In comparison to other 3M™ Safety & Security Window Films*

Best ★★★★ Better ★★★ Good ★★ Fair ★

Valued Associations & Alliances

ENERGY STAR PARTNER

INTERNATIONAL WINDOW FILM ASSOCIATION

CLINTON CLIMATE INITIATIVE

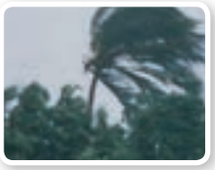
EWFA

3M

## Bomb Blast and Explosion Protection

- Help protect people from flying glass shards, one of the most common causes of blast related injuries and fatalities

**Completed Testing**
- ASTM F1642
- GSA TS01-2003



## Windstorm and Debris Protection

- Help reduce damage by water or debris, even if the window is broken
- Help protect occupants, assets and maintain continuity of operations

**Completed Testing**
- ASTM E 1886/1996
- ASTM E330

## Safety Glazing and Human Impact

- Upgrade your glass to meet safety glazing codes
- Help protect your occupants from broken glass hazards

**Completed Testing**
- ANSI Z97.1
- 16 CFR CPSC 1201

## Break and Entry

- Provides precious time by helping to deter unwanted individuals from entering your building or home
- Help protect occupants and assets

**Completed Testing**
- Forced entry demonstration at 3rd party test facility

## Seismic and Spontaneous Glass Breakage

- Help keep glass fragments from falling from your windows, protecting people and potentially reducing injuries on your property

**Completed Testing**
- ANSI Z97.1
- 16 CFR CPSC 1201

## Film Properties (nominal) — not for specification purposes

| Film Type | Film Thickness | Construction | Tear Resistance | Tensile Strength | Break Strength | Elongation at Break | Peel Strength | Abrasion Resistance |
|---|---|---|---|---|---|---|---|---|
| Ultra S600 | 6 mil (0.15mm) | Micro-layered | 1,000 lbs% | 28,000 psi (172 MPa) | 168 lbs/in (747 N / 25mm) | 140% | > 8 lbs/in (36 N / 25mm) | <5% |
| Ultra S800 | 8 mil (0.20mm) | Micro-layered | 1,200 lbs% | 28,000 psi (172 MPa) | 224 lbs/in (996 N / 25mm) | 130% | > 8 lbs/in (36 N / 25mm) | <5% |

**Warranty, Limited Remedy and Disclaimer:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. User is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application. Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. **3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE.** If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. **Limitation of Liability:** Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

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