

3M™ Safety & Security Window Film  
Ultra Night Vision Product Family



Ultra Night Vision

# Low Reflection Ultimate Protection



## Benefits

- Combines the benefits of 3M™ Ultra Series with the benefits of 3M™ Night Vision™ Series Window Film
- Micro-layered, tear-resistant film for enhanced protection of people, property and possessions
- Helps to increase security and provide added protection against smash and grab burglaries
- Enhanced views with low interior reflectivity, especially at night
- Helps reduce glare and eye discomfort
- Great heat rejection helps provide energy savings and improved comfort
- 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.

Break and Entry	★★★★	Energy Savings	★★★
Safety Glazing	★★★★	Heat Rejection	★★★
Seismic	★★★★	Glare Reduction	★★★
Blast Mitigation	★★★★	Visible Reflection	★★★★★

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

Best ★★★★★ Better ★★★ Good ★★ Fair ★

## Valued Associations & Alliances





## Break and Entry

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

### Completed Testing — Ultra S600

- EN 356
- Forced Entry Demonstration at third-party test facility



## 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



## 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

## Product Performance & Technical Data

Glass Type (All 1/4")	Film Type	Visible Light			Total Solar Energy Rejected	Solar Heat Gain Coefficient	U Value	Solar Heat Reduction	UV Light Rejected	Glare Reduction	Visible Light to Solar Heat Gain Ratio
		Reflected (Interior)	Reflected (Exterior)	Transmitted							
Clear	Ultra NV S25	7%	19%	24%	60%	0.40	1.02	51%	99.9%	73%	0.6
Tinted	Ultra NV S25	7%	10%	15%	62%	0.38	1.02	40%	99.9%	73%	0.4
Double Clear	Ultra NV S25	8%	24%	22%	50%	0.50	0.47	28%	99.9%	73%	0.4
Double Tinted	Ultra NV S25	8%	11%	13%	62%	0.38	0.47	24%	99.9%	73%	0.3

## Film Properties — Nominal

Note: The following technical information and data is based upon limited 3M testing conditions and should not be used for specification purposes.

Film Type	Film Thickness	Construction	Tear Resistance	Tensile Strength	Break Strength	Elongation at Break	Peel Strength	Abrasion Resistance
Ultra Night Vision	8 mil (0.22mm)	Micro-layered	1,100 lbs%	27,000 psi (186 MPa)	215 lbs/in (956 N/25mm)	90%	> 4 lbs/in (18 N / 25mm)	3% Δ Haze

**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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### 3M Renewable Energy Division Window Films

3M Center, Building 235-2S-27  
St. Paul, MN 55144-1000  
3M.com/windowfilm

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