GEOASIS
SOLAR FILMS



Ultra Prestige

Excellent tear-resistant properties and solar control with 3M™ Scotchshield™ Safety & Security Window Film Ultra Prestige Series.

- Combines the benefits of 3M™ Ultra Series with the benefits of 3M™ Sun Control Window Film Prestige Series
- Micro-layered film designed for tear resistance and glass fragment retention
- Virtually clear (70% Visible Light Transmission) with solar heat rejection properties
- For application only to interior glass surfaces of windows and doors
- Low interior reflectivity offers enhanced views
- Engineered to help hold broken glass in place
- Helps prevent flying glass shards from harming occupants and damaging property
- Blocks up to 99% of the sun's harmful UV rays, the largest single cause of fading
- Product must be installed with the 3M™ Impact Protection Attachment (IPA) Sealant for all windstorm, break & entry, and explosion mitigation applications and for all spontaneous glass breakage applications on single pane tempered glass (product is not bulletproof and is not designed to stop intruders)
- Comprehensive warranty from 3M

Break and Entry	★★★★½
Safety Glazing	★★★★★
Seismic	★★★★★
Blast Mitigation	★★★★★
Visible Light Transmission	★★★★★
Low Reflection	★★★★★
Infrared Rejection	★★★★★

Best ★★★★★
Better ★★★★
Good ★★★
Fair ★★

Ratings in comparison to other 3M™ Safety & Security Window Films

3M | Authorized Installer
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Valued Associations and Alliances:

CLINTON FOUNDATION | CLINTON CLIMATE INITIATIVE
ENERGY STAR PARTNER
EWFA EUROPEAN WINDOW FILM ASSOCIATION
IWFA INTERNATIONAL WINDOW FILM ASSOCIATION
U.S. GREEN BUILDING COUNCIL LEED USGBC



Break and Entry

- Can help delay intruders and help provide extra response time by slowing the intruder down

Performance Testing

- 3M proprietary tests



Safety Glazing

- Can be used in certain instances to help upgrade facilities to building codes
- Help prevent flying shards of glass from harming building occupants or damaging property

Performance Testing

- ANSI Z97.1
- EN 12600



Blast Mitigation

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

Performance Testing

- ASTM F1642
- GSA TS01-2003

Solar Properties — not for specification purposes

Glass Type (All 1/4")	Film Type	Visible Light			Total Solar Energy Rejected	Solar Heat Gain Coefficient (G Value)	U Value		Solar Heat Reduction	UV Light Rejected	Glare Reduction	Visible Light to Solar Heat Gain Ratio
		Reflected (Interior)	Reflected (Exterior)	Transmitted			btu/ hft²F	w/ m²K				
Clear	Ultra PR S70	9%	10%	68%	50%	0.51	1.02	5.8	38%	99.9%	23%	1.4
	Ultra PR S50	7%	9%	48%	56%	0.44	1.02	5.8	46%	99.9%	46%	1.1
Tinted	Ultra PR S70	8%	6%	41%	56%	0.44	1.02	5.8	30%	99.9%	23%	0.9
	Ultra PR S50	7%	6%	29%	60%	0.40	1.02	5.8	37%	99.9%	45%	0.7
Double Clear	Ultra PR S70	13%	16%	61%	44%	0.56	0.47	2.7	20%	99.9%	23%	1.1
	Ultra PR S50	9%	15%	43%	47%	0.53	0.47	2.7	25%	99.9%	46%	0.8
Double Tinted	Ultra PR S70	12%	9%	37%	58%	0.42	0.47	2.7	17%	99.9%	23%	0.9
	Ultra PR S50	9%	9%	26%	60%	0.40	0.47	2.7	21%	99.9%	46%	0.6

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 Prestige	8 mil (0.22 mm)	Micro-layered	1,100 lbs%	25,300 psi (186 MPa)	200 lbs/in (956 N/25mm)	117%	> 4 lbs/in (18 N/25mm)	<3% Δ Haze

IMPORTANT: This is an overview of product features and benefits. Prior to product selection, always refer to the current 3M Technical Data Sheet and 3M Technical Specifications for more detailed product information.

IMPORTANT PRODUCT AND APPLICATION LIMITATIONS: Many factors can contribute to potential hazards and damages arising from wind, impact, seismic, explosion, or break and entry incidents, including the window film selected, type and thickness of glass, building construction, exterior pressure, proximity of impact occurrence, quality of window or door frames, intruder size and strength, and type of tools used to gain entry. Certain 3M™ Window Films require the use of 3M™ Impact Protection Attachment (IPA) Sealant on glass window and door frames for windstorm, break & entry, and explosion mitigation applications and for spontaneous glass breakage applications on single pane tempered glass. The sealant may also be recommended for certain other spontaneous glass breakage, safety glazing, and seismic applications. Always refer to the 3M Technical Data Sheets and 3M Technical Specifications to determine whether these combinations are required. **CAUTION**: While 3M™ Window Films, when applied in accordance with 3M instructions, may help reduce the impact of flying glass shards under certain conditions and potentially delay intruders, these films do not prevent property damage, personal injury, or death. **CAUTION:** Window films are not bulletproof and not designed to stop intruders. Always consult with security professionals and a 3M Authorized Window Film Dealer prior to selecting any window films to determine suitability for the intended application.

IMPORTANT STATE OF FLORIDA NOTICE: This product is not approved in the State of Florida for use as hurricane, windstorm, or impact protection from wind-borne debris from a hurricane or windstorm. In compliance with Florida Statute 553.842, this product may not be advertised, sold, offered, provided, distributed, or marketed in the State of Florida as hurricane, windstorm, or impact protection from wind-borne debris from a hurricane or windstorm.

Warranty, Limited Remedy, and Disclaimer: Please refer to the Warranty Bulletin for 3M™ Window Films (Flat Glass Applications) and 3M™ Impact Protection Attachment (IPA) Sealant for complete details on warranty coverage, which can be obtained by contacting your 3M Authorized Window Film Dealer or your local 3M sales representative. If a 3M product does not conform to the warranties described in this Warranty Bulletin, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. Except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

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Break & Entry: Add a layer of protection.

Glass doors and windows are among the weakest points of entry into your facility. Help strengthen your glass with 3M™ Safety & Security Window Films combined with 3M™ Impact Protection Attachment (IPA) Sealant.

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- Help delay intruders in break and entry incidents
- May provide added protection to property from smash and grab burglaries
- Makes it more difficult to get through your window, helping to reduce your property losses
- Helps hold broken glass in place
- Helps prevent flying glass shards from harming occupants and damaging property
- Cost effective solution compared to replacing all the windows and doors
- Window films are not bulletproof and are not designed to stop intruders

Home.

While potential intruders will not be stopped from entering your home, 3M™ Safety & Security Window Film combined with 3M™ Impact Protection Attachment (IPA) Sealant may delay forced entry and help provide extra response time by slowing the intruder down.



Business.

You need to display your merchandise next to your windows, but your windows are one of the weakest points of entry on a building. 3M™ Safety & Security Window Films combined with 3M™ Impact Protection Attachment Sealant makes it more difficult to get through your window, helping to reduce your losses during smash and grab crimes.



School.

School facilities actively look for solutions to enhance their safety and security measures. While potential intruders will not be stopped from entering a school building, 3M™ Safety & Security Window Films combined with the 3M™ Impact Protection Attachment (IPA) Sealant can help delay intruders and help provide extra response time by slowing the intruder down.

3M.com/WindowFilm.

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