

**3M** Science.  
Applied to Life.™

Safety Series

## Protect tenants and your property even on a budget with 3M™ Safety & Security Window Film.

- ▶ Mitigates hazards from shattered glass due to natural and human causes
- ▶ Increases security and provides added protection against smash and grab burglaries
- ▶ Helps provide protection to people and property from flying glass in natural disasters
- ▶ Increases anti-spall protection for laminated glass
- ▶ 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

	S40	S70	S80	S140
Break and Entry	★	★★★	★★★	★★★★★
Safety Glazing	★★★	★★★★★	★★★★★	★★★★★
Seismic	★★★★	★★★★★	★★★★★	★★★★★
Blast Mitigation	★	★★★★	★★★★	★★★★
Anti-Graffiti	★★	★★★	★★★	★★★★

Best ★★★★★  
 Better ★★★★  
 Good ★★★  
 Fair ★★  
 Not Recommended ★

Valued Associations and Alliances:



CLINTON CLIMATE INITIATIVE





### 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

- ▶ EN 356
- ▶ UL 972
- ▶ ULC 332

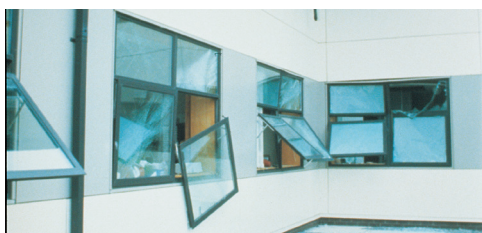


### Safety Glazing and Human Impact

- ▶ 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
- ▶ EN 12600



### Seismic and Spontaneous Glass Breakage

- ▶ Glass fragment retention film for increased protection for people, property and possessions

#### Completed Testing

- ▶ ANSI Z97.1
- ▶ 16 CFR CPSC 1201
- ▶ EN 12600



### 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
- ▶ ISO 16933

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

Film Type	Film Thickness	Construction	Tensile Strength	Break Strength	Elongation at Break	Peel Strength	Abrasion Resistance
Safety S40	4 mil (0.10mm)	Single ply	25,000 psi (172 MPa)	100 lbs/in (445 N / 25mm)	>125%	> 4 lbs/in (18 N / 25mm)	<5%
Safety S70	7 mil (0.18mm)	Single ply	25,000 psi (172 MPa)	175 lbs/in (778 N / 25mm)	>125%	> 5 lbs/in (22 N / 25mm)	<5%
Safety S80	8 mil (0.20mm)	2-ply	25,000 psi (172 MPa)	200 lbs/in (890 N / 25mm)	>125%	> 2 lbs/in (9 N / 25mm)	<5%
Safety S140	14 mil (0.36mm)	3-ply	25,000 psi (172 MPa)	350 lbs/in (1,557 N / 25mm)	>125%	> 2 lbs/in (9 N / 25mm)	<5%

3M products are tested to multiple industry standards. Glazing systems vary. Contact 3M for more information.

\*Building codes vary, please consult with 3M and your local code official.

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