



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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