## Protecting People and Property



Break and E<mark>ntry</mark>

Seismic

Windstorm

## **Benefits**

- Mitigates hazards from shattered glass due to natural and human causes
- Increases security and provides added protection against smash and grab burglaries
- Provides protection to people and property from flying glass in windstorms and seismic activity
- Increases anti-spall protection for laminated glass
- Can be combined with 3M<sup>™</sup> 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

 $\star \star \star \star$  Best (preferred product for this application)

 $\star$   $\star$  Better (suitable for this application)

- ★ ★ Good (some limited benefits in this application)
- ★ Fair (other products more suitable for this application) NR (Not recommended)

	S40	S70	S80	S140
Break and Entry	NR	$\star\star$	**	****
Safety Glazing	$\star\star$	$\star \star \star$	***1	***1
Seismic	$\star \star \star$	$\star \star \star \star$	$\star \star \star \star$	****
Windstorm	NR	NR	NR	$\star \star \star$
<b>Blast Mitigation</b>	NR	$\star \star \star$	$\star \star \star$	***
Anti-Graffiti	$\star$	$\star\star$	**	***

## Valued Associations & Alliances





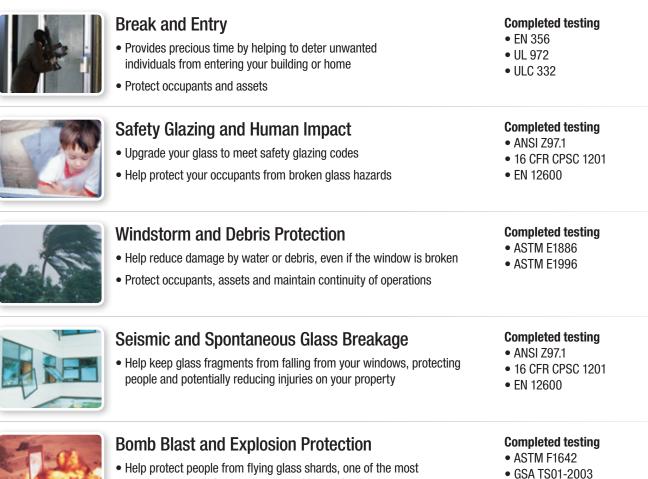












common causes of blast related injuries and fatalities

• 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%	> 5 lbs/in (22 N / 25mm)	<5%
Safety S70	7 mil (0.18mm)	Single ply	25,000 psi (172 MPa)	175 lbs/in (778 N / 25mm)	>125%	> 6 lbs/in (27 N / 25mm)	<5%
Safety S80	8 mil (0.20mm)	2-ply	25,000 psi (172 MPa)	200 lbs/in (890 N / 25mm)	>125%	> 4 lbs/in (18 N / 25mm)	<5%
Safety S140	14 mil (0.36mm)	3-ply	25,000 psi (172 MPa)	350 lbs/in (1,557 N / 25mm)	>125%	> 6 lbs/in (27 N / 25mm)	<5%

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