



Science.  
Applied to Life.™

Solar Safety

PERFORMA  
WINDOW FILMS

## Save energy, enhance tenant comfort, provide added safety and privacy on a budget with 3M™ Safety & Security Window Film Solar Safety Series.

- ▶ Combines the benefits of 3M Safety Series with the benefits of 3M Neutral 35 and 3M Silver P18 Series Sun Control Window Films
- ▶ Helps protect people from flying glass shards, one of the most common causes of blast related injuries and fatalities
- ▶ Great heat rejection helps provide energy savings and improved comfort
- ▶ Helps reduce glare and eye discomfort
- ▶ Silver or Neutral tones can create a more uniform exterior appearance
- ▶ Increased reflection helps enhance exterior privacy
- ▶ Can be combined with 3M™ Impact Protection Attachment Systems for additional safety and security
- ▶ Comprehensive warranty from 3M

Energy Savings	★★★★★
Glare Rejection	★★★★★
Visible Reflection	★★
Visible Transmission	★★
Blast Mitigation	★★★★
Break and Entry	★★★★☆
Safety Glazing	★★★★
Seismic	★★★★★

Best ★★★★★

Better ★★★★☆

Good ★★★☆☆

Fair ★★☆☆☆

Not Recommended ★☆☆☆☆

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

## All-around protection. On budget.



Valued  
Associations  
and Alliances:





## Break and Entry

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



## 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



## Seismic and Spontaneous Glass Breakage





- ▶ Help keep glass fragments from falling from your windows, help protect people and potentially reduce injuries on your property

### Completed Testing

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

3M products are tested to multiple industry standards. Results are available upon request to assist you in product selection and to help you meet local building requirements and/or standards.

## Product Performance and Technical Data

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/ hft <sup>2</sup> F	w/ m <sup>2</sup> K				
 Clear	Neutral S35	13%	23%	39%	57%	0.43	1.02	5.8	47%	99%	56%	0.8
	Silver S20	62%	61%	18%	76%	0.25	1.02	5.8	70%	99%	80%	0.7
 Tinted	Neutral S35	8%	22%	23%	64%	0.36	1.02	5.8	42%	99%	56%	0.6
	Silver S20	62%	25%	11%	71%	0.30	1.02	5.8	53%	99%	80%	0.3
 Double Clear	Neutral S35	14%	27%	35%	51%	0.49	0.47	2.7	30%	99%	55%	0.6
	Silver S20	62%	59%	17%	67%	0.33	0.47	2.7	53%	99%	79%	0.4
 Double Tinted	Neutral S35	14%	13%	21%	62%	0.38	0.47	2.7	25%	99%	56%	0.5
	Silver S20	62%	24%	10%	72%	0.28	0.47	2.7	45%	99%	79%	0.3

## Film Properties (nominal)

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

Film Type	Film Thickness	Construction	Tensile Strength	Break Strength	Elongation at Break	Peel Strength	Abrasion Resistance
Safety Solar Series	0.008" (0.20 mm)	Laminated	25,000 psi (172 MPa)	200 lbs/in (890 N/25mm)	85%	> 3 lbs/in (13 N/25mm)	<5% haze increase

**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.



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

3M is a trademark of 3M.  
Used under license in Canada.

Please recycle. Printed in the U.S.A.  
© 3M 2016. All rights reserved.  
98-0150-0749-9