

3M Science.
Applied to Life.™

3M™ Commercial Window Films

**Engineered to
enhance your
investment.**

Sun Control

Safety

Security

Decorative

One company. Endless possibilities.

A building that's more secure, comfortable, energy efficient and beautiful could mean greater tenant retention, potentially higher lease revenue and a healthier bottom line for you.

Imagine if you could help:

- ▶ Reduce high energy bills yet keep tenants cool, comfortable and satisfied
- ▶ Protect people and property from flying glass shards that can result from windstorms, break and entry, and explosions
- ▶ Block up to 99% of the sun's UV rays, the largest single cause of fading
- ▶ Customize glass for elegance and privacy or make bold architectural statements

All this is possible from one trusted source — 3M.

Window Films are not approved in the State of Florida for use as hurricane, windstorm, or impact protection from wind-borne debris from a hurricane or windstorm.

Outsmart the sun.

Windows provide an abundance of beautiful natural light. They can also create problems such as cool or drafty areas, excessive heat from the sun and distracting glare — issues that can impact tenant comfort, occupancy rates, energy bills and profits. Choose clear films with reflectivity lower than glass for exceptional sun control and beautiful views inside and out.

Control sunlight on your terms with 3M™ Sun Control Window Films that are engineered to help provide:

- ▶ Cost savings
- ▶ Increased tenant comfort — hot spots, cold spots and glare
- ▶ Enhanced privacy
- ▶ UV fade protection

An estimated

28%

of cooling expenses
are due to solar heat
gain from windows

Simple retrofit. Easy to install.

Window film is considered a top-tier technology for energy conservation. Consider making building envelope improvements before investing in major HVAC system upgrades to maximize profits.

Upgrading with 3M™ Sun Control Films can help reduce energy use by as much as 19 kWh per square foot (205 kWh/m²) of windows.



Keep tenants comfortable. Keep them put.

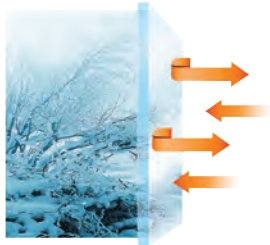
Nothing hurts tenant retention like an uncomfortable building. Throughout it all, your HVAC system is working overtime.

Reduce excessive heat.

Is your building hot in the summer? When the sun makes one side too hot, is the other side too cold?

3M™ Window Films reject up to 81% of the sun's heat to help keep rooms at more even, moderate temperatures. In fact, our films can help reduce the indoor room temperature in direct sunlight by as much as 9°F (5°C), making your space more comfortable and usable.

Warm in the winter.
3M technology helps retain the heat and keep you warmer in the winter.



Cool in the summer.
3M technology helps block the sun's heat and keep you cooler in the summer.

Reduce cold spots.

Did you know that your window can lose as much as 20X more heat in the winter than the same area in an adjacent wall?* 3M™ All Season Window Films help improve the insulation value of your window to help keep the heat in.

*Cornell Cooperative Extension, Cornell University.

Reduce glare.

Few things are as frustrating as viewing monitors in a sunlit room. 3M™ Window Films significantly reduce glare so tenants can get work done without added discomfort.

Need to merchandise? Our films even help keep displays looking beautiful and true to life.

Reduce indoor
temperatures by
as much as

9°F (5°C)

in direct sunlight



Fade protection.

Museums and historic buildings such as the Rock and Roll Hall of Fame and Museum use 3M™ Window Films to help protect their treasured collections and furnishings from the damaging sun. Our films reject up to 99% of UV rays and reduce glare to help keep visitors cooler and more comfortable.



Keep it operational 24/7/365.

Windows are among the weakest points in your building envelope.

Should the glass break, it could cause significant disruption to daily operations.

3M™ Safety and Security Window Film combined with 3M™ Impact Protection Attachment (IPA) Sealant are engineered to help hold broken glass in place and help prevent flying glass shards from harming occupants and damaging property. And with a film still in place, it may allow you to maintain operations while you replace glass.

Extra layer of protection during:

- ▶ Natural disasters
- ▶ Seismic events
- ▶ Spontaneous glass breakage
- ▶ Break and entry
- ▶ Explosions



Help strengthen windows against natural disasters.

When windows break due to natural disasters, the cost to replace them could pale in comparison to other costs, including:

- ▶ Loss of business operations for you and your tenants
- ▶ Damaged electronics
- ▶ Water and debris damage

Prepared for the storm. All day, every day.

Combined with 3M™ Impact Protection Attachment (IPA) Sealant, 3M™ Scotchshield™ Safety and Security Window Film Ultra Series or 3M™ Scotchshield™ Security Window Film S2400 can help:

- ▶ Provide protection to people and property from flying glass shards in natural disasters such as windstorm events
- ▶ Hold broken glass in place
- ▶ Reduce damage from water and debris
- ▶ Reduce damage inside the building — get your building up and running faster

Help strengthen glass in seismic events.

During an earthquake, windows can be subjected to tremendous stress. They may shatter or fall out of window frames, presenting risks to occupants, pedestrians and property.

3M™ Safety and Security Window Films combined with the 3M™ Impact Protection Attachment (IPA) Sealant can help:

- ▶ Provide protection to people and property from flying glass shards
- ▶ Retain the broken glass within the frame
- ▶ Prevent glass fragments from falling from windows, balconies, and guardrails
- ▶ Allow for continued building occupancy while glass is replaced



On average,
\$207B
in losses are due to
natural catastrophes
every year*

Help protect against spontaneous glass breakage.

Tempered glass is stronger than standard annealed glass, but factors such as imprecise installation or impurities in the tempered glass can result in spontaneous glass breakage.

3M™ Safety and Security Window Film combined with 3M™ Impact Protection Attachment (IPA) Sealant can help:

- ▶ Retain the broken glass within the frame
- ▶ Prevent glass fragments from falling from windows, balconies, and guardrails

*<http://www.iii.org/fact-statistic/catastrophes-global>

Help increase security.

3M™ Safety and Security Window Films combined with the 3M™ Impact Protection Attachment (IPA) Sealant helps prevent flying glass shards in break and entry and blast applications, and our 3M™ Anti-Graffiti Films help protect the glass surface from vandalism, graffiti, etching, scratches and abrasion.



Break and entry.

Glass doors and windows are among the most vulnerable points of entry into your facility. Add a level of security with 3M™ Safety and Security Window Films combined with the 3M™ Impact Protection Attachment (IPA) Sealant.

- ▶ 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 losses
- ▶ Window films do not stop bullets or intruders



Security

3M™ Impact Protection Attachment (IPA) Sealant

This liquid caulk edge retention sealant when combined with 3M™ Safety and Security Window Films helps anchor the filmed glass to the window frame and is engineered to help hold window films within a glass window or glass door.

3M Window Films must be installed with the 3M™ Impact Protection Attachment (IPA) Sealant for all windstorm, break and entry, and explosion mitigation applications and for all spontaneous glass breakage applications on single pane tempered glass.



Mitigate blast hazards.

Accidental or intentional explosions are risks for many industrial, lab, manufacturing, and government facilities.

Combined with 3M™ Impact Protection Attachment (IPA) Sealant, 3M™ Scotchshield™ Safety and Security Window Film Ultra Series or 3M™ Scotchshield™ Security Window Film S2400 have been tested to industry blast-related standards. Refer to published 3M Technical Bulletins and 3M Technical Specifications for details.

Performance testing

- ▶ ASTM F1642
- ▶ GSA TS01-2003



Say no to graffiti.

Whether applied to windows or mirrored surfaces, such as in transit stops, bathrooms or retail displays, 3M™ Anti-Graffiti Window Films help provide surface protection against vandalism, graffiti, etching, scratches, and abrasion.

If damage is done, these removable films allows you to simply replace the film for a fraction of the cost.

3M™ DICHROIC Glass Finishes

Be bold. Make a lasting impression.

Create a dynamic one-of-a-kind architectural masterpieces at a fraction of the cost of color-shifting glass.

3M™ Dichroic Glass Finishes have a color-shifting appearance of cool or warm tones, influenced by the lighting conditions and viewing angles. Easy to apply to both interior and exterior glass surfaces.



Decorative



3M™ FASARA™ Glass Finishes

Customize interior glass for elegance and privacy.

Decorative 3M™ FASARA™ Glass Finishes and 3M™ Dusted and Frosted Crystal Glass Finishes transform plain glass, so you can capture the look of cut or texturized glass at a fraction of the cost.

The films are perfect for interior glass partitions and inside surfaces of exterior windows. Use them to help:

- ▶ Define interior spaces, while keeping an open feel
- ▶ Customize privacy without sacrificing light
- ▶ Create die-cut designs for branding purposes
- ▶ Hide unwanted spaces

Customize privacy. Let in the light.

With our many options in style, opacity and translucency, you can tailor the amount of privacy you want for a space without sacrificing light.

Simple application means they're easy to change based on tenant preference.



Proven. Trusted.

Proven: 3M™ Window Films are engineered to resist peeling, bubbling, scratching and abrasion for long-lasting beauty and clarity. That's because we subject our films to rigorous durability tests — even natural disasters and blasts. We expose our films at the most advanced weathering facilities in the world, so you can count on excellent performance, and durability.



Trusted: 3M is a global innovation company that never stops inventing. We earned the world's first patent for sun control window film in 1966. And today, there are millions of buildings with 3M™ Window Film installed around the world.

By sharing ideas across 40+ core technologies and combining them in imaginative ways, we continue to introduce new-to-the-world products that enhance your life. Helping to keep your environment more protected, comfortable, energy efficient and beautiful.

When you choose 3M, you choose a trusted partner. We offer one of the most comprehensive warranties in the industry — from a company you know will be around.

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.



For more information or to find a 3M Authorized Window Film Dealer, please call 1-866-499-8857 or visit us at [3M.com/WindowFilm](https://www.3M.com/WindowFilm).

IMPORTANT: This is an overview of product features. References to explosions or blasts apply only to commercial and non-educational government facility applications. Prior to product selection, always refer to the current 3M Technical Data Sheet for detailed product information.

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. WINDOW FILMS ARE NOT BULLETPROOF AND NOT DESIGNED TO STOP INTRUDERS.**

CAUTION: Although certain 3M™ Window Films help block a certain percentage of UVA and UVB radiation and may have received The Skin Cancer Foundation Seal of Recommendation, the efficacy of these films in protecting against skin cancer has not been tested by 3M and **3M™ WINDOW FILMS DO NOT PREVENT SKIN CANCER.**

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. **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.

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WARRANTY, LIMITED REMEDY, AND DISCLAIMER: Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 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. **3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE.** If a 3M product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.



**Commercial Branding and
Transportation**

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