

**GRAFFITI FREE**<sup>®</sup>  
BY MADICO

*Product Guide*

**GRAFFITI FREE**<sup>®</sup>  
BY MADICO



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**MADICO**<sup>®</sup>

The Clear Choice for Safety & Security Film

## Prevent Permanent Damage from Vandalism

Madico Graffiti Free films act as a sacrificial barrier to help control vandalism and provide a cost-effective alternative to replacing damaged glazing. Graffiti Free films are easily installed and replaced so glazing will always look its best.

Effective in transit systems and other high traffic public areas, Graffiti Free is the solution to keeping vandals at bay. Once defaced, the film is removable for easy replacement, improving turnaround time for maintenance and saving cities thousands of dollars each year in costly repairs.

Graffiti Free frequently is applied on retail windows, in schools and other places where graffiti and vandalism are common problems. By installing Graffiti Free film, glass is protected and financial resources can be used for more important projects.

Graffiti Free also helps increase glass safety by holding broken glass together in the event of glass breakage due to vandalism or accidents.



### Graffiti Free Benefits:

- Invisible vandalism protection
- Optically clear
- Easy installation and removal
- Retains broken glass fragments
- Protects against scratches, spray paint and acid etching
- Cost-effective alternative to glass replacement
- Available in 4 and 6 mil versions

### Common Applications:

- Transit systems
- Retail storefronts
- Schools
- Elevators and escalators
- Vending machines
- Public restrooms
- Museums



Glazing Solutions for  
Safety and Security



### Manufactured by Madico

When you purchase Madico film, you can rest assured that you have selected a high quality and extensively tested product. Headquartered in the Tampa Bay region of Florida, Madico manufactures and distributes high performance window films for automotive, architectural, and safety and security applications through nine company-owned distribution centers in North America as well as an extensive international distribution network.

# GRAFFITI FREE<sup>®</sup>

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## Graffiti Free 600

Graffiti Free 600 helps prevent damage to glass from vandalism by providing a replaceable layer of protection. Graffiti Free is optically clear and can be used on the exterior or interior surface of glass. Popular uses include storefront windows, public transportation, restrooms, elevators and vending machines.

### Product Benefits

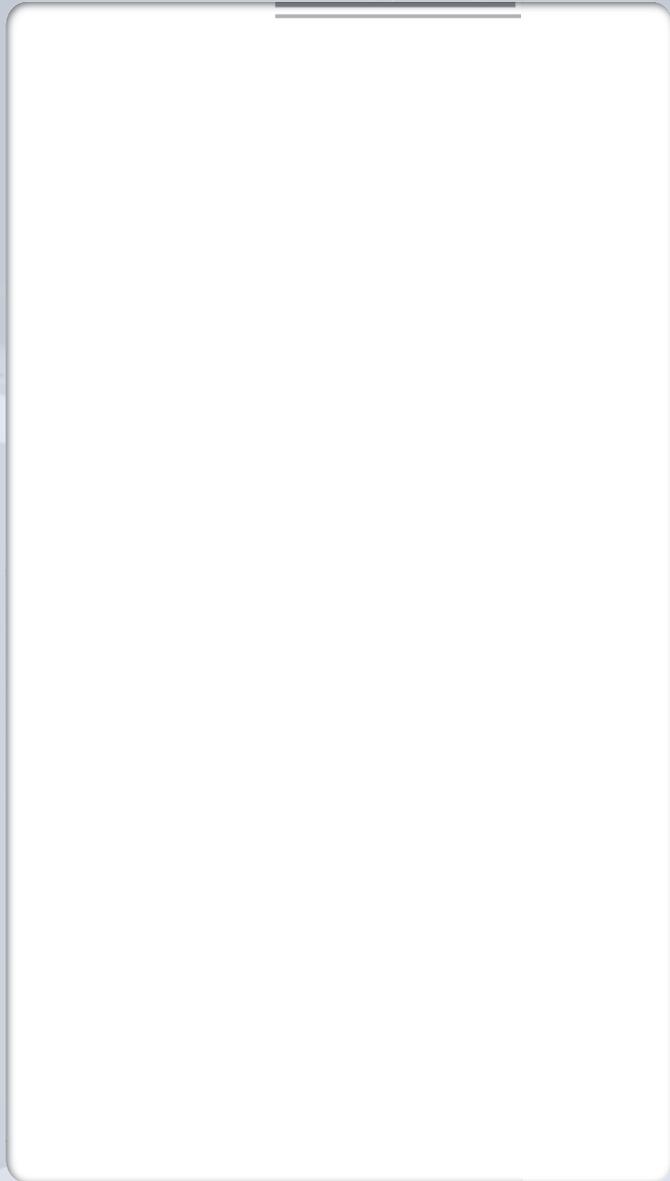
- Invisible Vandalism Protection
- Removable and easily Maintained
- Optically Clear and Distortion Free
- Holds Broken Glass Together

### Why Madico?

Madico window films are an elegant, practical solution for comfort, protection and natural appearance. With over 100 years of innovation, Madico is a leading provider of advanced products engineered to meet your needs. When selecting the right window film for your home or building, you can trust in our professionally installed quality products.

### About Madico

Headquartered in Tampa Bay, Florida, Madico, Inc. innovates, manufactures, and distributes a broad range of protective, functional and decorative materials-based solutions including films, coatings and laminates for various industries worldwide from automotive and architecture to healthcare and aerospace. Since 1903, Madico has pioneered industry-first products with an unrivaled commitment to quality and dedication to its customers. Madico is a fully-owned subsidiary of Lintec USA Holdings, Inc. For more information, visit [www.madico.com](http://www.madico.com).



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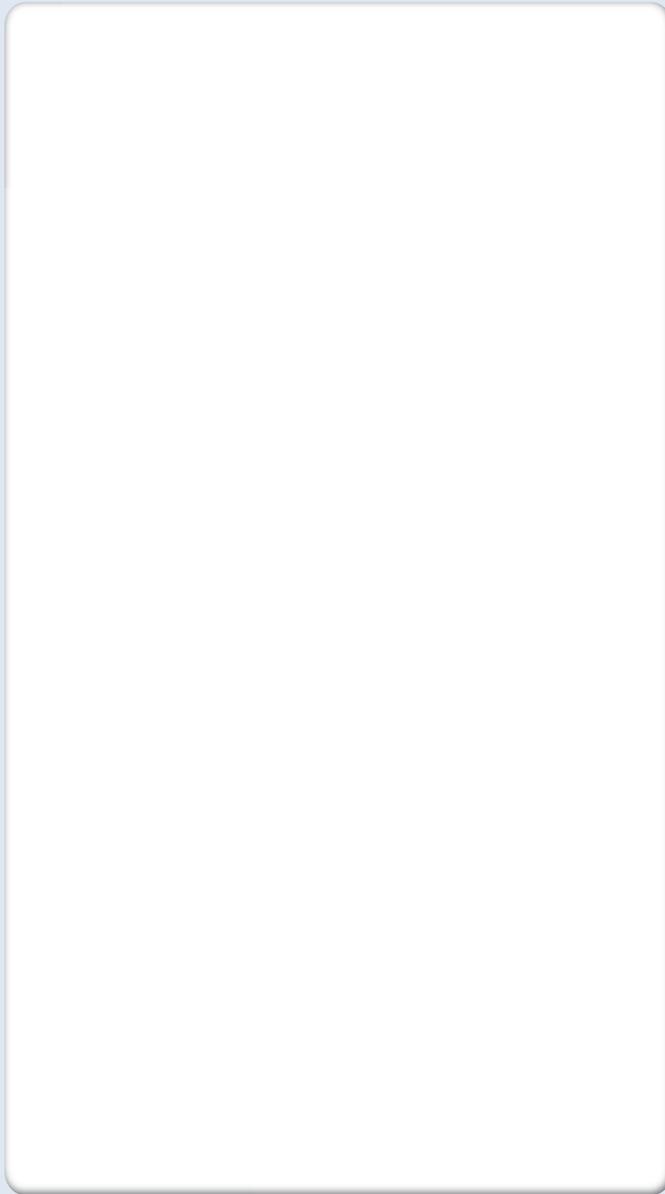
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Graffiti Free 600  
CSI Specification

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## Graffiti Free 600

### Performance Measurements

#### Visible Light:

Transmitted.....	87%
Reflected Exterior.....	10%
Reflected Interior.....	10%
Glare Reduction.....	3%

#### Total Solar Energy:

Transmitted.....	76%
Reflected .....	9%
Absorbed.....	15%

Shading Coefficient.....	0.93
Solar Heat Gain Coefficient.....	0.81
U Factor.....	1.02
Ultraviolet Rejection .....	exceeds 99%
Emissivity.....	0.84
Light to Solar Gain.....	1.07
Total Solar Energy Rejection.....	19%
Infrared Rejection*.....	29%
Infrared Energy Rejection .....	22%

#### Physical Properties:

Film Thickness .....	0.007"
Structural Component.....	0.006"
Structure .....	Multi-Ply Laminate
Adhesive Type .....	Acrylic Pressure Sensitive
Tensile Strength.....	25,000 PSI Avg. MD/TD
Break Strength.....	150 Pounds Per Inch (Width)
Peel Strength.....	3 to 4 Pounds Per Inch

\* Near IR range (780-2500nm)

Performance measurement definitions can be found at [www.madico.com](http://www.madico.com)

Read in accordance with National Fenestration Rating Council (NFRC) standards on 6mm clear glass.

Independent test reports available upon request

Graffiti Free is independently tested and certified to U.S.A. and international standards.



#### Specification Use Statement

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## PROJECT SUMMARY

Installer  
Team GK Glass Tinting

Type of Film  
Graffiti Free

Installation Date  
2013 With Ongoing Maintenance Contract

Windows Covered  
All Exterior Glass



## THE CHALLENGE

El Pollo Loco, a quick-service restaurant chain known for its authentically prepared flame-grilled, citrus-marinated chicken, freshly prepared ingredients and welcoming atmosphere, has been serving the Los Angeles, California area since the early 1980's. With continued expansion over the past 30 years, El Pollo Loco now operates over 400 company-owned and franchised restaurants in the Southwestern United States.

As part of its recent state-wide initiative to update the design of its California restaurants, the chain invested millions of dollars in the renovation of the look and layout of numerous locations. Once the face-lift was complete, management began to explore options that would allow the chain to maintain the fresh, updated look of each establishment and protect their investment.

## THE SOLUTION

Team GK Glass Tinting delivered the solution, Madico's Graffiti Free film. Graffiti Free film is designed to protect both glass and other smooth surfaces from harm. Optically clear and distortion-free, Graffiti Free window film acts a sacrificial barrier to protect glass from costly graffiti, etching, or high-traffic wear. After such an event has occurred, the damaged film is removed and a new layer is installed at a cost significantly less than the cost of removing and replacing the glass.

"I have been using Graffiti Free film for over 20 years and have never had a customer need to replace a window. The film does an amazing job of protecting the glass from damage," said Gil Guerra, owner of Team GK Glass Tinting.

El Pollo Loco chose to have the Graffiti Free film installed on the majority of its Los Angeles area restaurants as well as enter into a maintenance contract with the installer. The maintenance contract guarantees that any film-protected glass that is damaged by graffiti or etching will be quickly repaired through the application of a new layer of Graffiti Free film.

## THE RESULTS

Management at the various El Pollo locations is pleased with the results of the installation. With the ability to quickly remove any graffiti, their patrons can continue to be welcomed into a pleasant dining atmosphere. The fast removal also prevents recidivism of vandals from taking place at the same location. The El Pollo Loco chain will continue renovations to its restaurants across the Southwest with Graffiti Free film playing a key role in protecting the new exterior glass from damage.

# UV GARD

BY MADICO

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Product Guide



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## Reduce Fading With Clear UV Protection

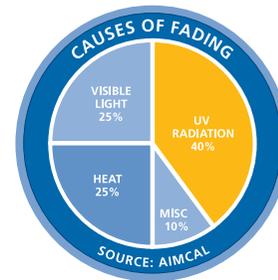
UV Gard window film from Madico filters out more than 99% of ultraviolet light while still allowing the maximum amount of visible light into a space. This optically clear film is designed with museums and retail storefronts in mind where both maximum light transmission and fade control are necessary.

UV Gard has proven to be an excellent choice for homes, schools and office buildings where UV exposure is a health concern. Hospitals and nursing home facilities also benefit by being able to offer additional protection to their patients and staff.

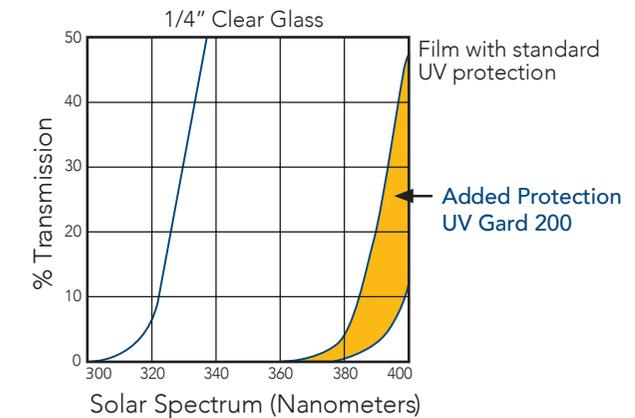
Museum curators understand the profound effect that the UV exposure has on antiquities and appreciate the added layer of protection that UV Gard offers. Retail store owners are always striving to protect their goods from damaging UV rays while still attracting buyers in off the street. UV Gard delivers the protection they need without altering the view.

UV Gard blocks more than 99% of ultraviolet light in the range of 300 to 385 nanometers. Most clear window films block UV rays only up to 375 or 380nm, but UV Gard's protection up to 385 nm starts to cover the lower portion of the visible light spectrum - a region which also contains harmful UV rays. This ability to block this lower portion of the visible light spectrum is what sets UV Gard apart from standard films.

While many different factors contribute to fading, ultraviolet light is one of the main causes and can result in damage to furnishings, flooring, artwork and your skin.



### UV Gard Film Properties:

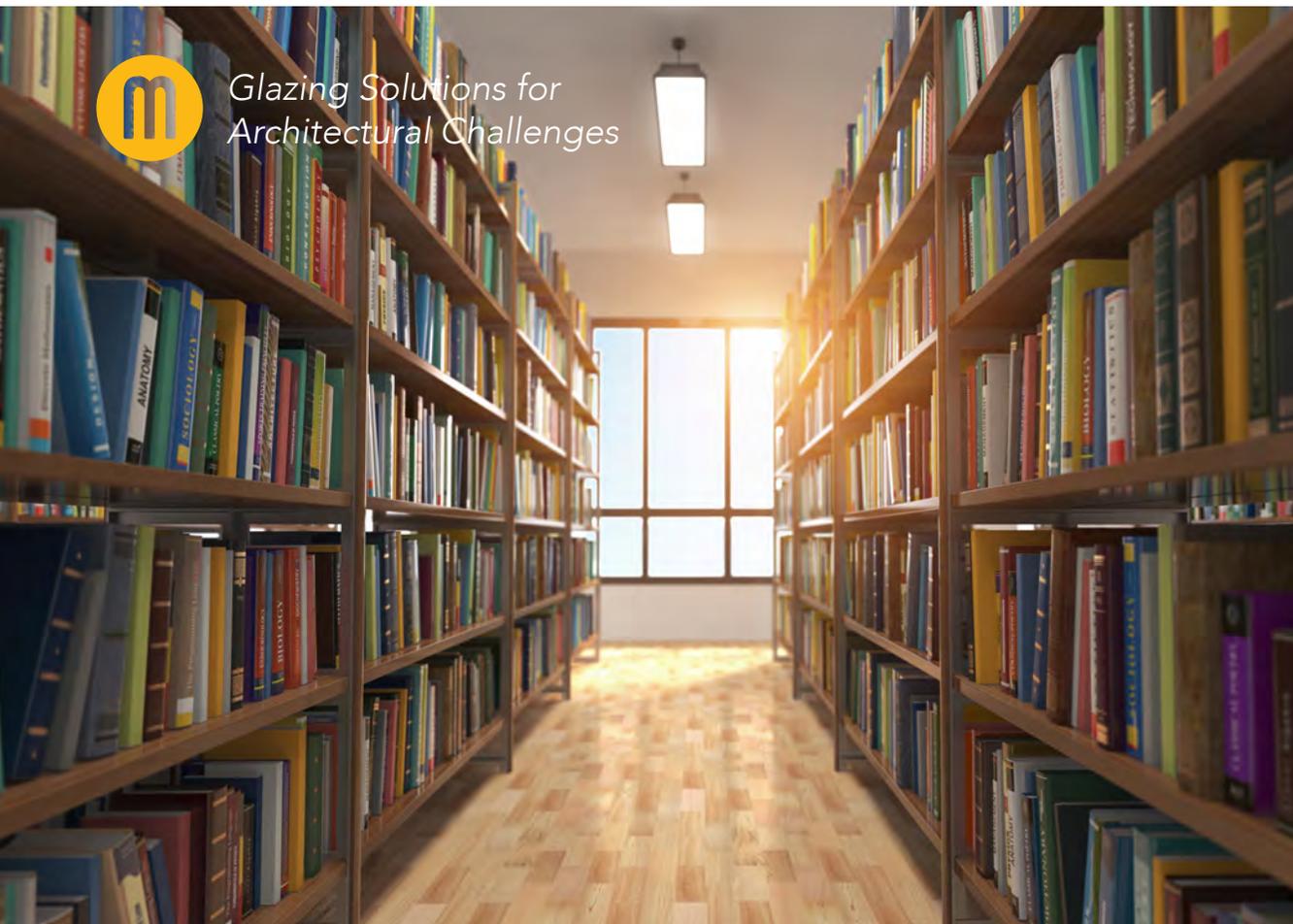


### UV Gard Benefits:

- Rejects more than 99% of UV rays
- Optically Clear
- Protects merchandise from fading
- Prevents UV damage
- Holds glass fragments together
- Allows maximum light transmission

### Common Applications:

- Museums
- Retail storefronts
- Libraries
- Display cases
- Historic buildings
- Hospitals and labs



Glazing Solutions for Architectural Challenges



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# UV GARD

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## UV Gard 200

UV-Gard is an optically clear, UV rejecting film which can be used in applications where maximum light transmission and fade control is desired, such as in museums or retail storefronts. UV Gard can also be used in homes or buildings where excessive UV exposure is a health concern.

### Product Benefits

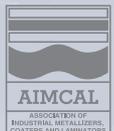
- Optically Clear and Distortion Free
- Rejects over 99% of Damaging UV Rays
- Reduces Fading of Interior Environments
- Holds Broken Glass Together

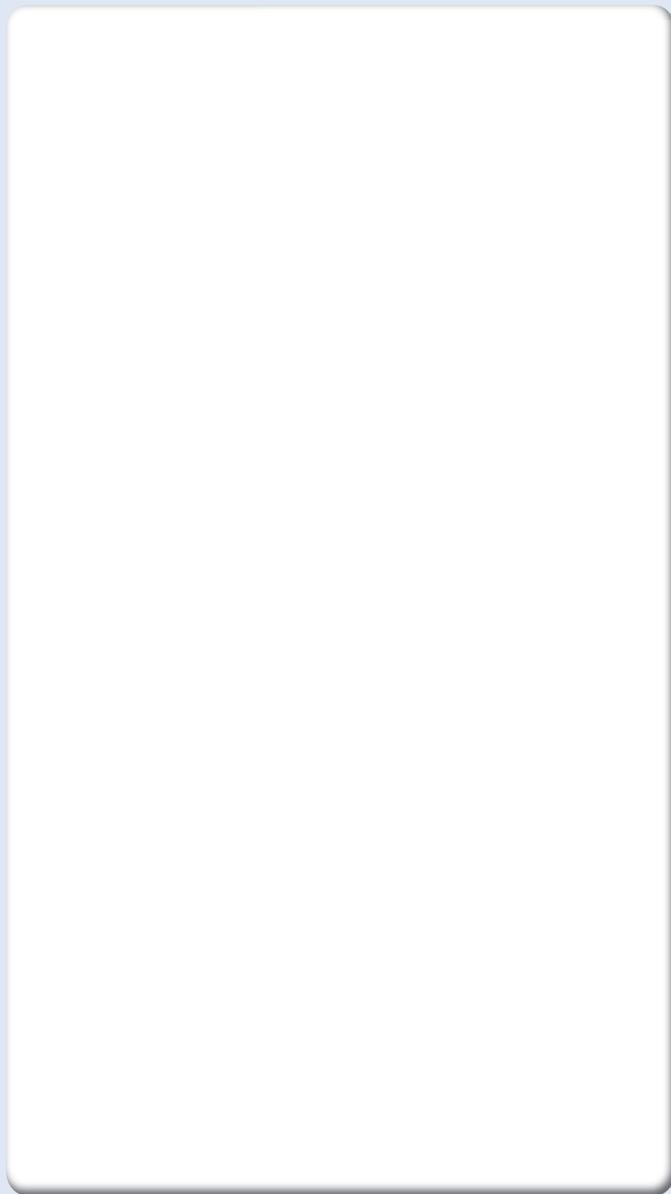
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## UV Gard 200

### Performance Measurements

#### Visible Light:

Transmitted.....	80%
Reflected Exterior.....	8%
Reflected Interior.....	8%
Glare Reduction.....	10%

#### Total Solar Energy:

Transmitted.....	74%
Reflected .....	8%
Absorbed.....	18%

Shading Coefficient.....	0.92
Solar Heat Gain Coefficient.....	0.80
U Factor.....	1.03
Ultraviolet Rejection .....	Exceeds 99%
Emissivity.....	0.87
Light to Solar Gain.....	1.00
Total Solar Energy Rejection.....	20%
Infrared Rejection*.....	26%
Infrared Energy Rejection .....	20%

\* Near IR range (780-2500nm)  
Performance measurement definitions can be found at [www.madico.com](http://www.madico.com)

Read in accordance with National Fenestration Rating Council (NFRC) standards on 6mm clear glass.



#### Specification Use Statement

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# Blister Free 200

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Product Guide

# Blister Free 200

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# Blister Free 200

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## Increase Solar Performance of Plastic Glazing

Blister Free 200 was designed specifically for uncoated polycarbonate (Lexan®) and acrylic (Plexiglass®) surfaces. Polymeric substrates such as these absorb moisture on high humidity days and exude that moisture vapor on low humidity days, leading to the blistering of standard film products. Madico's Blister Free 200 offers a proprietary adhesive that is not affected by the absorption and release of this moisture.

When used as a base layer under traditional solar control films, Blister Free 200 allows you to achieve the benefits of solar control films on plastic surfaces.

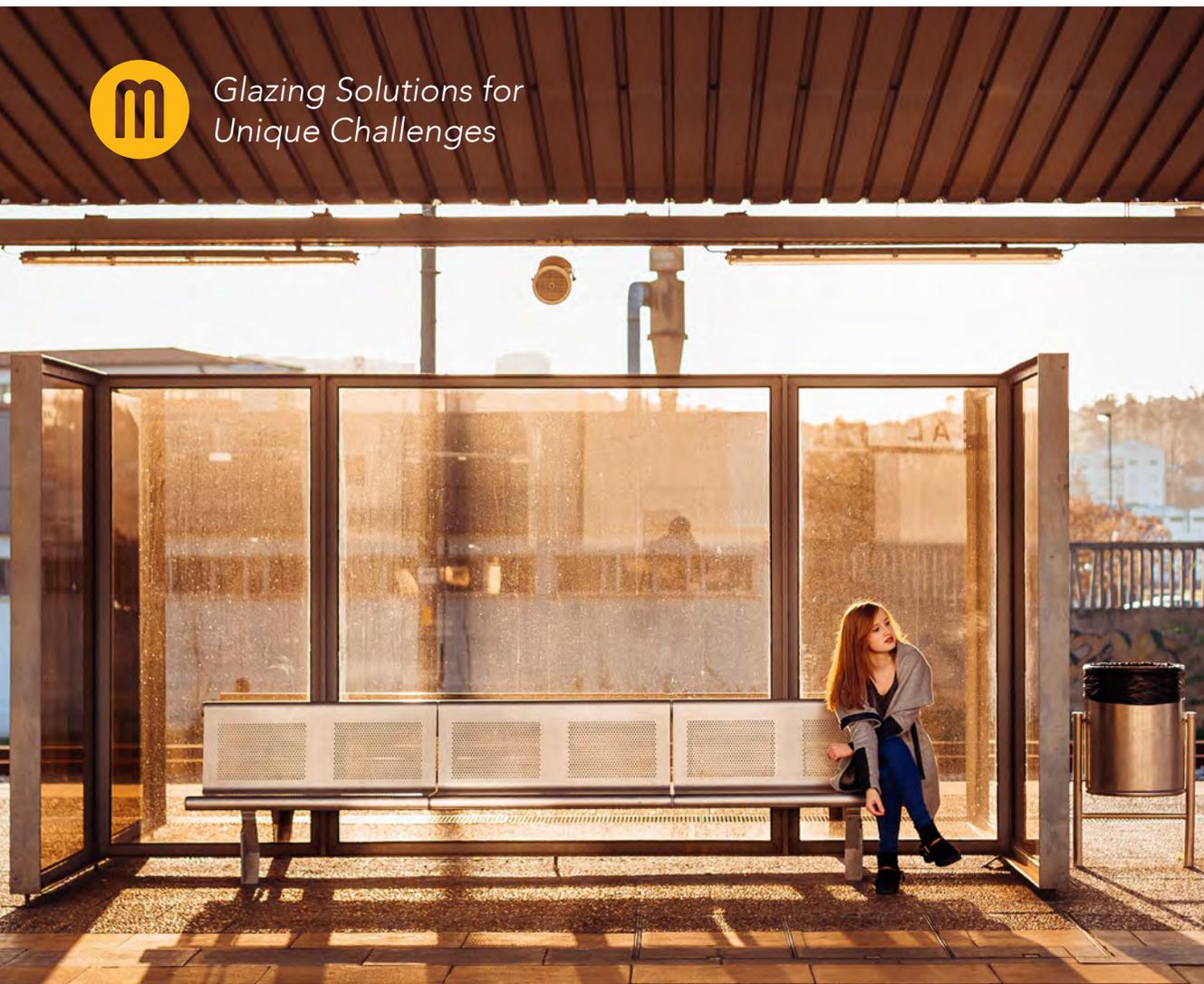


### Blister Free 200 Benefits:

- Designed for uncoated plastic surfaces
- Optically clear and distortion free
- Allows installation of solar control or decorative films
- Increases glazing safety

### Common Applications:

- Skylights
- Transit system shelters
- Sunroom panels
- Interior partitions
- Schools
- Hospitals and treatment facilities



Glazing Solutions for  
Unique Challenges



### Manufactured by Madico

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# Blister Free

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## Blister Free 200

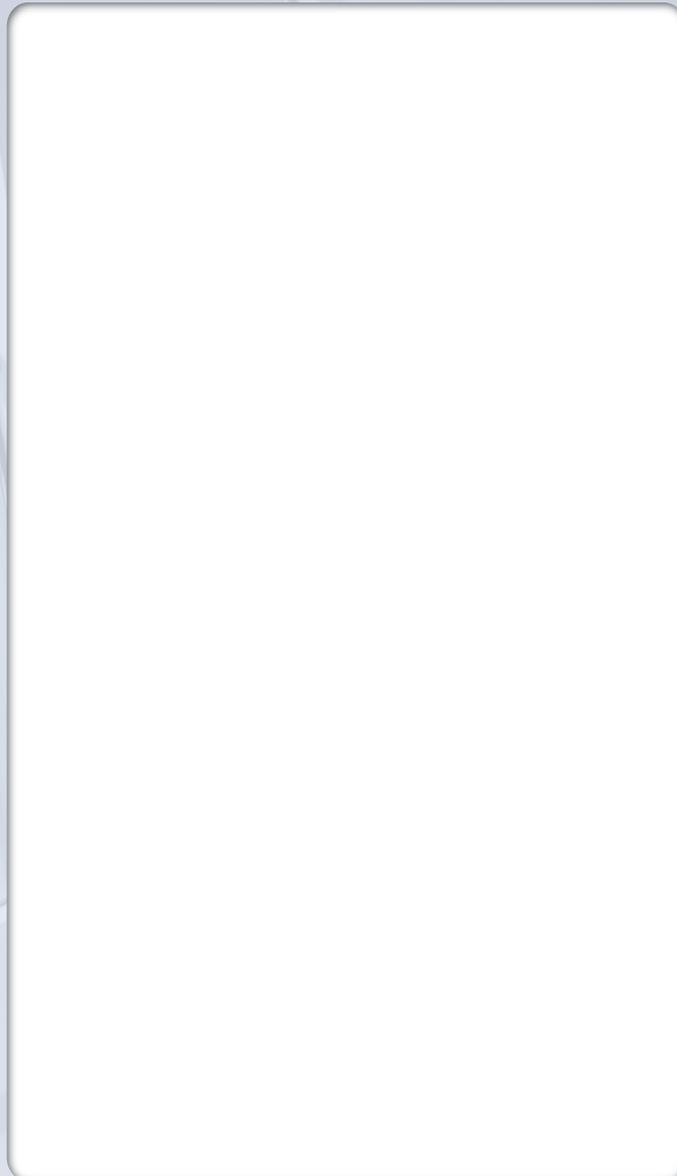
Blister Free 200 film is specifically designed for use on uncoated polycarbonate and uncoated acrylic surfaces. It is commonly used as a base film under solar control and decorative films to increase performance of windows, partitions and skylights.

### Product Benefits

- Safe for Uncoated Polycarbonate and Acrylic Surfaces
- Optically Clear
- Base Layer for Solar Control Films
- Rejects 50% of UV Rays

### Why Madico?

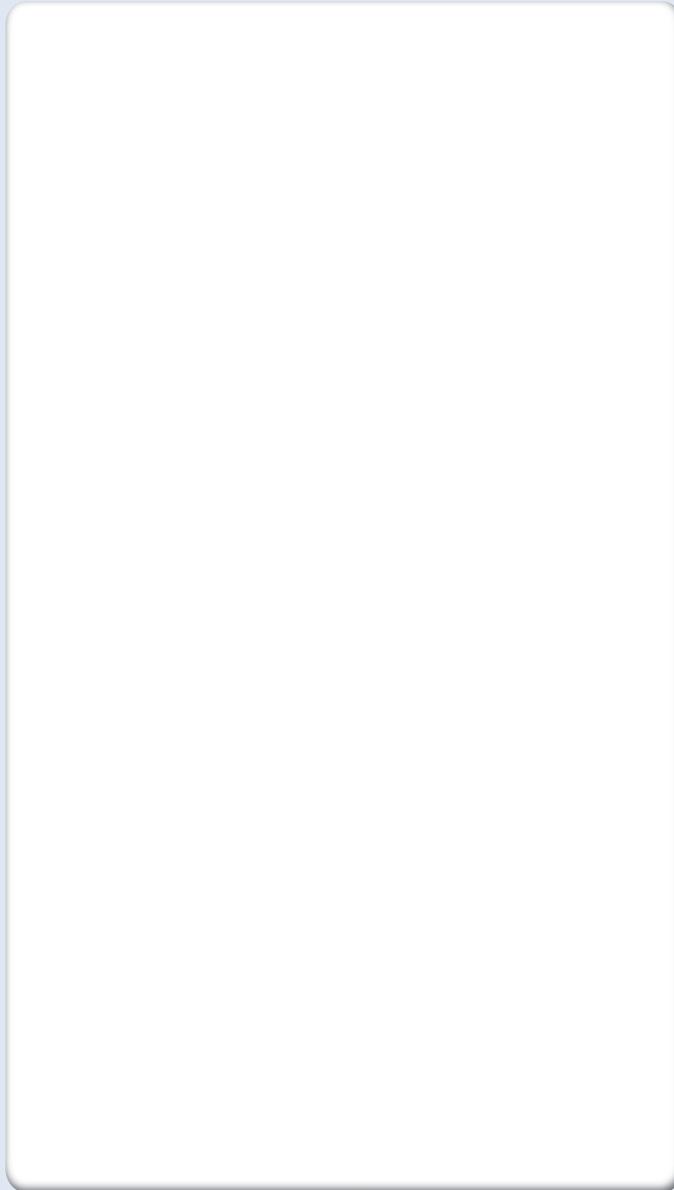
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## Blister Free 200

### Performance Measurements

#### Visible Light:

Transmitted.....	89%
Reflected Exterior.....	8%
Reflected Interior.....	8%
Glare Reduction.....	0%

#### Total Solar Energy:

Transmitted.....	80%
Reflected .....	8%
Absorbed.....	12%

Shading Coefficient.....	0.96
Solar Heat Gain Coefficient.....	0.84
U Factor.....	1.03
Ultraviolet Rejection .....	39%
Emissivity.....	0.86
Light to Solar Gain.....	1.06
Total Solar Energy Rejection.....	16%
Infrared Rejection*.....	26%
Infrared Energy Rejection .....	20%

\* Near IR range (780-2500nm)

Performance measurement definitions can be found at [www.madico.com](http://www.madico.com)

Read in accordance with National Fenestration Rating Council (NFRC) standards on 6mm clear glass.

*\*Please refer to the Madico Blister Free Technical Guide for information concerning product installation and dry time.*



#### Specification Use Statement

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# Amber81

BY MADICO

# Amber81

BY MADICO

Product Guide



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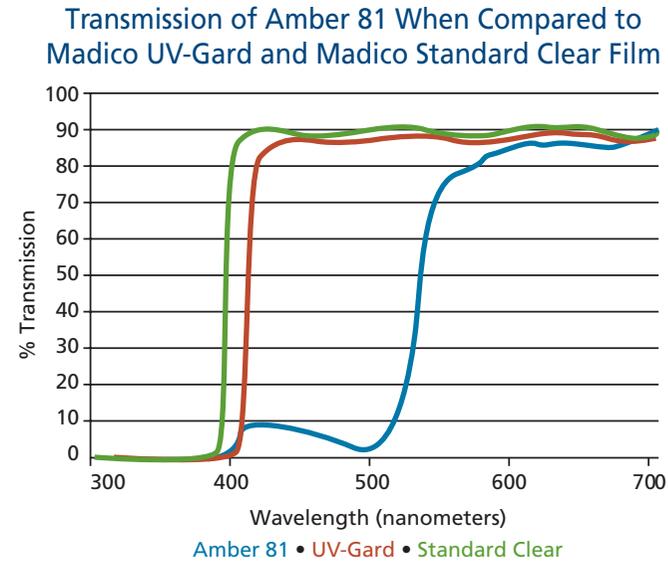
## Achieve Outstanding UV Blocking with Amber 81

Amber 81 is a special purpose film designed for use in environments that require the blocking of ultraviolet light into the low visible light region. It is commonly used in the medical field, technology-based clean rooms, and for UV curing processes. Amber 81 also can be helpful to patients with XLP (X-Linked Protoporphyrin) and EPP (Erythropoietic Protoporphyrin).\*

Ultraviolet light starts to transition to visible light around 380nm and a well-designed clear or lightly tinted window film will block more than 99% of UV energy up until 380nm. However, there are medical and clean room applications that require additional blocking from 380nm to 500nm, where UV and visible light are both present. Amber 81 provides excellent blocking throughout the 400nm range, with transmission below 10% all the way up to and past 500nm. Where this type of blocking is required, the film is applied to all sources of light such as windows, fluorescent lighting and other artificial sources of light within the environment. Since Amber 81 is filtering visible light below 500nm, only amber visible light is transmitted.

*\*Before using any product to address health issues, a medical professional should be contacted to ensure that the product will in fact block the UV radiation necessary.*

The graph below shows the transmission of Madico's Amber 81, UV Gard, and a standard clear film through the UV and visible light regions.



### Amber 81 Benefits:

- Rejects more than 99% of UV rays up to 380nm
- Significantly reduces UV and visible light between 380nm and 500nm
- Increased protection for UV-sensitive areas, materials, and people\*
- Can be installed on light fixtures
- Blocks stray light past 500nm
- Preserves sensitive and valuable materials

### Common Applications:

- Operating rooms
- Research labs
- Clean room manufacturing
- Pharmaceutical packaging
- Food processing plants
- UV curing environments



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# Amber81

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## Amber 81

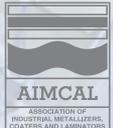
Amber 81 is a spectrally selective film designed to block UV light into the low visible light range up to around 500nm. Amber 81 can be used in environments such as clean rooms, hospital operating rooms, or any facility that requires extreme UV light blockage.

### Product Benefits

- Significantly Reduces UV and Visible Light Between 380nm and 500nm
- Preserves Sensitive Materials
- Holds Broken Glass Together
- Rejects more than 99% of UV Rays up to 380nm

### Why Madico?

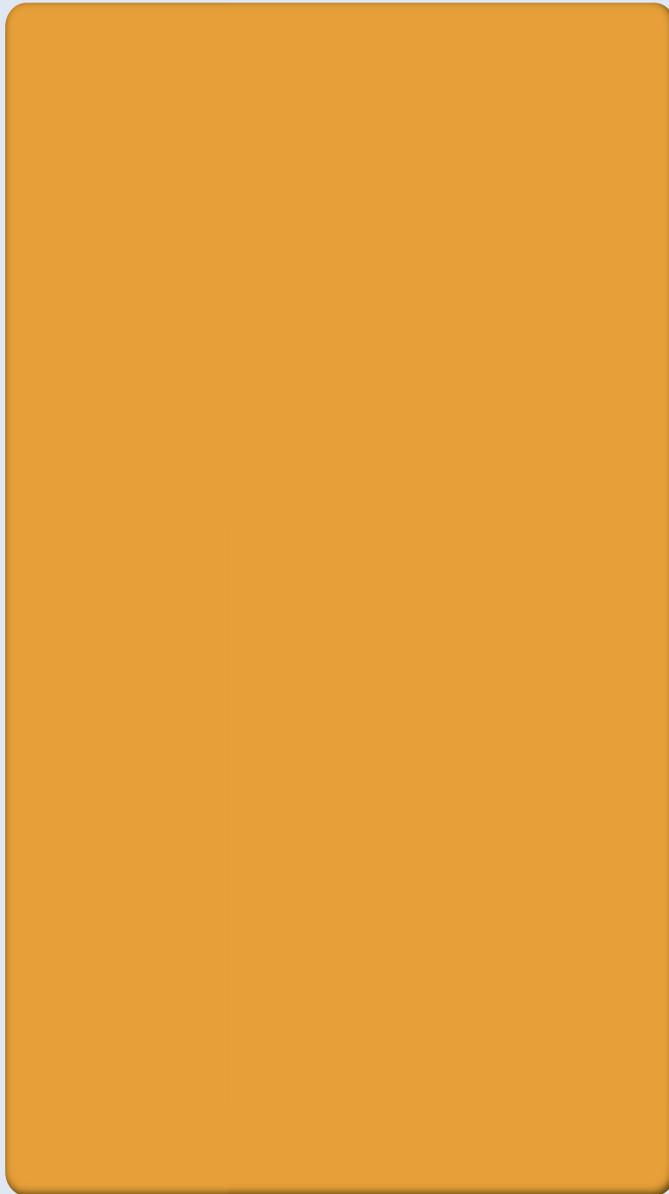
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## Amber 81

### Performance Measurements

#### Visible Light:

Transmitted.....	56%
Reflected Exterior.....	7%
Reflected Interior.....	7%
Glare Reduction.....	38%

#### Total Solar Energy:

Transmitted.....	63%
Reflected .....	7%
Absorbed.....	30%

Shading Coefficient.....	0.83
Solar Heat Gain Coefficient.....	0.72
U Factor.....	1.03
Ultraviolet Rejection .....	exceeds 99%
Emissivity.....	0.87
Light to Solar Gain.....	0.77
Total Solar Energy Rejection.....	28%
Infrared Rejection*.....	25%
Infrared Energy Rejection .....	20%

\* Near IR range (780-2500nm)

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## PROJECT SUMMARY

Installer  
ARC Window Films

Type of Film  
Amber 81

Installation Date  
March, 2014

Windows Covered  
21 windows



## THE CHALLENGE

A school in Scotland was searching for a way to meet the outdoor needs of a student who suffered from EPP, a rare photosensitivity condition affecting one in 300,000 people. Individuals with EPP must avoid all forms of strong light including sunlight and even operating room lights.

In conjunction with the local government, the school erected a special outdoor shelter to allow the student to study and play outside without suffering any ill effects. The shelter featured a covered roof and large windows on all sides. The windows were added to preserve the outdoor views for the student.

Understanding that the untreated windows offered little to no protection against the sun's harmful rays, the school began to research solutions to increase the protection on the glazing. It is essential for those with EPP to avoid sunlight in the form of both ultraviolet and visible light. Therefore, standard UV blocking window films would offer little to no protection to the student.

## THE SOLUTION

The school contacted ARC Window Films in search of a film that could provide the results they required. Neil Brabbs of ARC Window Films suggested a film from Madico, Amber 81.

Brabbs explained, "Sensitivity with EPP continues well above 400nm, so standard UV window films do not offer adequate protection. Amber 81 offers protection up to 550nm, filtering out the dangerous wavelengths, yet still letting a safe range of visible light pass through. The unique, amber color of the film is what gives it this extra blocking capability."

## THE RESULTS

All of the students at the school, not just the one with EPP, enjoy using the shelter for outdoor activities and lessons while being protected from the sun's harmful rays. The school administration is also proud to have discovered a way to include all students during time spent outdoors.

Another common application for Amber 81 film is in medical operating rooms. The same powerful rays that are present in sunlight can also be found in the strong lights of operating rooms. Healthcare professionals can apply Amber 81 film directly over their lights to prevent harm to patients with photosensitivity disorders.

# printables BY MADICO



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## Product Guide



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## Create Endless Possibilities With Printable Film

Create beautiful, full color photo murals and patterns on any glass surface, adding color and excitement to otherwise plain interiors. Visually soften an entryway, dress up a retail window display, add privacy to office work spaces and more. Printable film goes a step beyond pre-printed decorative films because you are not limited by what is available; you are only limited by your imagination.

Printable film from Madico is optically clear and offers a scratch-resistant coating for use in high traffic areas. Printable film works best with UV curable inks.



*Creative Solutions for  
Design Challenges*



### Benefits of Printable Films:

- Optically clear like glass
- UV ink compatible
- Print CMYK + white + gloss
- Scratch-resistant coating
- Graphics look the same on both sides of the film
- Available in 61" and 72" x 150' rolls for large applications
- 2 mil thickness for easy handling and installation

### Common Applications:

- Retail displays
- Restaurants
- Hotels
- Hospitals
- Reception areas
- Office buildings
- Libraries
- Storefront windows



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