



## The World's Most Trusted Windshield Protection Film

ClearPlex by Madico is the world's first and best-performing windshield protection film, offering best-in-class features and benefits that significantly enhance the safety, durability, and longevity of vehicle windshields.

ClearPlex provides optically clear, effective protection against everyday hazards, including rocks and other common road debris causing windshield damage and accidental breakage. ClearPlex windshield protection film ensures a safer driving experience, while maintaining the integrity of vehicle glass and preventing high repair costs associated with ADAS-equipped windshield replacement.

ClearPlex is a 4mil, PET-based film that maintains optical clarity longer than TPU films with a patented scratch-resistant coating that won't dull, peel, bubble, crack or yellow.

The perfect solution for dealers, installers, and consumers, ClearPlex offers superior protection, maintains the pristine condition of any vehicle, and is backed by a robust manufacturer's warranty, making it a valuable addition to any product lineup.

- Superior impact resistance
- Patented scratch-resistant coating
- Optically clear, invisible windshield protection
- Protects against harmful UV rays
- Maintains vehicle value
- Avoids expensive ADAS repair costs
- Robust manufacturer's warranty
- Perfect for all vehicles – luxury, classic, EVs, RVs, vehicles equipped with ADAS and commercial/fleet vehicles

# MADICO®

The Clear Choice for Windshield Protection

# ClearPlex Original and Contour Features and Benefits

## Superior Impact Resistance

- Absorbs the impact from everyday road debris, reducing the occurrence of rock chips, pitting and bulls' eyes, keeping the glass in pristine condition
- Keeps windshields intact during a potential break-in or accident, increasing protection to vehicle occupants and belongings

## Patented Scratch-Resistant Coating

- With 3 active utility patents, ClearPlex has industry-leading abrasion and stain resistance
- Longer lasting - ClearPlex stands up to everyday wear and abrasions, like windshield wipers significantly better than TPU films

## Optically Clear, Invisible Windshield Protection

- Seamlessly integrating with a car's windshield, ClearPlex has the best clarity on the market
- Rain and snow runs off easily, resulting in better visibility when using ClearPlex

## Protects Against Harmful UV Rays

- Protects interiors from fading
- Guards passengers against 99.9% of the sun's harmful UV rays

## Maintains Vehicle Value

- Safeguards original windshield, preserving OEM look and value
- Maintains structural integrity of OEM windshields

## Avoids Expensive ADAS Repair Costs

- Prevents expensive repair and recalibration costs associated with ADAS-equipped windshields
- Average replacement cost of a ADAS equipped windshield is \$1500\*
- Repair costs can be up to 3 times the cost of installing ClearPlex windshield protection film

## Robust Manufacturers Warranty

- Guaranteed not to peel, bubble, crack or yellow

- *Inventor and U.S. patent-holder of WPF*
- *Most trusted WPF worldwide*
- *Available in 36", 48", 60" and 72"*
- *Made in the USA*

 **ClearPlex®**  
Contour  
BY MADICO

- ClearPlex Contour saves 50-75% on install time
- Installs like window tint
- Maintains all ClearPlex best-in-class features and benefits

ClearPlex Contour is a 4-mil, PET-based windshield protection film (WPF) with quick shrink technology that is easier to install by all skill levels and reduces installation time up to 75%.

Engineered to maintain the best-in-class features of ClearPlex original, ClearPlex Contour now offers amazing dealer benefits without sacrificing any consumer benefits.



# ClearPlex Original and Contour Performance and Testing

## Superior Impact Resistance

3rd party testing data rates ClearPlex to protect against impacts from up to a 1.5oz projectile traveling 122 mph.

Tensile Strength <b>32,000 PSI average, MD/TD*</b> Test Method: ASTM D-882	Peel Strength <b>3.5–4.5 Pounds Per Inch</b> Test Method: ASTM D-3330
Film Thickness <b>4 mil</b>	Break Strength <b>100 Pounds Per Inch (Width)</b> Test Method: ASTM D-882

## Patented Scratch-Resistant Coating

Industry-leading abrasion and stain resistance that outperforms the competition. Built to withstand abrasion and wear from wipers and regular maintenance.

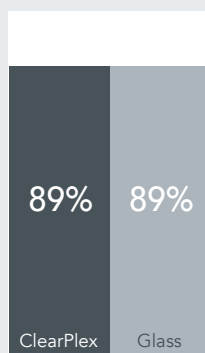
Abrasion Resistance  
**< 1.5% Delta Haze**  
Test Method: ASTM D-1044

Taber Abrasion Comparison ClearPlex vs. Competitors	
Film Tested	Delta Haze
<b>ClearPlex</b>	<b>0.96</b>
Comp. TPU WPF	2.43
Comp. PET WPF #1	2.67
Comp. PET WPF #2	2.77

## Optically Clear

Closest product on market to glass, meets US DOT standard for windshield optics, ensuring visual clarity.

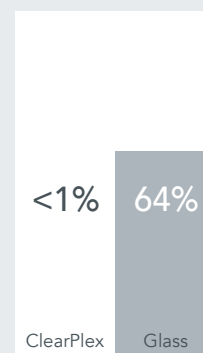
Transmitted Visible Light



## Ultraviolet Protection

>99% UV rejection reduces UV damage to vehicle interiors and occupants.

Transmitted Ultraviolet Light



	Performance Measurements	ClearPlex Original	ClearPlex Contour
Visible Light	Transmitted	89%	88%
	Reflected Exterior	10%	9%
	Reflected Interior	9%	9%
Total Solar Energy	Transmitted	81%	76%
	Reflected	9%	8%
	Absorbed	10%	16%
Other Properties	Shading Coefficient	.97	.93
	Solar Heat Gain Coefficient	.84	.81
	Ultraviolet Rejection	exceeds 99%	exceeds 99%
	Infrared Rejection*	23%	29%
	Infrared Energy Rejection	18%	22%
	Total Solar Energy Rejection	16%	19%

Physical Properties	ClearPlex Original	ClearPlex Contour
Film Thickness	0.0045"	
Structural Component	0.004"	
Base Film Type	Polyester	
Adhesive Type	Acrylic Pressure Sensitive	
Tensile Strength	32,000 PSI Avg. MD/TD <sup>o</sup>	
Break Strength	100 Pounds Per Inch (width)	
Peel Strength	3.5 to 4.5 Pounds Per Inch	
Abrasion Resistance	< 1.5% Delta Haze	

<sup>o</sup> Machine/Transverse Direction

\* Average replacement cost of an ADAS equipped windshield according to a 2018 study by AAA (American Automobile Association) and does not include related body work or recalibration of ADAS systems.

Test data available upon request.

Solar performance measurements are read in accordance with National Fenestration Rating Council (NFRC) standards on 6mm clear glass (exterior application).



## For Luxury, Classic, EV and RV

Reduce the high cost of windshield replacement that can easily extend beyond \$10,000.

## For All New Cars

With now mandatory ADAS (automatic emergency braking, adaptive cruise control, others) for all vehicles, windshield replacement on everyday vehicles can quickly surpass \$1,500.\*

## For Commercial Fleets

Protects against windshield damage, the leading cause of fleet downtime. Keeps revenue generating vehicles on the road and lowers operational costs.

*ClearPlex is certified for interior and exterior surfaces to European rail coach standard EN 45545.*

## FAQs

### Who Should Use ClearPlex?

ClearPlex is ideal for luxury and classic vehicles and for all vehicles equipped with ADAS (Advanced Driver Assistance Systems) windshield technology. These vehicles have windshields that carry high replacement costs. The average replacement cost of an ADAS equipped windshield is \$1500.\* ClearPlex can be installed at a fraction of the cost of a windshield replacement. ClearPlex film is also perfect for fleet vehicles such as buses, delivery trucks/vans, and rental cars. ClearPlex reduces downtime and helps keep revenue-generating vehicles on the road. ClearPlex is also an excellent product for recreational and off-road vehicles as well as for deterring smash-and-grab thefts.

### How Does ClearPlex Windshield Film And Installation Compare To Automotive Window Film?

ClearPlex film and automotive window film are both polyester-based films which require heat molding to be properly installed. Due to the thickness of ClearPlex, installation takes a little longer and requires more heat to properly mold the film to the windshield.

*ClearPlex Contour installs 1:1 when compared to auto windshield tint. A competent auto window tinter can expect to take the same amount of time installing ClearPlex Contour as installing window tint.*

### Will ClearPlex Impair The Driver's Vision?

No, when installed properly, ClearPlex is optically clear and will not impair or affect the driver's vision and their ability to safely operate the vehicle.

### Will ClearPlex Remain Adhered To The Windshield?

ClearPlex is strong enough to withstand speeds reached by professional racing vehicles.

\*Average replacement cost of an ADAS equipped windshield according to a 2018 study by AAA (American Automobile Association) and does not include related body work or recalibration of ADAS systems.

### What's The Best Way To Maintain ClearPlex Film?

Installers should reference the "ClearPlex Aftercare Hangtag" for full maintenance/aftercare instructions. When washing the windshield, the preferred method is either hand washing or use of a touchless car wash. Avoid use of a high-pressure sprayer directly on the surface of the film and do not use abrasive or caustic/solvent-based cleaning/maintenance agents. Madico's Endurance Car Care product line is the only purpose-built car care line for use with ClearPlex. Contact your local Madico dealer or rep to confirm if your cleaning/maintenance products are compatible with ClearPlex. Use of windshield wipers is okay but avoid using when dry and/or dirty. Use of an automotive protective wax such as Turtle Wax, RejeX or Meguiar's Wax and/or application of Endurance by Madico TruCeramic is an essential part of the ClearPlex maintenance program. When used as directed, wax/TruCeramic coating will maintain the scratch resistance and water repellency of the ClearPlex film. Wax/TruCeramic Coating also seals the ClearPlex film against bird droppings, bugs, oil, tar, grease, dirt and grime. If applying wax, the installer should apply an initial amount of the wax at the time the film is installed on the windshield. The vehicle owner should continue to apply wax to the windshield every month during the life of the ClearPlex film.

### Is ClearPlex Permanent?

ClearPlex uses a unique adhesive that keeps the film adhered tightly to the windshield but is not permanent. The longevity of ClearPlex on a specific vehicle is directly related to the following factors: 1) UV exposure; 2) Usage Rate (e.g. Miles/KM driven per year); 3) Conditions the vehicle operates in; 4) Adherence to proper care instructions; 5) End user's tolerance threshold for wear-and-tear.

### How Is ClearPlex Removed Or Replaced?

The film can be removed by using a hard plastic or stainless-steel object (i.e. edge of a plastic credit card or stainless-steel blade) by simply lifting the film on one edge and then pulling, using slow and consistent pressure. Any adhesive remaining on the windshield can be removed with a plastic or stainless-steel scraped and/or non-caustic cleaner designed to remove adhesive. New ClearPlex film can then be installed on the clean windshield.



Contact us to learn how ClearPlex windshield protection film can be a profitable addition to your line of products.

Ask us about our total vehicle protection solutions - ClearPlex windshield protection film, Protekt® paint protection and our wide array of window film product options.