

ClearPlex - The Fleet Windshield Protection Solution



- Delivery fleets - (first and last mile delivery) EV and ICE
- Mining equipment
- Heavy equipment
- Emergency response
- Public transit (bus, train, airport shuttle)

FAQs

What is ClearPlex Windshield Protection Film?

ClearPlex is an exterior-applied, optically-clear, windshield protection film designed to provide a physical barrier between the windshield and road debris with the purpose of reducing windshield damage and replacement rates among fleet vehicles.

Why Fleet Managers Should Use ClearPlex?

ClearPlex is ideal for all fleets especially those operating vehicles with ADAS equipped windshields. These windshields carry high replacements costs that often exceed \$1,500-\$2,000*.

Will ClearPlex Impair The Driver's Vision?

ClearPlex offers unmatched optical clarity and does not impair the driver's ability to safely operate their vehicle. Additionally, ClearPlex is the only WPF to have received certification by the Utah and Arizona state DOT confirming that it meets the U.S. federal guidelines for VLT of a windshield.

Is ClearPlex Permanent?

ClearPlex is intended to be removed and replaced after its serviceable lifespan. ClearPlex utilizes a proprietary adhesive that keeps the film adhered to the windshield while allowing it to be removed and replaced easily.

Are They Any Fleet-Specific Benefits?

- Convenient installation on your schedule and at your location
- Improved forecasting for maintenance costs and upkeep
- Eco friendly - ClearPlex will reduce the number of unnecessary windshield replacements and lower your organization's GHG (greenhouse gas) emissions related to non-recyclable auto glass.

Where Is ClearPlex Manufactured?

ClearPlex is manufactured in the USA at Madico's 250,000ft², ISO certified manufacturing plant in Florida. Madico is a world leader in optical-grade protective films.

What Is The Best Way To Install ClearPlex On A Fleet?

For ease-of-installation and efficiency, it is recommended to install ClearPlex as a pre-cut and pre-formed kit. Madico offers ClearPlex ReadyFit Kits. ReadyFit Kits can be installed 3-4x faster than a traditional bulk installation providing better scalability and reliability. Ask your Madico rep how to source ReadyFit kits for your specific fleet.

What benefit Can ClearPlex Provide a Fleet With Windshield Replacement Insurance?

Windshield replacement insurance only covers the costs for repairing and/or replacing a damaged windshield. It does not cover any other costs a fleet will experience like lost revenue due to downtime. ClearPlex still provides excellent value and benefits for fleets that carry windshield insurance.

Tell Me More About Madico's ClearPlex White-Glove, Full Service Fleet Installation Program.

For larger fleets, we offer a full-service ClearPlex installation program. We are your single point-of-contact which eliminates the administrative hassles of having multiple vendor contractors providing the same service. Madico will implement and manage the entire installation program according to your schedule and at your location. We will leverage our nationwide network of Madico installation professionals to provide comprehensive coverage while also guaranteeing the quality of all installations. As the manufacturer, we will deliver a product that is unmatched in quality, reliability, scalability and cost.

What Sets ClearPlex Apart?

- ClearPlex is THE original, 3x-patented windshield protection film
- ClearPlex is available in larger widths - 60" & 72" - to offer full protection to larger fleet vehicle windshields
- In-house R&D ensuring constant product testing, improvement and innovation



Contact us to learn how ClearPlex windshield protection film can protect all of your fleet vehicles, saving you money and downtime.

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



FLEET SOLUTIONS

Exterior-Applied, Windshield Protection Film

Protect Your Fleet with ClearPlex Windshield Protection Film

Windshield damage is one of the leading causes of unexpected fleet vehicle downtime and maintenance costs.

ClearPlex is a transparent protective film that is installed on the exterior of your fleet vehicle's windshield and acts as a physical barrier to protect the windshield against typical road hazards that cause windshield damage.

ClearPlex significantly reduces windshield damage and offers a proactive solution to mitigate rising windshield repair and replacement costs.

Save time and money by avoiding costly repairs and replacements, preventing unexpected operational delays, and eliminating third-party rental fees associated with windshield incidents.

- Superior Impact Resistance
- Decreases Vehicle Downtime and Associated Costs
- Control Windshield Maintenance on Your Schedule
- Compatible with NHTSA Mandated ADAS Systems*
- Patented Scratch-Resistant Coating
- Optically Clear Windshield Protection
- Robust Manufacturers Warranty
- Suitable for All Fleet Vehicles – delivery, mining, heavy equipment, emergency response, and public transportation

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

MADICO®

The Clear Choice for Windshield Protection

ClearPlex Features and Benefits

Superior Impact Resistance

- Significantly reduces windshield damage rate
- Absorbs the impact from everyday road debris, reducing the occurrence of rock chips, pitting and bulls' eyes, keeping the glass in pristine condition

Decreases Vehicle Downtime and Associated Costs

- ClearPlex costs on average 1/3 less than an ADAS windshield replacement
- Avoid added operational costs associated with vehicle downtime

Control Windshield Maintenance on Your Schedule

- Removes the unpredictability of windshield damage and maintenance
- Allows you to integrate windshield care into your regular preventive maintenance schedule

Compatible With NHTSA Mandated ADAS Systems

- ClearPlex offers unmatched optical clarity making it compatible with all ADAS equipped windshields
- Prevents expensive repair and recalibration costs associated with ADAS equipped windshields

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 Windshield Protection

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

Robust Manufacturers Warranty

- Guaranteed not to peel, bubble, crack or yellow

* ClearPlex by Madico defers to the official OEM guidance on proper care and condition of ADAS sensors.

ClearPlex Case Studies

Customer: CONFIDENTIAL

- Vehicle Type:** 1st & Last Mile Delivery Vehicles (ICE & EV types)
- Year Started:** 2022
- Locations:** West Canada and SW US
- Total Windshields Protected:** 1,200
- Glass Cost per Windshield:** \$3,500 (USD)
- ClearPlex Cost per Windshield:** \$400.00

"After we started using ClearPlex, we reduced our windshield replacement costs by 75%"

Results:

	Pre Pilot	Post Pilot (Feb 2025)	Variance	
Miles Driven per Replacement	22,000	56,000	155%	Improvement
Replacements per Year	194	76	118	Windshields Saved
Cost per Windshield	\$3,500.00	\$3,500.00		
Total costs of windshields	\$679,000.00	\$266,000.00		
Cost of each rental vehicle	\$3,000.00	\$3,000.00		
Total costs of rental vehicles	\$582,000.00	\$228,000.00		
Total Costs	\$1,261,000.00	\$494,000.00	\$767,000.00	Total savings

Customer: Melbourne Metro Train Authority

- Vehicle Type:** City Train System
- Year Started:** 2010 (through 2025)
- Location:** Australia
- Trains Protected per Year:** 1,000+
- Glass Cost per Windshield:** \$3,500 (AUS)
- ClearPlex Cost per Windshield:** \$400.00

Results:

- Windshield lifespan doubled
- Total Saved per Year: \$1,500,000* (AUS)
- Total Saved thru 2024: \$18,000,000+ (AUS)

Customer: VOLÁNBUSZ (Nortek)

- Vehicle Type:** City & Country Bus System
- Year Started:** 2014
- Location:** Hungary
- Buses Protected per Year:** 450
- Glass Cost per Windshield:** €700 (EUR)
- ClearPlex Cost per Windshield:** \$400.00

Results:

- Windshield lifespan doubled
- Total Saved per Year: €315,000 (EUR)
- Total Saved Through 2024: €3,150,000 (EUR)

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

Patented Scratch-Resistant Coating

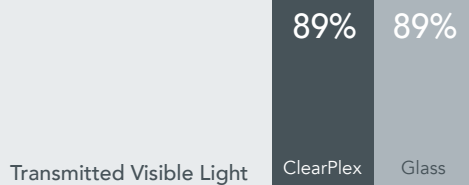
Industry-leading abrasion and stain resistance that outperforms the competition. Built to withstand abrasion and wear from wipers and regular maintenance.

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

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

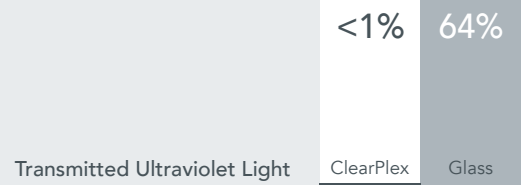
Optically Clear

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



Ultraviolet Protection

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



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

Physical Properties	ClearPlex
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 ^o
Break Strength	100 Pounds Per Inch (width)
Peel Strength	3.5 to 4.5 Pounds Per Inch
Abrasion Resistance	< 1.5% Delta Haze

^oMachine/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).