



IR Blocking

Nano-Ceramic

The Clear Choice for Windshield Protection

- Protects glass from everyday road debris
- Proprietary, scratch-resistant coating
- **Nano-ceramic properties block infrared energy**
- Warrantied not to peel, bubble, crack, or yellow
- Protects against accidental breakage and smash-and-grab
- Maintains structural integrity of OEM windshields
- Optically clear, invisible windshield protection
- Faster runoff of rain and snow
- Protects interiors from fading
- Helps maintain vehicle value
- Ideal for maintaining fleet vehicles and reducing down-time
- **Essential for ALL vehicles with ADAS technology**

ClearPlex windshield protection film is now available with **IR-blocking technology** to protect drivers from unwanted infrared energy which can help keep vehicle interiors cooler. ClearPlex films also block 99% of UV.

Cracks and chips in windshields can be hazardous and expensive to repair. With ClearPlex Nano-Ceramic by Madico you can provide your customers the world's most respected, optically-clear protection for vehicle windshields. This patented product absorbs the impact of typical road hazards, significantly reducing the occurrence of rock chips, pitting, and bull's-eyes; leaving the glass in pristine condition.

Avoid Expensive ADAS Repair Costs

More vehicles are equipped with ADAS technology and ClearPlex can prevent expensive repair costs which can include recalibration of these systems in addition to replacing the glass. The average replacement cost of a ADAS equipped windshield is \$1500.*

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



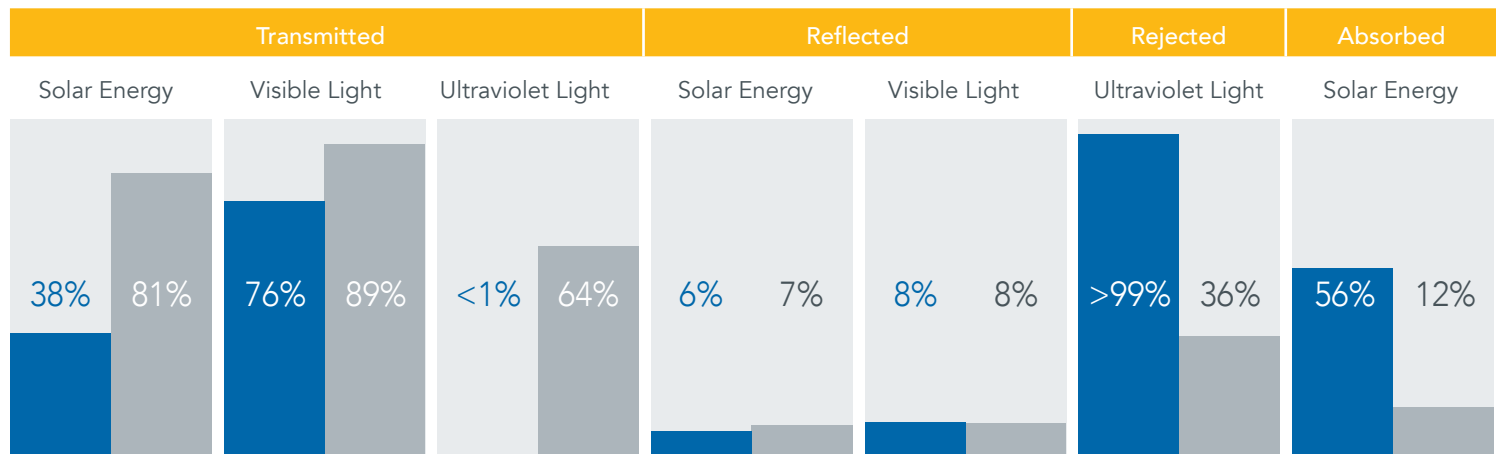
Contact us to learn how ClearPlex windshield protection film can be a profitable addition to your line of products.

ClearPlex Nano-Ceramic Performance and Testing

ClearPlex Film

Versus

Glass Alone



Read in accordance with National Fenestration Rating Council (NFRC) standards and calculated on single pane 6mm (1/4") clear glass. *IR Rejection is tested in the IR range of 780 to 2500 nanometers. Reported values are typical properties and should not be used as a specification. Since only the user is aware of the specific conditions in which the product is to be used, it is the user's responsibility to determine whether the product is suitable for that intended use. If the specific conditions of use are critically dependent on any of the properties of the product, or if you need further information, contact Madico, Inc. or your local Madico film dealer.

Tensile Strength

**32,000 PSI average,
Machine/Transverse Direction**
Test Method: ASTM D-882

Break Strength

100 PSI
Test Method: ASTM D-882

Peel Strength

3.5–4.5 PSI
Test Method: ASTM D-3330

Abrasion Resistance

0.3-0.5% Delta Haze
Test Method: ASTM D-1044

Infrared Surface Blockers

IR Rejection 89%, IRRER 61%

Adhesive Type

Acrylic Pressure Sensitive

Base Film Type

Polyester

Film Thickness

4 mil

Pencil Hardness (SR topcoat)

7H

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

Who should use ClearPlex Nano-Ceramic?

ClearPlex Nano-Ceramic 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 can carry high replacement costs. The average replacement cost of a ADAS equipped windshield is \$1500.* ClearPlex film is also perfect for fleet vehicles such as buses, delivery trucks/vans, and rental cars because ClearPlex helps keep these revenue generating vehicles on the road. ClearPlex is also an excellent product for recreational and off-road vehicles as well as for anyone interested in deterring smash-and-grab thefts.

How does ClearPlex NC 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.

Will ClearPlex NC impair the driver's vision?

No, Clearplex NC is optically clear and will not reduce visible light through the windshield. ClearPlex is warrantied not to peel, bubble, crack, or yellow.

Will ClearPlex NC remain adhered to the windshield?

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

What's the best way to maintain ClearPlex NC Film?

The use of an automotive protective wax such as Turtle Wax, NuFinish, RejeX or Meguiar's Wax is an essential part of the maintenance program for ClearPlex windshield protection film. The wax will maintain the scratch resistance and water repellency of the ClearPlex film when it is used as directed. The wax also seals the ClearPlex film against bird droppings, bugs, oil, tar, grease, dirt and grime. The installer will 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 NC 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) Mileage driven, 2) conditions the vehicle operates in, and 3) adherence to proper care instructions.

How is ClearPlex NC 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 non-caustic cleaner designed to remove adhesive. New ClearPlex film can then be installed on the clean windshield.

*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.