



WILL I LOSE THE WINDOW MANUFACTURERS EXISTING WARRANTY?

NO! Your existing window warranty is assumed in detail by the window film manufacturer warranty amendment. We are careful to make sure that you have this coverage when required. Our customers have always appreciated this because now your windows are covered by a much larger company than your window manufacturer!

DO 3M™ WINDOW FILMS CAUSE GLASS TO BREAK?

The application of 3M™ will increase the temperature of your sunlit glass which will increase the stress on the glass edges. The quality of those glass edges and several other factors (external shading, interior shading, glass history, type of film, size/shape of glass, indoor/outdoor temperature) all contribute to the potential risk of glass breakage.

3M's thirty (30) years of experience with applying 3M™ Window Films to different types of glass enables us to make proper film/glass recommendations and minimize the potential for glass breakage. In addition, we support these recommendations with our 60-month glass breakage warranty against thermal shock fracture. Should the glass break within 60-months of application, 3M; will replace the glass (maximum \$500.00 with a \$25.00 consumer deductible, or 5% of replacement cost, whichever is greater per claim), and the dealer will replace the film.

DO 3M™ WINDOW FILMS CAUSE SEAL FAILURE WHEN APPLIED TO INSULATED (DOUBLE-PANEL, THERMOPANE™) WINDOWS?

No, 3M™ Window Films do not cause seal failure. We've been applying 3M™ films to insulated windows for over 30 years with several millions of square feet of film applied to date.

When recommended films are applied to the inside pane of an insulated glass unit, there will be some absorption (except with clear safety films) of the sun's energy, which will increase the temperature of the glass pane. Some of this heat will transmit to the airspace, slightly raising the airspace temperature. However, even a 20 F degree increase (unusual for most films) will result in a less than 3% change in air pressure, whereas properly made units are designed and tested to withstand 22% changes in air pressure. Put into perspective, most manufacturers of insulating glass units design their products to withstand a pressure change of 3.30 psi, over six times the film's potential pressure increase.

Risk of seal failure is greatly determined by the quality of workmanship and the quality of the materials that go into building the insulated glass units. The best guard against seal failure is to purchase well-made units from reputable window manufacturers that have solid experience and histories with insulated units.

WILL WINDOW FILM DARKEN MY HOME?

NO! Residential films are specially made to control heat, fade and glare and add safety from broken glass without you even noticing a film has been installed. Window film comes in a wide variety of shades. We are careful to help you choose the proper film type for the particular need you have.

WILL IT PEEL OR BUBBLE?

NO! Our Window films are warranted never to bubble, crack, peel, de-laminate, fade or discolor for life! 3M is a leader in adhesive technology and has held the patent on this product since 1966. No other film type has this industry leading technology!



CAN WINDOW FILM IMPROVE MY LOW-E WINDOWS?

Yes! Window film will provide you with much higher levels of control from heat, fade and glare.

Low-E means 'low emmissivity' that translates into the coating that is on the Low-E glass. The coating helps prevent heat to be absorbed into the glass and re-radiate to the other side. While this is great for helping keep heat in your home in the winter, it does not give you all of the protection you need from the higher levels of heat in summer.

HOW DO WINDOW FILMS WORK?

3M Sun Control Films are designed to reduce the amount of solar heat transmission through window glass by increasing the solar reflection (not necessarily visible reflection) and solar absorption of the glass.

Typical colored or dyed films work primarily through increased absorption. The color absorbs the solar energy at the glass, thus reducing the direct transmission into the room. These films only offer marginal performance when compared to reflective films.

Reflective films are films that have been precision coated with metals. These metallic films are designed to increase the solar energy reflection of the glass and some of the absorption. Reflective films range from mild to excellent in solar heat rejection performance (heat gain reduction).

All 3M Sun Control Films are protected with our patented Abrasion Resistant coating for long term durability and maintained appearance.

WILL WINDOW FILM HELP KEEP HEAT IN DURING WINTER?

While window film can slightly increase the U value of your windows, All Season Films, or Low E films, work much in the same way as the sun control films except that they offer an increased performance against cold weather heat loss. The patented constructions of these films enable the metal coating to reflect more of the interior room heat back into the room where it is needed. This improves comfort by reducing potential draft feelings near the window, and may also save on fuel costs, especially in commercial buildings. The LE Films are protected with our abrasion resistant coating for long term durability and maintained appearance. These films are quite reflective and are usually only installed in very cold climates.

WHY DO COMMERCIAL CUSTOMERS HAVE WINDOW FILM APPLIED IN THEIR BUILDINGS?

- Improved Tenant Comfort
- Lower Heating and Cooling Operating Costs
- Lower Utility Demand Costs
- Utility Rebates
- Improved Aesthetics, Uniform Appearance
- Improved Safety and Security
- Extended A/C Equipment Life
- Valued Alternative to adding more A/C Equipment
- And more.

Most often, our commercial customers will purchase 3M Window Films for tenant comfort and justify the purchase by Energy Cost Savings.

WHAT IS THE TYPICAL ENERGY PAY BACK FOR WINDOW FILMS?

Simple pay backs will vary depending upon the amount of sunlit glass exposure, the type of film, the type of glass, cost of fuel, cost of application, and other variables. However, we have seen pay backs often range in the 2-5 year period, with some reported to be even less than 6 months.