



Up to  
**10**  
years limited  
warranty\*

### Safety & Anti-Vandalism

Installing LLumar window film can help to increase personal safety by the reduction of risk of injury from broken glass. Existing glazing can be upgraded to meet EN 12600 impact classifications, enabling the glazing to meet project requirements (for instance, offices, schools, day care centres, sports facilities, public buildings). LLumar safety films considerably increase the resistance of glass to breakage and vandalism (classified to EN 356), and helps to reduce hazard from explosion shock waves (classified to ISO 16933 and U.S. General Service Administration).

#### Your benefits can be:

- Increased glass durability.
- Helps to hold broken pieces of glass together - greater protection from break-ins.

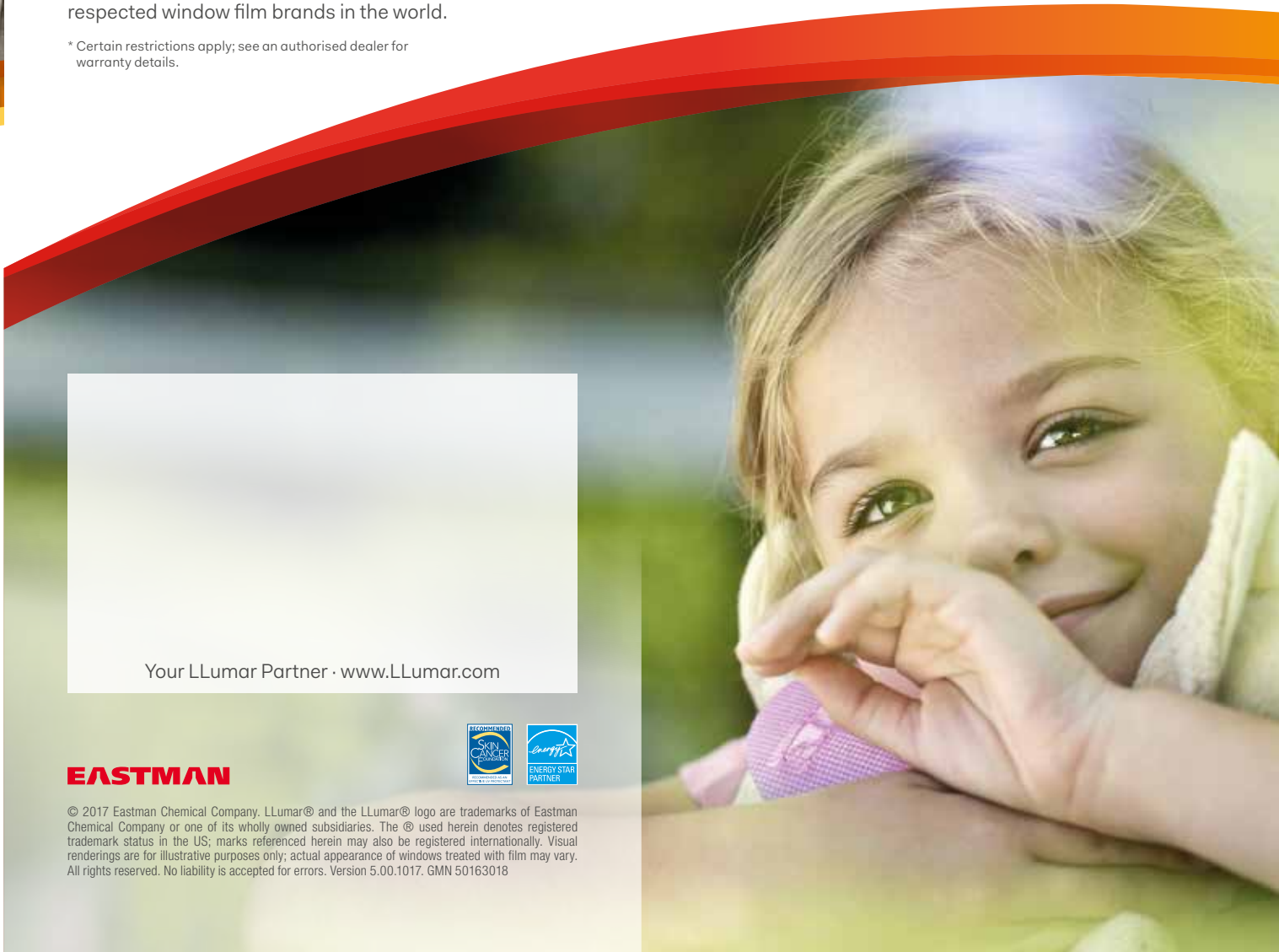
\*Certain restrictions apply; see an authorized dealer for warranty details, limitations and restrictions.

### Quality you can count on

Proudly made in the U.S.A. from globally sourced materials, the high performance LLumar® brand of window film can help protect and improve homes, businesses, and vehicles worldwide. Manufactured by an Eastman Chemical Company business, LLumar products are recognized for their outstanding appearance and durability. Professionally installed, LLumar window films are backed by a manufacturer's limited warranty.\* This, along with a reputation for quality and innovation, has made LLumar one of the best-selling and most-respected window film brands in the world.

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High Performance Window Film  
**Comfort without  
compromise**



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The sun is essential to life on earth – but too much sunlight is harmful. Unfiltered UV radiation can be destructive, and not only to human skin. With the addition of LLumar® sun protection films existing glass installations can achieve up to 80% rejection of summer heat gain\*.



Up to  
**80%**  
rejection of  
summer heat  
gain\*



## Solar Control

Even when equipped with state-of-the-art heat insulating and low e-glass, which lowers winter heating costs, buildings still are often overheated during the summer. LLumar films can help lower the amount of heat passing through almost any window.

### Your benefits can be:

- Improved occupant comfort resulting from lower room temperatures.
- Optimized working conditions.
- Reduced expenditure on energy to operate air conditioning systems.
- Increased occupant productivity with less fatigue.

## Energy Savings

LLumar solar control films can help to reduce excess heat in the summer, and LLumar low-emissivity films can also help to reduce heat loss in the winter.

### Your benefits can be:

- Heat insulation.
- Reduced heating and cooling costs.
- Environmental protection through reduced energy use.

## UV Protection

UV protection films help reduce the fading of furniture and helps delay the spoiling of consumable merchandise. Achieved by helping to block harmful UV rays from penetrating the glass and reducing excess heat. UV protection films are also used in museums to help protect works of art and other historical and cultural artefacts.

### Your benefits can be:

- Protection from UV rays.
- Fade protection\*\*.
- Skin protection.



## Glare Protection

Bright natural light can create difficult conditions due to glare and reflections on computer or TV screens.

### Your benefits can be:

- Glare reduction.
- Optimized working conditions.
- Helps to protect eyes.
- Increased productivity with less fatigue.

## Privacy Protection

Glass-enclosed spaces create an open atmosphere, but frequently also invite undesired attention from prying eyes. Decorative and mirror films help minimise this effect and help to protect your privacy. One-way mirror films (in which people can see out, but not under special lighting conditions) are also available.

### Your benefits can be:

- Partial or full privacy protection.
- Some films help maintain privacy while still enabling a clear view of the outside.

## Decorative & Design

Living and office spaces can be designed to individual specifications, and glass walls can be equipped with the desired decorative effects such as etched glass. For these applications, LLumar offers transparent, tinted, fully coloured and patterned films.

### Your benefits can be:

- Matte or etched glass looks.
- Consistent, aesthetically appealing design of facades and large glass surfaces.
- Simple, favourably-priced individualisation.

\* Best performance LLumar Film when applied to 4mm clear single glazing.

\*\* Films do not eliminate fading; they help reduce it. UV rays and heat are contributing factors to fading, but other factors exist.