

A better environment inside and out.®

# Solar Gard® Window Film: The Smart Way to Save Energy for Your Home



Create a better environment  
both inside and out



## The Right Choice for Both the Environment and Your Budget

As a homeowner, you want to make smart choices to save energy, help the environment and preserve precious resources. These days it's easy to find home improvement products that call themselves green, but it's hard to decipher one environmental claim from another. How can you be sure a product will really save you energy?

When considering home improvement changes that have a big impact, start with your windows. Solar heat enters through your windows and causes heat to build up inside your home. This makes your air conditioning and cooling costs go up. But today's technology makes improving your existing windows a cost-effective way to lower your energy costs.

Solar Gard solar control window film can help you reduce your cooling costs at home by up to 30%<sup>1</sup> while improving comfort and maintaining your home's appearance. Less costly than installing new windows, adding Solar Gard solar control window film transforms your existing standard glass into high performance windows.



The U.S. Department of Energy's laboratory, Lawrence Berkeley National Laboratory, says that window film is the most cost-effective way to upgrade a building's windows.<sup>2</sup>

<sup>1</sup> Based on analysis using CAPSOL energy analysis software, with Slate 10 film applied, which is available through Solar Gard's elite Panorama® dealer network.

<sup>2</sup> "Cost Effective Building Envelope Options for Reducing Cooling Loads in Commercial Buildings," Lawrence Berkeley National Laboratory, University of California.

## Why Choose Solar Gard Window Film?

When it comes to making energy-efficient improvements to your home, Solar Gard window film is the right choice for both the environment and your budget.

### Energy efficiency

Solar Gard window films reject heat and keep interior temperatures stable, allowing you to cut cooling costs and energy consumption. By adding Solar Gard to your existing windows, you can reduce your cooling cost by up to 30%.

### Cost efficiency

Installing Solar Gard window film on your existing windows costs a fraction of replacing them, making it one of the most cost-effective ways to reduce energy consumption and increase the comfort inside your home. On average, installing window film is four times less costly than installing new windows.<sup>3</sup>



### Carbon costs

The carbon cost of one square meter of Solar Gard window film is less than ten kilograms. By comparison, a low-e wood frame window has a carbon cost of approximately 444 kilograms per square meter.<sup>4</sup>

### Greenhouse gas emissions

According to independently verified research, Solar Gard window films save 100 times more greenhouse gas emissions from entering the atmosphere than are used or created during their manufacture.<sup>5</sup>

### UV protection

Solar Gard window films filter visible light and block more than 99% of the harmful ultraviolet (UV) light associated with premature aging and skin cancer. With an SPF of 285+,<sup>6</sup> window film can also protect furnishings, carpets and more from fading and damage due to UV exposure.

<sup>3</sup> Solar Gard estimates based on data obtained from RSMMeans Construction Data Book 2011.

<sup>4</sup> 2011 Buildings Energy Data Book, published by the U.S. Department of Energy.

<sup>5</sup> Based on a useful life of 15 years, [www.environdec.com](http://www.environdec.com)

<sup>6</sup> Based on calculations using Lawrence Berkeley National Laboratory's OPTICS 5.1 window film analysis software.



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Solar Gard's 46 architectural solar control window films covered in the EPD sold during 2010-2011 saved 2.2 million tons of CO<sub>2</sub> from entering the atmosphere over their lifetime.<sup>7</sup> That's equal to:

- the carbon attributed to combusting 221 million gallons of gasoline, or
- the carbon offset by 50 million tree seedlings grown for 10 years.<sup>8</sup>

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<sup>7</sup>Based on Solar Gard's EPD, [www.environdec.com](http://www.environdec.com)

<sup>8</sup>[www.epa.gov/cleanenergy/energy-resources/calculator.html](http://www.epa.gov/cleanenergy/energy-resources/calculator.html)

## Solar Gard's Commitment to Environmentally Responsible Manufacturing

When you decrease your energy use, you are reducing your greenhouse gas emissions – and your carbon footprint. Solar Gard solar control films for your home are the first window films verified to be carbon negative,<sup>9</sup> saving more energy when they are installed than it takes to produce them.

As a manufacturer of an energy-saving product, making good choices that help the environment is our responsibility. Our investment in verifying the carbon impact of our films is just one part of our mission to produce environmentally conscious products you can be proud to buy.



For decades, Solar Gard has been dedicated to the ongoing process of reducing the ecological footprint of its products and production processes. The first window film manufacturer to measure and report the carbon impact of its products through a Environmental Product Declaration, Solar Gard includes a commitment to environmentally responsible manufacturing in its Environmental Health and Safety Policy.

### Beyond energy efficiency

#### **Curb appeal and privacy**

Solar Gard window films are offered in a range of shades to complement your home. Certain films can also shield your interior views from outsiders, giving you and your family more privacy.

#### **Safety and security**

Solar Gard offers safety and security film with and without solar control properties. They are designed to keep dangerous shards of glass together on impact, when glass is broken as the result of an accident, attempted burglary, storm or earthquake.

#### **Standards and certifications**

Solar Gard films are certified by the National Fenestration Rating Council (NFRC) to ensure consistent energy saving benefits. Their performance is also measured and reported in accordance with ASTM, ASHRAE and AIMCAL standards.

<sup>9</sup> According to EPD registrar [www.environdec.com](http://www.environdec.com)



Solar Gard® films are sold and installed through a network of dedicated partners globally. To find a partner near you go to [www.solargard.com/dealer\\_locator/find\\_a\\_dealer](http://www.solargard.com/dealer_locator/find_a_dealer).

More information is available at [www.solargard.com/energy/home](http://www.solargard.com/energy/home)



## Protect. Save. Renew.

Smart solutions that positively impact lives.

### About Solar Gard®

Solar Gard positively impacts lives with products that protect, save and renew. Headquartered in San Diego, California, Solar Gard makes industry leading architectural and automotive window films, photovoltaics and custom coatings. A division of Saint-Gobain Performance Plastics, a subsidiary of Saint-Gobain, the world leader in the habitat and construction markets, Solar Gard's architectural solar control window films are proven carbon negative and reduce global greenhouse gas emissions. Solar Gard products are sold in more than 90 countries under the Solar Gard®, Quantum® and Solar Gard Armorcoat® brands. For more information, visit [www.solargard.com](http://www.solargard.com).

[www.solargard.com/us](http://www.solargard.com/us)

Saint-Gobain Performance Plastics  
4540 Viewridge Avenue  
San Diego, CA 92123  
Tel: 877-273-4364  
E-mail: [info@solargard.com](mailto:info@solargard.com)

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