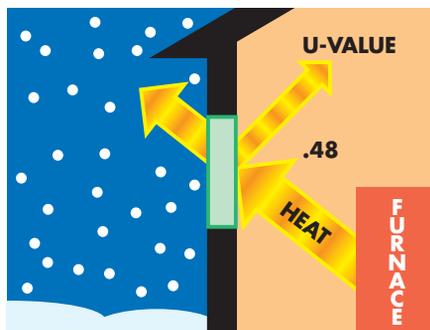
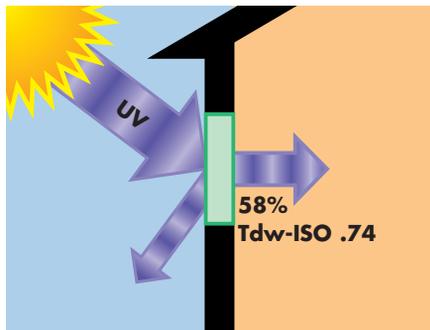
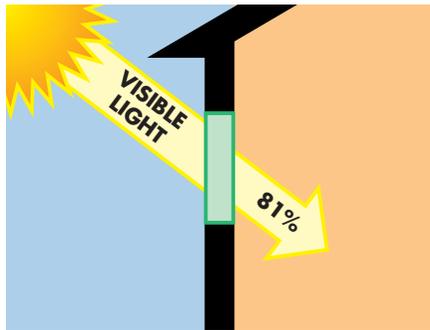
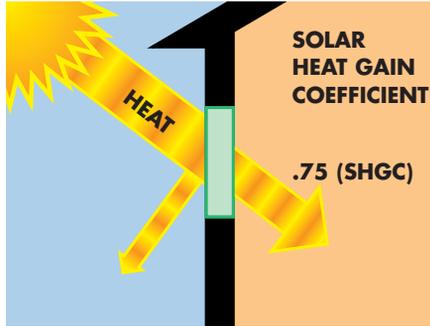




SOLARBAN® Features/Benefits Comparison

SOLAR CONTROL LOW-E GLASS **70XL**

Standard Clear Insulating Glass



Cooler In Summer

The total solar energy transmitted through *Solarban*® 70XL (2) glass is 64% less than that transmitted by standard clear insulating glass.

- Lower SHGC numbers mean less summer heat
- Keeps interiors cooler
- Helps reduce cooling energy costs

Transmits Visible Light/Appearance

The *Solarban*® 70XL (2) window transmits almost 80% as much desirable visible light as standard clear insulating glass.

- Provides exterior appearance similar to clear glass
- Provides glare control in bright, sunny climates

Fading Factors

While *Solarban*® 70XL (2) glass blocks 94% of damaging UV energy, it also blocks other contributors to fading — in all, 42% better than standard clear insulating glass.

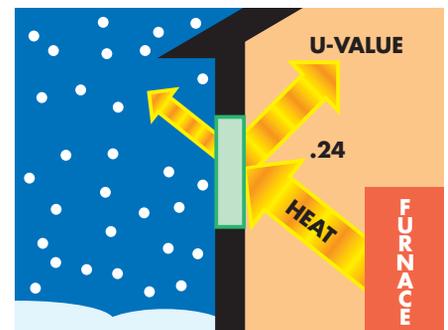
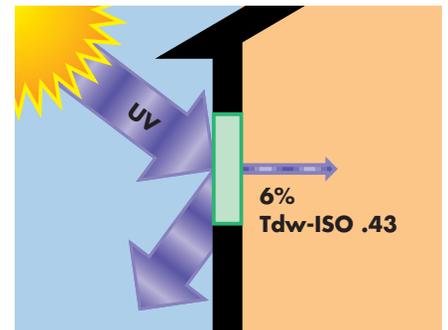
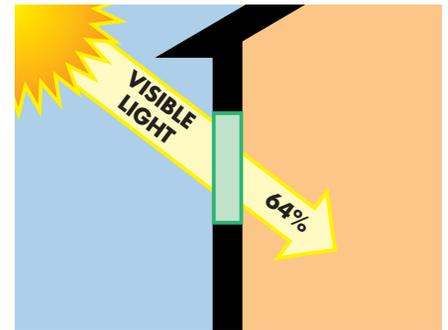
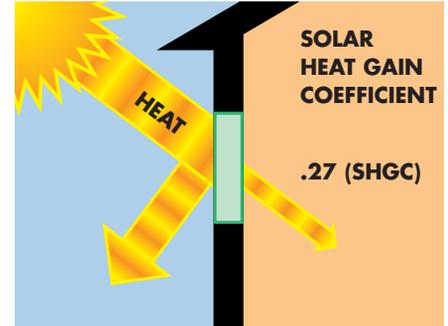
- Helps protect interior furnishings, fabrics and carpets from fading

Warmer In Winter

The winter nighttime U-Value (insulating value) of *Solarban*® 70XL (2) glass is as much as 50% better than standard clear insulating glass.

- Lower U-values mean higher performance
- Reduces furnace heat loss
- Helps reduce heating energy costs

Solarban® 70XL (2) Insulating Glass



Note: Tdw-ISO represents potential fading damage caused by both UV and visible light. It is considered by the U.S. Department of Energy and the International Standards Organization (ISO) to be a more accurate barometer of fade resistance than UV transmittance alone. All comparisons are center of glass based on an insulating unit containing 3/4" insulating units; two 1/8" (3mm) glass lights and a 1/2" (12mm) air-filled space for the standard clear insulating glass and argon gas-filled space for the *Solarban*® 70XL insulating glass. Actual glass performance may differ due to glass thickness, gas fill and glass to frame ratio.

Solar Heat Gain Coefficient (SHGC) represents the solar heat gain through the glass relative to the incident solar radiation. It is equal to 86% of the shading coefficient.

Figures may vary due to manufacturing tolerances. All tabulated data are based on the National Fenestration Rating Council (NFRC) methodology, using the Lawrence Berkeley National Laboratory's Window 5.2 software.

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 **Glass Technology**
Since 1883



All PPG architectural glass is Cradle to Cradle Certified™. Cradle to Cradle is a certification mark for MBDC.



PPG customers use our products to manufacture Energy Star compliant windows, doors and skylights.



be comfortable

Choosing windows? The decision is an easy one when you know PPG glass: the glass that offers quality, innovation, durability, and comfort in any climate.

Windows made with PPG glass will help you feel more comfortable in many ways. We make glass to keep you warm on a chilly winter's night and cool on the hottest day of summer. We make glass that increases energy efficiency. We even make a glass that cleans itself.

Solarban 70XL Solar Control Low-E Glass is specially coated to transmit high levels of sunlight while blocking the heat generated by the sun. In the winter, the same coating helps reduce the escape of furnace heat.

WITH SOLARBAN® 70XL GLASS, THE BEST CHOICE FOR ENERGY-EFFICIENT GLASS IS CLEAR.

With an unparalleled combination of visible light transmittance, energy-saving solar control and a clear glass appearance, Solarban 70XL Solar Control Low-E Glass by PPG represents the most dramatic advance in window glass in more than a decade.

In a standard insulating glass unit, the clear appearance of Solarban 70XL glass permits 64 percent of the sun's natural light to enter your home while blocking 73 percent of its heat energy. That means you can get the clear glass appearance most homeowners favor – together with summer cooling cost savings of up to 25 percent – in one brilliant package.

When you buy windows made with Solarban 70XL glass, here's what you get:

COOLER IN THE SUMMER

Thanks to its special low-emissivity (low-e) coating, a window made with Solarban 70XL glass allows 65 percent less heat from the sun to enter your home than a window with ordinary glass. That can reduce summer cooling costs by up to 25 percent. Solar Heat Gain Coefficient (SHGC) is a measure of how much solar heat is transmitted through the glass. A lower SHGC means less summer heat.

COMFORTABLE, ABUNDANT LIGHT

Solarban 70XL glass has a proprietary solar control low-e coating that blocks almost 3/4 of the sun's heat energy while transmitting abundant natural light.

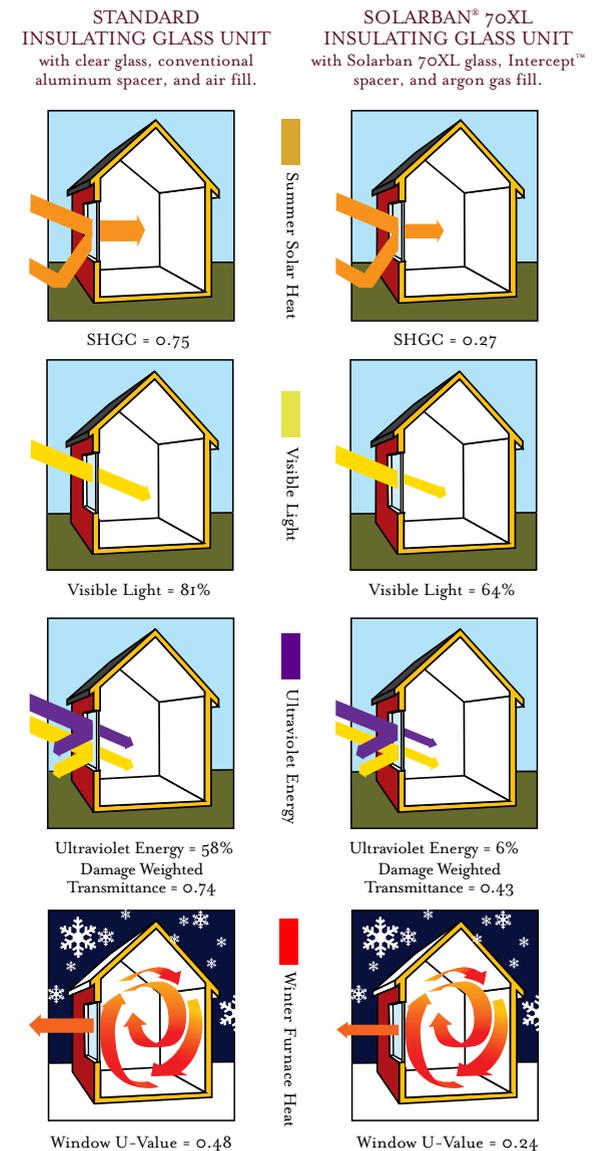
FADE PROTECTION

The solar control, low-e coating of Solarban 70XL glass blocks ultraviolet (UV) energy, which is traditionally associated with fading, 90% more effectively than ordinary glass. However, a more complete measure of fading resistance called "damage-weighted transmittance," shows that Solarban 70XL glass also protects your fabrics, furniture and carpets from fading caused by visible light.

WARMER IN THE WINTER

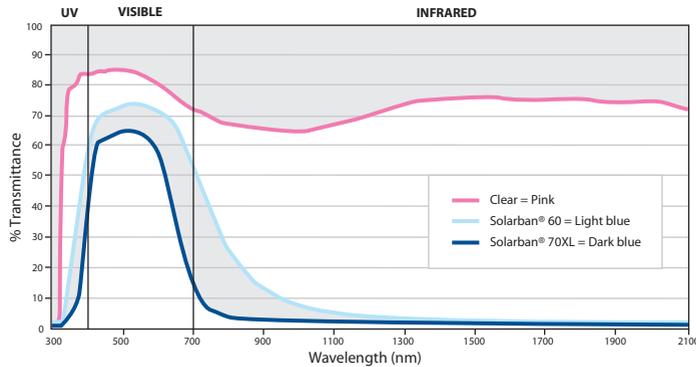
Furnace heat lost through your windows is at its peak on winter nights. When your windows are made with Solarban 70XL glass instead of ordinary glass, this heat loss is cut nearly half, meaning lower heating bills.

Damage Weighted Transmittance is calculated according to a function called T_{dw}-ISO, developed by the International Standards Organization (ISO) and published by the International Commission on Illumination (CIE), the world's leading technical organization on lighting and illumination. The T_{dw}-ISO calculation measures fading risk from solar radiation across the entire solar light spectrum, from UV light (280-380 nanometers) through visible light (390-780 nanometers). According to the CIE standard, which is considered more comprehensive than UV rating alone, Solarban 70XL glass can minimize fading damage across the entire solar spectrum more effectively than glass designed primarily to block UV light.



BE COMFORTABLE WITH YOUR ENERGY BILL

PPG Solarban 70XL Solar Control Low-E Glass helps your home be more energy-efficient all year round. The microscopically thin low-e coating blocks solar energy in the summer and reduces the escape of heat in the winter without altering the appearance of your window inside or out.



As this chart demonstrates, compared to clear glass and another leading solar control low-e glass, Solarban 70XL glass dramatically reduces the amount of infrared energy (heat) that enters your home while still providing high levels of visible light transmittance (sunlight).

And make no mistake, the savings are real. In fact, Solarban 70XL glass is already revolutionizing the commercial glass market, saving owners and operators of large commercial buildings millions of dollars in cooling costs and equipment. Now the same technology they've come to know and trust is available for your home.

Note: Comparisons are based on center of glass measurements of 3/4" insulating glass units; two 1/8" (3mm) glass panes and a 1/2" (12mm) space filled with air for the ordinary insulating glass and filled with argon gas for the Solarban 70XL insulating glass. Actual glass performance may differ slightly due to glass thickness, gas fill and glass-to-frame ratio. All tabulated data is based on the National Fenestration Rating Council, using the Lawrence Berkeley National Laboratory's Window 5.2 software, the preeminent window performance measurement standard in North America.

SELECT PPG GLASS WITH CONFIDENCE

You can be comfortable with your choice of PPG residential glass. PPG has been at the forefront of residential glass technology and innovation since 1883 and has pioneered many of the glass technologies you'll find in some of the world's best windows.

Contact your window dealer or call 1-888-PPG-GLAS (1-888-774-4527) for a list of window manufacturers that use PPG glass. More information for homeowners and construction professionals is available on our web site, www.ppgglass.com.



be comfortable
WITH SOLARBAN™ 70XL
SOLAR CONTROL LOW-E GLASS



IT'S WHAT TO LOOK FOR IN A WINDOW™



PPG customers use our products to manufacture Energy Star-qualified windows, doors and skylights.

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