

Output value of solar glass





Overview

What G-value should a Photovoltaic Glass have?

Photovoltaic glass can be customized to achieve a solar factor between 6% and 41%. A low g-value is desirable to prevent overheating, especially in warm climates, as it prevents the interior temperature from rising too high due to the greenhouse effect.

How does glass improve photon absorption & conversion?

Advances in glass compositions, including rare-earth doping and low-melting-point oxides, further optimize photon absorption and conversion processes. In addition, luminescent solar concentrators, down-shifting, downconversion, and upconversion mechanisms tailor the solar spectrum for improved compatibility with silicon-based solar cells.

Why should you choose Onyx Solar Photovoltaic Glass?

The multifunctional properties of photovoltaic glass surpass those of conventional glass. Onyx Solar photovoltaic glass can be customized to optimize its performance under different climatic conditions. The solar factor, also known as “g-value” or SHGC, is key to achieve thermal comfort in any building.

What is the difference between g-value and solar factor?

On the other hand, the Solar Factor (known as the 'g-value' or Solar Heat Gain Coefficient, SHGC) indicates the amount of heat energy the glazing will allow into the building in relation to the energy it receives as solar radiation. What is the customization range available for the Solar Factor (g-value) in Onyx Solar glass?



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