

# **Solar glass transmittance 5**





## Overview

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What is the difference between solar energy transmittance and solar energy reflectance?

Solar energy transmittance: the fraction of solar energy transmitted through a glass. Solar energy reflectance, front: the fraction of solar energy reflected by the front side of a glass. Solar energy reflectance, back: the fraction of solar energy reflected by the back side of a glass.

What is the transmittance of uncoated solar glass?

The transmittance of conventional uncoated solar glass at a vertical incidence of light is approximately 91%. The front reflects around 4%, around 4% on the back, and 1% absorption. In addition, there are double reflections within the glass, which is in the order of 0.2%.

What is a good solar transmittance?

To start, an uncoated glass showed a very constant solar transmittance, with longtime values from the different sites near the ASTM value. If a standard antireflective coating is applied, the typical longtime solar transmittance is between 82.7% and 85%.

What is the longtime solar transmittance of low-E glass?

Longtime solar transmittance The longtime solar transmittance of low-e glass corresponds to the total quantity of the sun's radiant energy which passes through a window in a year. Table 3 shows the results, with the lowest values in red and the highest values in green.



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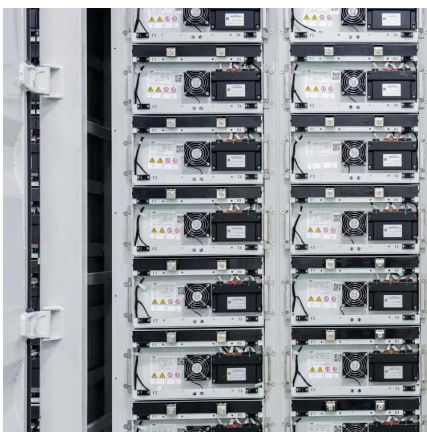
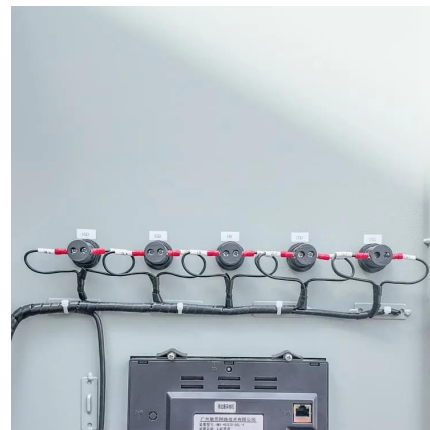


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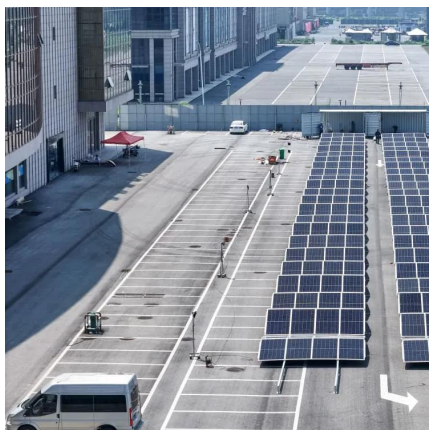
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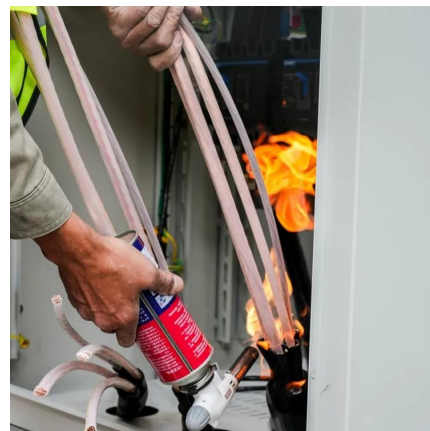


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## **Solar Glass**

Solar glass is a specialized low-iron, tempered soda-lime silicate glass, often enhanced with an anti-reflective coating. This combination delivers ultra-high light transmittance, superior ...



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