

Transmittance of solar glass





Overview

What is solar transmittance?

Solar transmittance is defined as the ratio of solar radiation perpendicularly incident on window glass that is transmitted through the glass and calculated according to a formula specified in JIS R 3106 Testing method on transmittance, reflectance and emittance of flat glasses and evaluation of solar heat gain coefficient.

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 solar energy direct transmittance (T_e)?

Solar Energy Direct Transmittance (T_e , %) is the percentage of incident solar energy in the wavelength range of 300 nm to 2500 nm that is directly transmitted by the glass. Solar Direct Reflectance Outdoors/Indoors ($R_{e\ out/in}$, %) is the percentage of incident solar energy directly reflected by the glass.

How does JIS regulate solar transmittance?

JIS regulates solar transmittance as an index of the transmission characteristics of sunlight, which includes visible to near-infrared light. In this example, several types of glass were measured using a UV-3600 UV-VIS-NIR spectrophotometer and their solar transmittance was calculated using solar transmittance software.



Transmittance of solar glass



Solar Transmittance

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Measurement of Solar Transmittance through ...

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Impact of Different Types of Dust on Solar ...

May 26, 2025 · The transmittance of conventional uncoated solar glass at a vertical incidence of light is approximately 91%. The front reflects around ...

Impact of Different Types of Dust on Solar Glass Transmittance ...

May 26, 2025 · 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% ...



Measurement of Solar Transmittance through Plate Glass

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Performance value terms

Solar Energy Direct Transmittance (T_e , %) is the percentage of solar energy at normal incidence directly transmitted through the glass. Solar Energy is ...



Transmittance, absorbance and reflectance ...

Transmittance, absorbance and reflectance versus wavelength in the whole solar spectrum measured for a float glass (left) and for a glass with low ...





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 ...



Spectral transmission of solar radiation by plastic and glass ...

Jul 1, 2020 · In this paper we analyse the spectral transmission of solar radiation of widely used materials using the transmittance parameter. The measurements were performed on clear ...

Measurement of Solar Transmittance through ...

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Performance value terms

Solar Energy Direct Transmittance (T_e , %) is the percentage of solar energy at normal incidence directly transmitted through the glass. Solar Energy is the radiant energy from the sun having ...



Solar Transmittance

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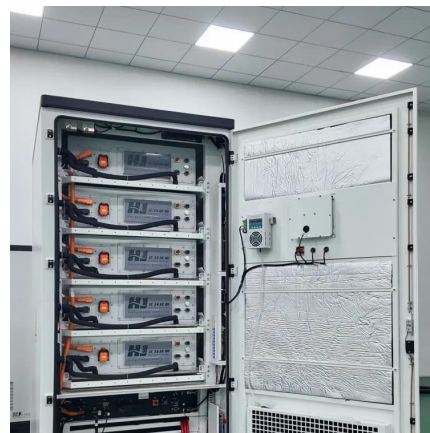
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Transmittance, absorbance and reflectance versus wavelength ...

Transmittance, absorbance and reflectance versus wavelength in the whole solar spectrum measured for a float glass (left) and for a glass with low emittance coating (right). Incident light ...



Transmission of Solar Energy Through Transparent ...

Aug 29, 2017 · The normalised transmittance curve of one sheet of 3 mm float glass superimposed upon several approximating transmittance curves calculated according to the ...





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