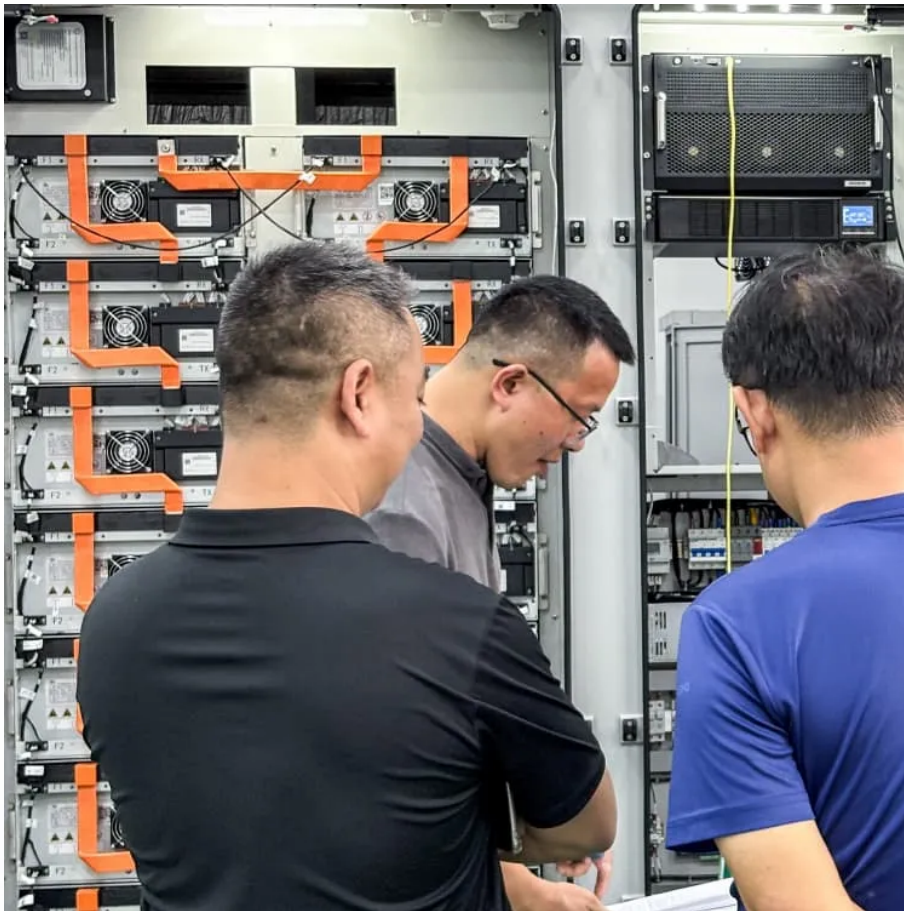


# Solar glass transmittance range





## Overview

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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.

What is visible light transmittance?

Visible Light Transmittance ( $T_v$ , %) is the percentage of incident light in the wavelength range of 380 nm to 780 nm that is transmitted by the glass. Visible Light Outdoors/Indoors ( $R_{e\ out/in}$ , %) is the percentage of incident solar energy directly reflected by the glass.

Which material has the highest spectral transmittance of solar radiation?

This study analyse spectral transmission of solar radiation of glass and plastics. The 8 h transmittances are higher than at 12 h and are higher in winter than summer. Methacrylate and smoked glass have the highest transmittance in UV, VIS and NIR ranges. Polycarbonate has the lowest transmittance in UV, VIS and NIR ranges.



## Solar glass transmittance range

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### [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% ...

### [Spectral transmission of solar radiation by plastic and glass ...](#)

Jul 1, 2020 · Smoked glass has high transmittance in the UVA and VIS and NIR bands (range 70-80%), VIS transmittance being about 7% higher than NIR. The internal composition, a ...

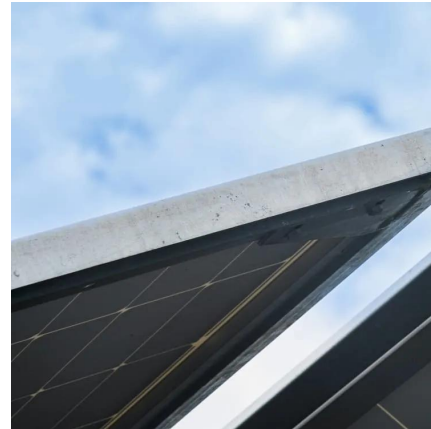


### [Evaluation for the Light Transmission ...](#)

In this work a new parameter of effective transmittance in the 380-1200 nm region which was consistent with the spectral response range of solar ...

### [Evaluation for the Light Transmission Property of Solar Glass](#)

In this work a new parameter of effective transmittance in the 380-1200 nm region which was consistent with the spectral response range of solar cells was proposed and calculated to ...



### [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 ...



### 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 ...



### Performance GUIDE

Sep 2, 2022 · VLT ( $T_{vis}$ ) is the percentage of visible light (wavelength range 380-780nm) transmitted through the glass. The higher this figure the solar heat (T) and the portion of the ...





[Measurement of light and solar direct transmittance ...](#)

Apr 1, 2020 · Measurement of visible light and solar transmittance The Model UH5700 spectrophotometer was equipped with a glass filter holder to measure the transmission ...



[SPF More info about solar glass - Optical properties . OST](#)

More info about Solar Glass - Optical Properties The efficiency of solar glass is evaluated using the following parameters: Optical transmission Transmission measurement for wave-lengths in ...

[Measurement of Solar Transmittance through Plate Glass](#)

Dec 8, 2025 · UV-3600i Plus UV-VIS Spectrophotometer Solar transmittance is defined as the ratio of solar radiation perpendicularly incident on window glass that is transmitted through the ...



**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 ...



### [Transmittance of single-glass photovoltaic panels](#)

The transmittance of a single clear glass in the visible range (380-780 nm) is approximately 90%, as illustrated in Fig. 1 (b). Traditional windows with both high SHGC and This is a ...

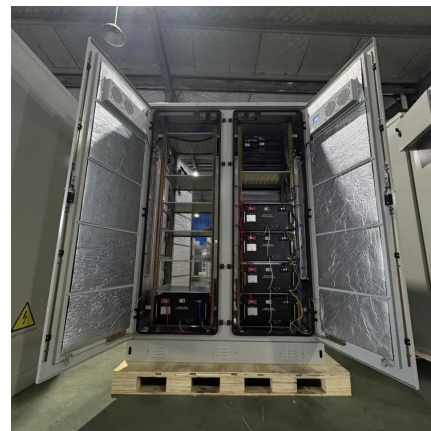


### [Measurement of Solar Transmittance through ...](#)

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The efficiency of solar glass is evaluated using the following parameters: Optical transmission ...



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