

Solar glass sun room light transmittance





Overview

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.

What is visible light transmittance (VLT)?

Visible light transmittance (VLT) is a percentage of the visible portion of the solar energy spectrum coming through the glass. It is expressed as a figure between 0 (no light) and 100 (all light). This value measures the ability of the glass to transmit light and facilitate daylighting.

What is the difference between visible transmittance and visible reflectance?

Visible transmittance (τ_v) and visible reflectance (ρ_v) refer to the ratio of the beam of visible light vertically incident on a glass surface to the incident beam of transmitted light or reflected light.



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a Solar heat gain through a single-glass window; b spectral

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Solar Transmittance/Solar Reflectance Measurement

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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 ...

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 ...

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Calculation of solar and light transmittance

The method is applicable to any type of sun protection devices in parallel with glazing, such as shutters or blinds. Sun protection devices can be installed inside a protected room, outside or ...

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