
Solar glass transmittance standard

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 are the measurement methods for flat glass conforming to JIS R3106?

The various measurement methods for flat glass conforming to JIS R3106 are introduced below. JIS R3106 stipulates methods for measuring and calculating visible transmittance, visible reflectance, solar transmittance, solar reflectance, and normal emittance as indices for expressing the properties of flat glass.

What is UV transmittance (T_{UV})?

Ultraviolet (UV) Transmittance (T_{uv} , %) is the percentage of the incident UV component of the solar radiation in the wavelength range of 280 nm to 380 nm that is transmitted by the glass.

JIS R3106 "Testing Method on Transmittance, Reflectance and Emittance of Flat Glasses and Evaluation of Solar Heat Gain Coefficient"; JIS R3106 stipulates methods for ...

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

The type of solar glass directly influences the amount of solar radiation that is being transmitted. To ensure high solar energy transmittance, glass with low iron oxide is typically used in solar ...

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