Solar glass transmittance judgment

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%.

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.

What is solar transmittance measurement software?
Solar transmittance measurement software* is used to calculate solar transmittance (or reflectance) values from transmittance (or reflectance) spectra according to the specified formula. * This software can only be used to calculate values for single panes of glass and cannot be used for multiple panes of glass.

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 ...

Transmittance is the key factor to the quality of solar glass. At present visible light transmittance (380-780 nm) and solar direct transmittance (300-2500 nm) were used to evaluate the light ...

Solar Factor or Total Solar Energy Transmittance or g-value (g%) is the total solar radiation transmitted by the glass. Shading Coefficient (sc) is Solar Factor divided by 0.87. It is a ...

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 ...

The TI-system modelled consisted of a 6 mm outer glass pane, a 22 mm wide polymethylmethacrylate (PMMA) capillary cell section and an 8 mm inner glass pane. When ...

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1 Introduction Thanks to the use of nanotechnology and the introduction of morphological changes of the glass surface used in the manufacture of solar glasses, D.A. Glass Company, were ...

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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 ...

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