

# What does the Y value of solar glass transmittance mean





## Overview

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What is the difference between visible light reflectance and solar energy transmittance?

Visible light reflectance, front: the fraction of visible light reflected by the front side of a glass. Visible light reflectance, back: the fraction of visible light reflected by the back side of a glass. Solar energy transmittance: the fraction of solar energy transmitted through a glass.

How is spectral transmittance measured?

Examples of Film Measurements The spectral transmittance is obtained by measuring the transmittance of 3 mm-thick glass with film attached to one face. For these tests, we determined the visible light transmittance, UV transmittance, solar transmittance, solar reflectance, and shading coefficients for four types of film adhered to 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 the difference between spectral reflectance and UV transmittance?

Spectral reflectance, front: the fraction of radiation of a specific wavelength reflected by the front side of a glass. Spectral reflectance, back: the fraction of radiation of a specific wavelength reflected by the back side of a glass. UV transmittance: the fraction of ultraviolet (UV) radiation transmitted through a glass.



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### Solar Transmittance

Insulation glass Solar control Basic principles Principles of solar control Light transmittance  
LT The light transmittance of a glazing product describes the percentage share of solar radiation  
...

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### Measuring Solar Transmittance and Solar ...

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### Solar Transmittance/Solar Reflectance Measurement

4 days ago · Solar Transmittance and Solar Reflectance Solar transmittance (?e) and solar reflectance (?e) refer to the ratio of the radiant flux of solar energy vertically incident on a glass ...

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### Complete list of glass optical & thermal properties

Apr 18, 2021 · A complete list of commonly used optical & thermal properties of architectural glasses (VLT, U-value, SHGC, SC and more).

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### Performance value terms

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 ...

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### Measurement of Solar Transmittance through ...

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### Measurement of Solar Transmittance through Plate Glass

4 days ago · 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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### Performance value terms

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.

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### Complete list of glass optical & thermal ...

Apr 18, 2021 · A complete list of commonly used optical & thermal properties of architectural glasses (VLT, U-value, SHGC, SC and more).

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### TIE-35: Transmittance of optical glass

For high index glass types with  $n_d > 1.83$  the data of the color codes refer to the transmittance values 0.70 and 0.05 (I70 and I5) because of the high reflection loss of this glass (refer to ...

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WINDOWS 101: EPISODE FIVE FACT SHEET Optical ...

Jun 25, 2024 · Optical Properties of Windows Controlling visible light transmittance, solar heat gain and thermal insulation of a window is key for making it energy efficient. These properties ...

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Measuring Solar Transmittance and Solar Reflectance, Part 2

4 days ago · The previous issue, UV Talk Letter Vol. 5, introduced measurement methods for flat glass, in compliance with JIS R3106 "Testing method on transmittance, reflectance and ...

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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 ...

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