Solar glass transmittance value and y value

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.

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 front side of a glass. UV transmittance: the fraction of ultraviolet (UV) radiation transmitted through a glass.

What is total solar energy rejected (TSER)?
Total solar energy rejected (TSER): the fraction of solar energy not transmitted through a glass as heat. Light-to-solar-gain ratio (LSG ratio): the ratio of the visible light transmittance of a glass to its SHGC. Relative heat gain (RHG): the rate of heat gain through a glass under a summer daytime condition.

What are the factors affecting the choice of glass?
The main values in the choice of glass are thermal transmittance,light transmittance,and the solar factor. The solar factor g is the ratio between the solar energy that manages to pass through the glass entering the environment and the total solar energy that strikes the outer surface of the glazing.

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 ...

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.

SHGC is a calculation of glass solar performance and the lower the figure, the better the glass is able to exclude solar radiation and heat. With reference to 5mm grey ...

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This value measures the ability of the glass to transmit light and facilitate daylighting. Solar Heat Gain Coefficient (SHGC) Solar heat gain coefficient (SHGC) is the ...

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When it comes to choosing the right glass for your facades, windows or doors, understanding key performance measures is crucial. These metrics help you evaluate how ...

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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 ...

The optical properties of uncoated glass are sometimes specified by index of refraction, n, and transmittance at normal incidence, T. The following equations show how to ...

The main values in the choice of glass are thermal transmittance, light transmittance, and the solar factor. The solar factor g is the ratio between the solar energy that ...

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

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