North Africa Transmittance 40 solar Glass

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.

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.

Which material has the highest spectral transmittance of solar radiation?
This study analyse spectral transmission of solar radiation of glass and plastics. The 8 h transmittances are higher than at 12 h and are higher in winter than summer. Methacrylateand smoked glass have the highest transmittance in UV,VIS and NIR ranges. Polycarbonate has the lowest transmittance in UV,VIS and NIR ranges.

What is solar energy direct transmittance (Te)?
Solar Energy Direct Transmittance (Te, %) 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 (Re out/in, %) is the percentage of incident solar energy directly reflected by the 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.

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