

SOLAR PROPERTIES

PROPERTY EXPLANATIONS

Ts Solar Transmittance

The amount of energy transmitted through the fabric.

Rs Solar Reflection

The proportion of solar energy that is reflected by the fabric. The lighter the colour the better the reflection. E.g. Solar View White reflects 64%, while black reflects only 6%.

As Solar Absorbance

The proportion of solar energy that is absorbed by the fabric. The darker the fabric the more solar energy that is absorbed by the fabric. Note. The sum of transmittance, absorbance and reflection always = 100%. ($T_s + A_s + R_s = 100$)

Tuv

The amount of UV that is transmitted through a fabric. A Tuv of 7 means that 93% of the UV is blocked. This is important when considering protection of flooring, furnishing fabrics and furniture against fading.

Tv

Is the amount of glare a person receives through the fabric. The Green Building Council rating system requires a Tv of less than 10. Glare increases in winter when the angle of the sun is lower.

O-F Openness Factor

This measures the proportion of holes in a woven fabric. 5% openness = 5% holes in 1 sqm. The more open the more solar heat admitted through the fabric. Openness also affects the degree of visibility.

Solar properties are important when selecting screen fabrics, as the efficiency of the fabric depends on the colour chosen.

When advising a customer on the fabric that they should use there are a number of factors that should be considered.

All Texstyle screen fabrics are tested in USA by Matrix Inc, when these tests are conducted the fabric and the glass are tested together. Here is the explanations of the solar property test results.

SOME OTHER THINGS TO NOTE

1. In summer heat gain through a glass window can be as much as 87%, while in winter heat loss can be up to 49%.
2. Depending on the colour chosen the temperature in a room can be lowered by 5 to 15 degrees C in summer and can reduce the need for air conditioning by 25 – 30%. This is a considerable saving in power consumption and also aiding the reduction in greenhouse gas emission.
3. Dark colours give a better view, while light colours offer more efficient heat protection.

VISIT TEXSTYLE'S WEBSITE

WWW.TEXTSTYLE.COM.AU

OR PHONE 03 9729 9970



TEXSTYLE