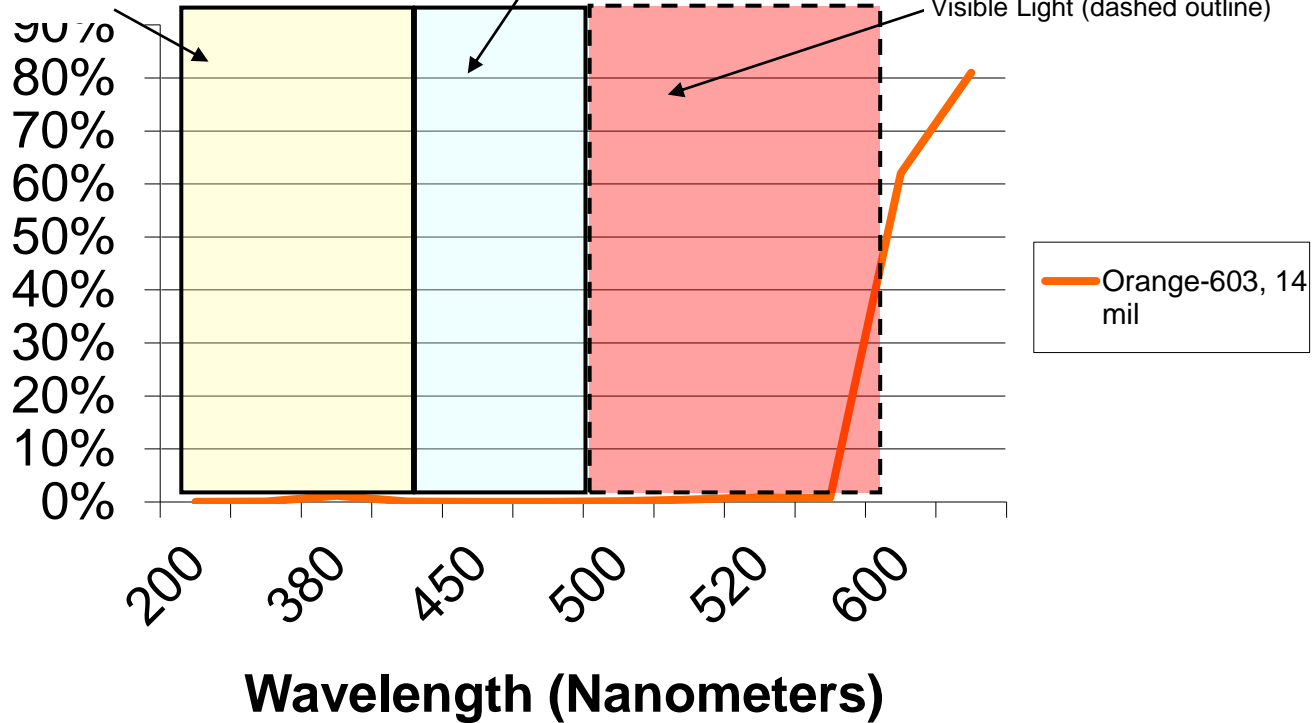


Welding Screen Material Performance

Most Harmful area in yellow, heavy outline: UVB 290>320, UVA 320>400

"Blue Light" area in light blue, heavy outline: 400-500nm range, possibly irritating and annoying to eyes

Spectral Light Transmission



Spectral Light Transmission- Amount of a light ray that is allowed to pass through. 0% means 100% blocked, 100% is like looking through a clear lens

Wavelength- How the light is measured

Ultraviolet light- Light that is not able to be seen by the eye. Some of this light is harmful and some is not. The graph highlights the harmful areas.

Explanation

1. The eye can only see in the red shaded area: 500-700nm. Light rays here are not dangerous.
2. The area from 200-400nm cannot be seen by the eye but is the most potentially dangerous.
3. The goal is to block as much of these harmful rays as possible in the 200-400nm range (yellow shaded area).
4. Tillman 603 blocks 99+% of the most harmful rays.
5. The area from 400-500nm is called "blue light". This area is on the border of light that can be seen and can cause eye irritation. Here the Tillman 603 curtain provides the best performance.