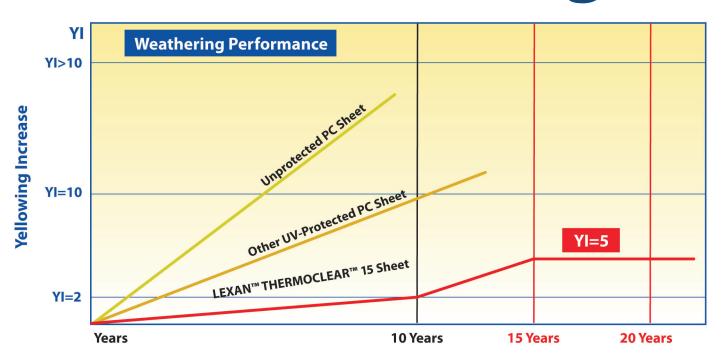


The Science of Light



Why is the Polycarbonate Yellowing Index important?

- As a glazing material, polycarbonate sheets are often exposed to the sun's UV rays.
- The sheet's outer protective layer is constantly under ultraviolet radiation attack.
- Over time, these UV rays break down this protective layer, causing the sheet to yellow.
- This yellowing color indicates a general degradation of the polycarbonate sheet.
- General degradation = Loss in mechanical properties: Light transmission and impact resistance.
- The Yellowing Index (YI) measures the difference in sheet color compared to its original color.
- The YI is a very important factor to determine the quality of a polycarbonate sheet.
- The industry standard is to measure "yellowing" in terms of Delta YI.
- The Delta YI number is a key differentiator in a polycarbonate manufacturer's warranty.
- Yellowing sheets are not aesthetically pleasing.