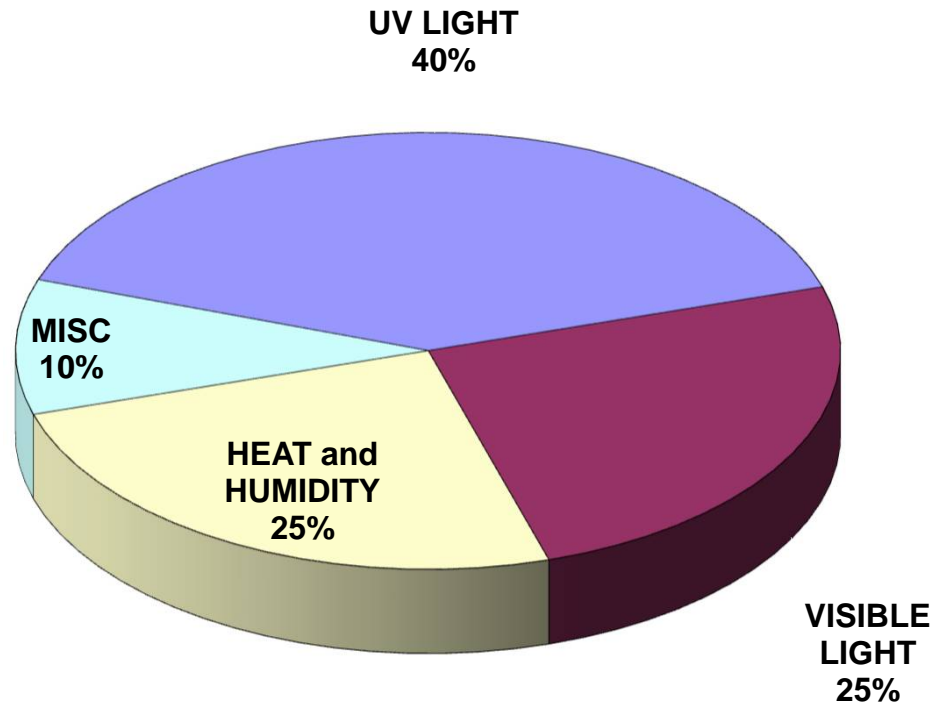


**FACTORS THAT CAUSE FADING OF MATERIALS**

*"As a Rule of Thumb"*



**FACTORS AFFECTING FADING**

1. ULTRAVIOLET LIGHT
2. VISIBLE LIGHT
3. HEAT AND HUMIDITY
4. MISCELLANEOUS FACTORS
  - *Chemical Vapors (including ozone)*
  - *Indoor Artificial Lighting*
  - *Age of Fabrics and Materials*
  - *Dye Fastness*

**ULTRAVIOLET LIGHT SPECTRUM**

- LIGHT WAVELENGTHS SMALLER THAN VISIBLE LIGHT
- COMPOSED OF UVA, UVB & UVC
  - UVC • SCREENED BY THE OZONE
  - UVB • SCREENED BY GLASS
  - UVA • SCREENED BY UV INHIBITORS
    - *Laminated Glass*
    - *Polycarbonate or Acrylic Glazing Material*
- ULTRAVIOLET LIGHT CAN BE SCREENED EFFECTIVELY WITH LAMINATED GLASS, POLYCARBONATE OR ACRYLIC BUT CAN NEVER BE COMPLETELY ELIMINATED