Essilor Labs of America Glossary

**Lens Material**

- **Polycarbonate** – Most impact resistant lens available. Lightest in weight compared to glass or plastic lenses. Has built in UV protection. Has built in scratch coat.
- **Plastic** – Plastic Resin lens. Heavier than Polycarbonate, lighter than glass. UV protection must be applied. Scratch Coating must be applied.
- **Glass** – Thickest, heaviest lens used in safety eyewear. Commonly used by welders because of built in protection to infrared and UV light. Also is chem hardened, the equivalent of a scratch coat.

**Options/Enhancements**

- **Tints** -
  - **Solid Tints** – 3 Levels of solid tint are available.  
    #1 which equals 10% (indoor use)  
    #2 which equals 20% (outdoor use)  
    #3 which equals 30% (sunglass).  
  - Can be applied to all Plastic and Polycarbonate lenses via soaking lenses in tint solution for varied amounts of time based on degree of shade requested.  
  - Most Glass lenses can be tinted but some require a “color coat” in which the coloring is “sprayed on”. This will often result in the tint peeling off of the glass lens.
  - **Gradient Tints** – Fashion tints. Tint is dark on top of lens and lighter on the bottom of the lens. Not very common anymore.
- **Photochromics** - Glass “changeable” lenses. Also known as Photogrey Extra or Photobrown Extra. Lens that changes from a clear/light tint to a dark sunglass when exposed to UV light.
- **Transitions** - Next Generation Transitions – Plastic and Polycarbonate version of Glass Photochromic lens. Lighter and quicker to change from clear to dark and vice versa. Best “changeable” lens on the market
- **Anti Reflection** - Glare reducing lens treatment.
- **VDT** - Video Display Terminal lens (computer glasses). These lenses have anti reflective coating for computer glare and are for reading and intermediate vision, not distance vision.
- **Executive Multifocals** - Executive biofocal and executive multifocal. Wider viewing area across the full lens rather than a half moon.
- **Double Segs-Plastic** - For staff needing bifocal on bottom and on top of lens.
- **Large Segments** - Standard biofocal width is 25 and 28 mm wide. This is wider 35mm wide.
- **TD2 Coating** - Proprietary scratch coating of Essilor Labs of America. Superior scratch coating that comes with a one-year warranty vs. scratching. Toughest, most durable scratch coat on the market.
- **Crizal Alize’** - Proprietary AR Coating of Essilor Labs of America. Superior AR Coat that is combined with the TD2 coating mentioned above. Offers best of both worlds. Also comes with one-year warranty vs. scratching.
- **Crizal Alize’ with Clear Guard** - Superior AR Coat that is combined with the TD2 coating mentioned above. Anti-particulate technology that keeps dust, dirt and lint from being attracted to the lens. Repels smudges, fingerprints and water. Also comes with one-year warranty vs. scratching.