

## 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.