

### Introduction

Choosing the right lens material for your eyeglass frames is an important step in the process

Source: <https://www.arlingtonoptical.com/lenses/>

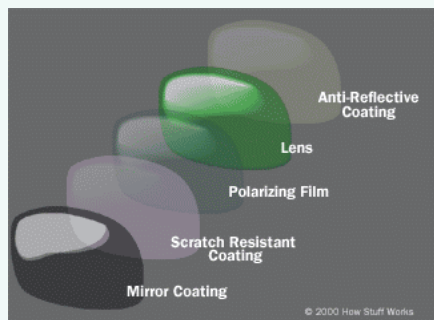
### Lens Material

**Polycarbonate:** Although this material is impact-resistant, it still scratches easily. Truth is, it's an older industry lens material, and while still functional, it's not the best choice. Kind of like that VHS player you have stored away in the basement, it may still work, but modern technology offers other, more advanced alternatives. Still, it's worth noting that children's lenses should be made of polycarbonate or trivex for your child's safety

**Trivex:** This material is both impact- and scratch-resistant. No wonder our opticians like it the best. And because it's also highly durable, Trivex is the preferred lens option for children's eyeglasses, rimless and semi-rimless frames, and frames designed for safety eyewear. Hands down, it's the most durable lens material available today.

**Hi-Index:** For people who want the lightest, thinnest specs with UV protection, hi-index lenses are the perfect solution. High on comfort and attractiveness, these lenses come in varying degrees of thinness, measured by an index that ranges from 1.6 – 1.67 – 1.70 – 1.74

### Coatings



### Lens Treatment/Coatings

**Scratch-Resistant Coating:** Although this special coating helps resist scratches on the surface of the lens, it is not scratch-proof. If handled improperly, the lens can still be scratched.

**UV Protection:** Ultraviolet radiation can play a significant role in the development of various eye conditions, such as cataracts, skin cancer, pterygium and macular degeneration. That's why we're committed to only selling sunwear with 99- to 100-percent UV-A/UV-B protection.

**Anti-Reflective Coating:** This is especially useful for night driving as it helps to avoid the blinding effect from headlights and streetlights. It's also helpful for people who spend a great deal of time staring at a computer screen, which can lead to eye strain and is often associated with symptoms like blurry vision, dry eyes and irritation. Have you ever noticed that a glare on someone else's eyeglasses can prevent you from seeing that person's eyes? It simply means that his or her specs don't have an anti-reflective coating. **Polarization:** A favorite of sports enthusiasts—especially boaters and fishermen—this technique blocks dangerously intense glare, which is the result of scattered light traveling in a horizontal direction. Polarized sunwear lenses reduce the glare with a special filter that blocks the intense reflected light

**Photochromatic:** This type of lens gradually adjusts its tint level in response to UV light exposure. You may have heard of brands like Transitions or Driveware. Photochromatic lenses eliminate the need to switch to sunglasses when you venture outdoors for most activities. Much like sunblock protects your skin, these lenses block out 100 percent of the sun's harmful UV rays. Unfortunately, because Transitions need UV light to activate, they won't darken when you're driving a car. That's because car windshields have built-in UV blockers. Driveware, on the other hand, is always tinted and will darken in the car but will not transition to totally clear indoors, making it an outside-only lens.

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