



As kids go “back to learning” this Fall, many aspects of their lives have changed – including the school schedule and learning structure. More than ever, parents are looking for the best supplies, resources and tools for a successful school year. This includes finding eyewear that meets the specific needs of kids’ eyes, including durability, optical quality and protection – from impact, from harsh cleaners and chemicals and from UV and harmful blue light.

[Trivex® lenses](#) are an ideal choice for kids. *Trivex* is a urethane-based pre-polymer originally developed for the military as “transparent armor,” PPG Industries refined the technology for the optical

industry in 2002 and named it *Trivex*, due to its three main performance properties: superior optics, ultra-lightweight and extreme strength. The lens’s superior clarity is a product of its Abbe value. *Trivex* material has an Abbe value of 43-45, compared to polycarbonate at 29-31 and high index at 32-41. *Trivex*’s light weight is due to the material’s specific gravity. *Trivex* was engineered to be the lightest material, with a specific gravity of 1.11g/cm³. Lastly, lenses made with *Trivex* material can pass some of the optical industry’s highest standards for impact resistance,ⁱ and able to withstand the demands of kids’ active lifestyles

These features make *Trivex* truly unique, as it provides the best balance of performance properties, especially critical to meet the needs of kids’ everyday lives, specifically:

- For kids tackling schoolwork, vision acuity is critical. *Trivex* material provides the optical quality that optimizes corrective prescriptions and helps to reduce eyestrain.
- Lenses made with *Trivex* material are ultra-light for ultimate comfort, yet they are strong enough to meet the demands of kids’ lives, including protecting their eyes by blocking 100% of harmful UV rays.
- With so much learning taking place virtually this year, there’s an increased use of digital devices and screens in schools and at home. *Trivex* lenses are also available with blue light blocking technology to help protect kids’ eyes from harmful blue light indoors and out.
- *Trivex* material is available in many lens designs, coatings, treatments and sun options that may be beneficial for kids, including finished single vision, anti-reflective (AR) coatings, photochromic and polarized lenses. And, *Trivex* material is a perfect fit for all frame designs, so kids can personalize their eyeglasses to match their look.



In fact, when PPG surveyed parents about their perspectives on options for kids’ lenses, three out of four parents agreed that it is important their child’s eyeglasses are made with the most advanced lens technology, and half felt that a combination of lens attributes (clearest vision, thinness, lightweight, impact resistance and UV protection) was the most important.ⁱⁱ

ⁱ Impact resistant lenses are neither shatterproof nor unbreakable. Coatings may alter the impact resistance of any lens material.

ⁱⁱ Online survey conducted on behalf of PPG Industries from March 1-5, 2012 by Lightspeed among a nationally representative sample of 500 U.S. adults ages 18+.