

Background

Blue Blocker lenses are widely adopted in dentistry where light-activated dental materials and dental LED curing lights are extensively used.

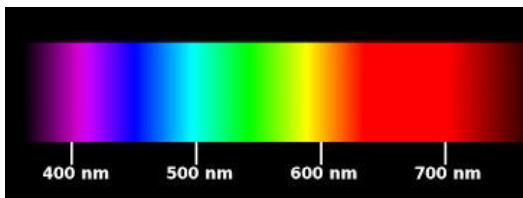
These materials deliver intense blue light in the 400–500 nm range. The peak wavelength is approximately 460 nm which is used to cure dental monomers. **Light of this intensity causes discomfort.**

Blue Blocker tints have been developed to address this problem absorbing light from this wavelength range and intensity.

Blue Blocker tints are effective, non-invasive, have no side effects and are inexpensive.

They can be used in other industries and settings as well to help preserve healthy sight.

How do Blue Blockers Work?



Blue Blocker lenses have excellent blue light absorbing properties.

Blue light has a wavelength of approximately 475 nm and green light is about 510 nm. The spectra to the left, shows the absorbance of light by the Blue Blocker tint.

The Blue Blocker lens absorbs very strongly in the wavelength range up to 550 nm area of the spectrum where practically all blue light is blocked.

Blue Blocker tints absorb the green and blue light and then reflect the rest of the spectrum which is why we see the red and yellow in a Blue Blocker tint; giving the resultant orange lens colour.



Blue Blocker Tint Density

Measurement of tint density determines a density of 78% absorption is required to ensure the effective absorption of blue light.

Lens Material

Rx Safety typically manufactures Blue Blocker treatments for 1.50 (CR39). Having said that, Blue Blocker tint has also been applied to polycarbonate (1.59) and Trivex (1.53) lenses.

What We Do

Specialty optics

Prescription safety eyewear

Prescription dive masks & goggles

Leaded X-ray protection glasses

Prescription glass

Specialty tinting

Contact Our Team

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Lens Designs

Rx Safety produces Blue Blocker treatments in the following lens designs:

- Plano (unpowered lenses)
- Single vision
- Bifocal
- Progressive

Blue Blocker vs Blue Light Filtering Lenses

Blue Blocker tint should not be confused with the Blue Light Multicoat treatment offered by some manufacturers to filter blue light emitted by computer screens and devices. Blue Blocker tint is intended for an entirely different application where blocking out of light in the visible spectra below 550nm is required.

How to order

It's easy to do business with us even if you don't have an account.

1. Fill out your lens order using your own script pad or use ours at: <https://rxsafety.com.au/order-forms/>
2. Email or fax your order to our team
Email: ebolto@rxsafety.com.au
Fax: 1800 111 461

We accept credit card payment (VISA or MasterCard) or payment via EFT.

Find out more

For the full product range, catalogue and further information please visit rxsafety.com.au or contact Rx Safety's friendly team who are always happy to help.