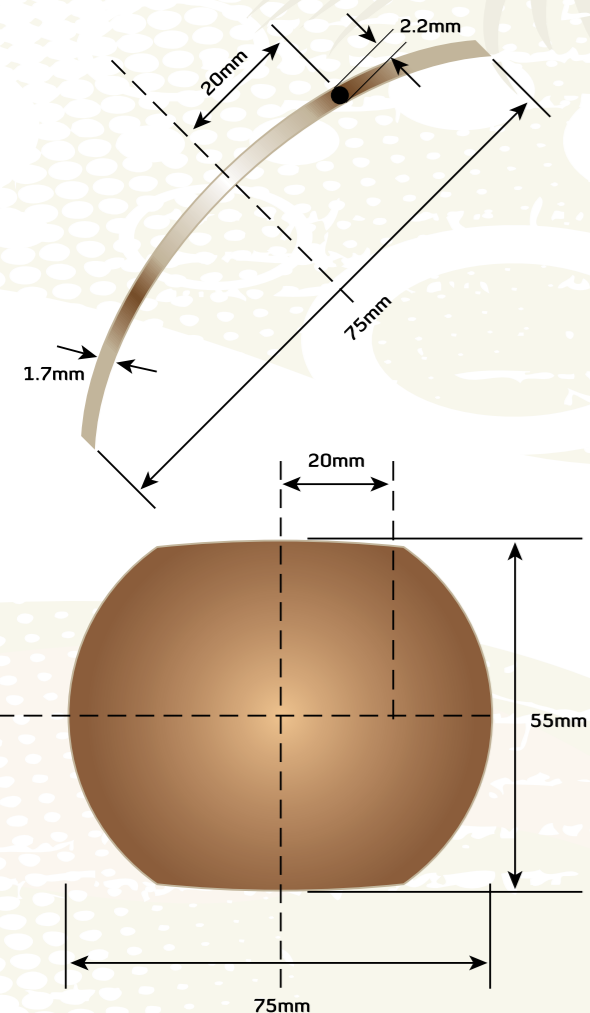


Blueye Polarized Sunglasses

Blueye Eyewear has designed our new range of Polarized sunglasses with the sporting and leisure enthusiasts at heart. Blueye again has designed sunglasses that not only look stylish and fashionable, but are there to be used by all active people.

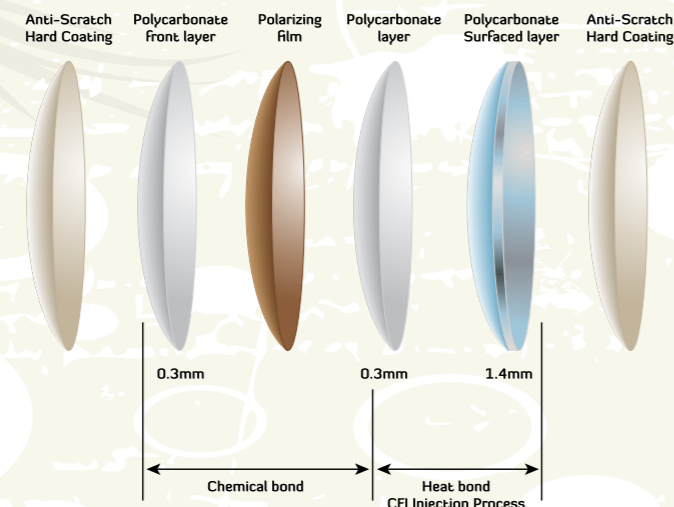
Blueye Polarized lenses are made from Polycarbonate (PC). Polycarbonate material is the best impact-resistant lens material available to protect your eyes. Blueye PC Polarized Lenses are 1.8mm – 2.2mm thick. Depending on the frame style that you choose, the thicker the lens the better the impact-resistance. Blueye lenses are decentred. This means that the lens is thicker in the middle of the lens and gets gradually thinner towards the ends. This allows for true visual clarity with no distortion.



Injection Molded PC Polarized Lenses

Blueye PC Polarized Lenses are made by the injection molded process. This process involves inserting Polycarbonate Polarized Lens sheet and polycarbonate resin into a mould by heat solvent injection. The Polarizing films are covered and guarded by the PC lens sheets and the function of polarization is kept unchanged even if the lens is inserted into a frame. Injection molded PC polarized lenses are the only PC Polarized Lenses that can be decentred.

Construction of an Injection PC Polarized Lens



Blueye Polarized Lens colours and Light Transmissions

Visible Light:

Visible light is that portion of the light spectrum which the eye perceives as colour. The retina of the eye absorbs visible light. Excessive amounts of visible light are irritating to unprotected eyes.

Blue Light:

Blue Light is visible light in the blue portion of the colour spectrum. The intense glare of light reflecting off snow or water contains blue light.

Blueye uses 4 main Polarized Lens colours.

These are Smoke, Bronze, Lotus and Yellow. Smoke lenses have a visible light transmission of 12% Bronze lenses have a visible light transmission of 12% Lotus lenses have a visible light transmission of 12% Yellow lenses have a visible light transmission of 30%

Visible Light Transmission

Visible light transmission is the amount of light that gets through the lens. Usually the darker the lens tint, the less visible light penetrates the lens. Lens colours have nothing to do with UV Protection. The level of UV protection is determined by the lens material and the UV-absorbing lens coatings added to the lens. The lens category on the sunglass is determined by the visible light transmission.

Lens Coatings

Flash Mirror and Anti reflective coatings are also available on some models of the Polarized range to eliminate back light.

Blueye Polarized Lens Colours

Smoke (Grey) Lenses are PC Polarized Lenses ideal for everyday wearing. They are the most popular general living colour lens that offers the wearer a true natural colour of the environment. Smoke lenses reduce light intensity without altering the colour of objects. They work well for both Boaters and Fishermen. Smoke lenses enhance dark fish and are most suitable for deep water fishing.

Bronze (Brown) Lenses are PC Polarized Lenses that enhance visual contrast - especially effective for filtering scattered Blue Light found in hazy, foggy or low light conditions. They improve depth perception and provide a warm appearance to colours. Bronze lenses work well for skiing, boating, driving, fishing and general use. They will aid the snow boarder or snow skier in observing the changing contours and textures of the snow's surface. Bronze lenses when fishing are most suitable when the bottom of the surface is grassy and weedy.

Lotus (Light Rose) Lenses are PC Polarized Lenses that are similar to Bronze. They both have the same qualities - effectively filtering scattered Blue light and improving contrast. Lotus lenses work well for skiing, fishing, boating and for general use. People find Lotus lenses soothing and comfortable over long wearing periods. They are fantastic for hang gliding where cloud definition is excellent. They allow for easy spotting of thermal wind currents too. Lotus lenses are excellent in overcast conditions when snow skiing or snow boarding.

Yellow Lenses are PC Polarized Lenses that block nearly all Blue Light for superior contrast. They enhance depth perception, however they do distort colours. Yellow lenses are very popular with hunters and shooters. They are the most effective lens in low light or highly overcast situations. They are also very popular for fishing, skiing, boating and general use. When fishing, Yellow lenses accentuate sandy bottoms in shallow water.

Lens Curvature

Blueye PC Polarized Lenses are either 8 Base or 10 Base Toric curvature. Blueye uses 8 Base to 10 Base curvature lenses as they create more protection around the eye. These lenses have far greater curvature and allow the sunglass frame to wrap around the face. With greater wrap, this obviously protects the eyes better from wind, dust and debris.

Spherical Lenses

6 Base and 8 Base lenses are spherical lenses meaning they have the same vertical and horizontal curvature through both planes.

Toric Lenses

10 Base lenses are Toric lenses, meaning they have a different curvature through the vertical and horizontal planes.

Blueye Sunglass Frames

Blueye uses Grilamide TR90 frame materials. Grilamide is a transparent Polyamide with fantastic qualities which are perfect for making sunglass frames that are tough, durable and stylish. Grilamide's exceptional characteristics include high chemical and stress crack resistance combined with excellent transparency. The main features of Grilamide TR are:

High Transparency
Good Chemical resistance
Low Density
Good Flexural bending strength
High heat distortion temperature

Standards

Blueye Sunglasses Exceed AS/NZS1067:2003; EN 1836:2550; ANSI Z80.3

Blueye Polycarbonate lenses meet the requirements relating to protection against high speed particles for sunglasses from standard EN166:1995 and high velocity test from ANSI Z87.1

Blueye Goggle lenses have been tested by the University of New South Wales for medium impact resistance and meet the requirements of AS 1337-1992 "Eye protectors for industrial applications"

Blueye in house testing on their goggles used a 12g Shotgun. Premium factory loaded Winchester Super Ranger cartridges containing 4 shot were fired at the goggles.

Results as follows:-

1. Fired at from 40 metres - frame totally unmarked, lens had slight indentation
2. Fired at from 25 metres - frame marked slightly, visible indentation of the lens
3. Fired at from 15 metres - frame marked slightly, lens cracked in centre only

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eyewear

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ph^m powerhouse museum
science + design



BLU EYE
eyewear

Extreme Sports



Chill

Frame: TR90 Grilamide ultra tough frame.
Built-in Non-Slip Rubber Temple Tips

Frame Options:
A. Matte Black – Rubber Finish
B. Gloss Black
C. Tortoiseshell

Lens: Shatterproof Polycarbonate decentred

Lens Options:
1. Smoke Lens with Anti-fog Coating (Black Frames)
2. Lotus Lens with Anti-fog Coating (Matte Black Frame)
3. Flash Bronze Lens (Gloss Black Frame)
4. Polarized Smoke **5.** Bronze **6.** Lotus
7. Yellow Lenses with Anti-reflective coating



Eddy

Frame: TR90 Grilamide ultra tough frame.
Built-in Non-Slip Rubber Temple Tips.

Frame Options:
A. Gloss Black
B. Tortoiseshell

Lens: Shatterproof Polycarbonate decentred

Lens Options:
1. Smoke Lens with Hard Coating
2. Bronze Lens with Hard Coating
3. Polarized Smoke **4.** Bronze **5.** Lotus Lenses with Silver Flash Mirror. Prescription ready.



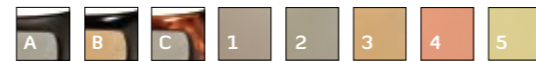
Loaded

Frame: TR90 Grilamide ultra tough frame.
Built-in Non-Slip Rubber Nose Piece

Frame Options:
A. Matte Black – Rubber Finish
B. Gloss Black
C. Tortoiseshell

Lens: Shatterproof Polycarbonate decentred

Lens Options:
1. Smoke Lens with Anti-fog Coating (Matte Black Frame only)
2. Polarized Smoke **3.** Bronze **4.** Lotus
5. Yellow Lenses with Anti-reflective coating. Prescription ready.



RPM

Frame: TR90 Grilamide ultra tough frame.
Matte Black – Rubber Finish

Lens: Shatterproof Polycarbonate decentred

Lens Options:
1. Smoke Lens
2. Clear Flash Mirror Lens



Riot

Frame: TR90 Grilamide ultra tough frame.
Built-in Non-Slip Rubber Nose Piece

Frame Options:
A. Gloss Black
B. Tortoiseshell

Lens: Shatterproof Polycarbonate decentred

Lens Options:
 - Bi-Focal Polarized Bronze lens +1.5, +2.0, +2.5 (Gloss Black Frame only)
1. Polarized Smoke **2.** Bronze **3.** Lotus
4. Yellow Lenses with Anti-reflective coating. Prescription ready.



Rodeo

Frame: TR90 Grilamide ultra tough frame.
Foam padding around eyepiece
Matte Black – Rubber Finish

Lens: Shatterproof Polycarbonate decentred

Lens Options:
1. Smoke Lens with Anti-fog Coating
2. Lotus Lens with Anti-fog Coating



Rush

Frame: PC Black Temples with Silicon tips.
Patented adjustable Silicon nose piece
Shatterproof Polycarbonate single piece shield decentred

Lens:

Lens Options:
1. Smoke Lens with G5 waterproof Anti-fog Coating
2. Blue Mirror Lens with Hard Coating



Zoo / Caged / Xtreme V6

Frame: Soft Santoprene, aerodynamically shaped to provide flexibility and comfort – sealing the eye area from wind, dust, hard particles, insects and spray. Vents within the frame allow air circulation to minimise fogging. Unrestricted Peripheral vision. Matte Black.

Lens: Shatterproof Polycarbonate decentred. Zoo, Caged and Xtreme V6 are supplied with any of the below 2 lenses of your choice.

Lens Options:
1. Smoke Lens with Anti-fog Coating
2. Yellow Lens with Anti-fog Coating
3. Clear Blue Lens with Anti-fog Coating
4. Lotus Lens with Anti-fog Coating
5. Orange Lens with Anti-fog Coating
6. Blue Mirror Lens with Hard Coating



Zoo



Caged



Xtreme V6

