

Bio Colors Fitting Guide



"Merging Art, Science and Innovation"

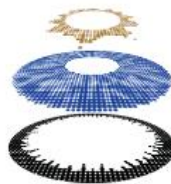


45 BLUE GRAY



46 CARIBBEAN BLUE

HOW DOES IT WORK?



Orion Vision Group is a contact lens company that specializes in custom contact lenses that are not available from the major contact lens manufacturers.

Among the products available from Orion Vision Group are custom printed contact lenses for the special needs of patients such as those with ocular injuries.



49 EVERGREEN



54 CHESTNUT



56 DARK COCOA

bioCOLORSTM
CUSTOM LENSES

bioColorsTM are custom made opaque lenses. With 21 colors and two different iris patterns, patients can select from a vast number of color combinations. These lenses are available in both custom sphere and custom toric prescriptions.

bioColorsTM prosthetic custom lenses are for patients with a wide variety of eye disorders and injuries. Our soft prosthetic lenses provide new hope in redefining discolored or misshaped pupils, amblyopia, and other ocular anomalies.



X Series



BROWN IRIS (BEFORE)



45 BLUE GRAY



46 CARIBBEAN BLUE



49 EVERGREEN



54 CHESTNUT



56 DARK COCOA

Bio Colors Fitting Guide Outline

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Materials and Parameters

BioColors are available in two materials and are yearly replacement lenses:

Methafilcon 55% and Polymacon 38%

Parameters:

Sphere- +20.00 to -20.00

Cylinder- up to -6.00

Axis- 1 to 180

Base Curve- 7.8 to 9.2

Diameter- 13.5 to 16.0

BioColor Designs

Iris Dimensions

12.25mm Diameter is the standard diameter size.

Also available 10.5, 11.25, 11.75, and 12.75. Please check with Orion about the available pupil sizes for these iris sizes before placing an order. NOT ALL PUPIL SIZES ARE AVAILABLE IN THESE IRIS SIZES.

Limbal Ring Dimensions

Adding a limbal ring to any size iris increases the diameter of the lens by .50 mm.

Clear Pupil Sizes

2.8, 3.3, 4.2, 5.0, 6.0 millimeters.

Black Pupil Sizes

3.0, 3.5, 4.0, 4.5, 5.0, 6.0 millimeters.

BioColor Designs Continued

BioColors custom lenses have four basic patterns:



Underprint



Iris



Starburst



Limbal

Base Curve and Diameter Selection

Diameter Selection

The lenses in the fitting set have a 14.3 diameter. A 14.5 diameter is used for average-sized corneas.

The standard Iris diameter is 12.25mm.

The fitting set lenses are 5.0mm clear, the CB lenses have a 6mm clear pupil.

Available diameter range is from 13.5mm to 16 mm.

Base Curve Selection

This chart can be used as a guide for base curve selection based on the lens diameter and average K reading.

Available base curves are 7.8 to 9.2 in 0.1 increments.

BASE CURVE SELECTION CHART			
Average K	Lens Diameter		
	13.5 & Smaller	14.0 & 14.5	15.0 & Larger
50	7.7	8.0	8.6
49		8.3	
49	8.0		
47			8.6
46			
45	8.3	8.9	
44			
43		8.6	
42	8.9		
41			
40		8.9	9.2
39			
38	8.6	9.5	

Cosmetic Fit

Iris color selection is the same for prosthetic or custom cosmetic colors used for cosmetic purposes only. Just as with an underprint, iris colors can be layered to create custom colors and designs. The standard “V” Series Fitting set is best suited for prosthetics and light colored eyes. The “X” series is needed for fitting darker eye colors with cosmetic colors. The “X” Series will change a brown eye to Blue, Green or any color in the “X” Series.

Iris colors may be “Piggy Backed” on an Orion “Color Diagnostic Tool” for virtually unlimited color combinations including Star Burst patterns and Limbal Rings. NOTE that special effects can be created with custom color layering. Example: a Star Burst pattern layered under an iris pattern with result in a very subtle Star Burst. A Limbal Ring placed under an iris pattern with result in a subtle Limbal Ring.

Example: A Caribbean Blue layered or “Piggy Backed” on top of a Baby Blue will appear different than a Baby Blue on top of a Caribbean Blue. This phenomenon is true of all color combinations. The potential color combinations are incredible with color layering. It is vital when ordering to convey the correct layering combination.

Cosmetic Fit Continued

Toric fitting

The clear toric lens in the fitting is used to see how the toric lens fits on the patients eye. An over refraction can be calculated when putting on this clear lens. The prescription of the clear lens is $-3.00-0.00 \times 180$.

Prosthetic Fit

Selecting the Underprint

All underprints block out the same amount of light so choose the color which matches the patients eye the best. Only one underprint is needed.

Cosmetic vs. Light Sensitive

If the patient has a blind eye the prosthetic lens is for (cosmetic) color matching only.

For patients who have vision in the eye and who are light sensitive, experience glare, or have an enlarged pupil, an underprint can be made with a clear pupil. On rare occasions, a tinted pupil can be added to a prosthetic lens.

Iris color(s) selection

Place the color or colors on the diagnostic tool on top of the underprint to find the color to match the other eye. Starburst and Limbal rings are optional.

The black pupil in the fitting set may be added last if necessary.

Prosthetic Fit Continued

Decentered Iris

On rare occasions, a patient may need a decentered iris with a pupil opening. It is recommended that the Iris diameter be at least 14.5 and then the iris can be decentered up to 2mm. The lens will also need to be prism ballast in order to keep the lens centered. Call 866-300-6257 for a consultation if you have more questions about decentering an iris.

Glossary

Underprint – Base print for Prosthetic cases to cover irregular irises or to help reduce enlarged pupils.

Starburst – Pupillary Frill surrounding pupil .The most common colors are Honey.
In rare cases, the starburst can be any color that is in the fitting set.

Limbal Ring – Dark ring surrounding the Iris. The limbal does not occlude light.
In rare cases, the limbal can be any color in the fitting set.

Total Light Blocking – A chemical process to occlude light. Total Light Blocking of a lens is a separate chemical process which is done on the back of an underprint to totally block out 100% of the light coming through the lens. The underprint by itself will block out around 85% of the light, which is usually best for most patients. Total Light Blocking is an addition charge and adds at least 4-5 days to production time of the lens.

BioColors FAQ's

Can the CB colors in the fitting set be used on an underprint?

The Color Blends colors are meant to stand on there own and they are 6mm clear pupils. In rare cases, a CB color may be placed on an underprint but if the pupil size ordered is smaller than 6mm, the starburst pattern will shrink to the size of the smaller pupil and therefore, will be more prominent.

How many colors an be put on any single lens?

Each color is a stamp so when doing multiple colors, we suggest no more than 4 or 5 stamps.

What is the X Series in the fitting sets?

The X Series are colored lenses used for people with dark eyes.

Will the opaque colors alone block out any light?

No, the colors by themselves will not block light transmission.



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Please call 866-300-6257 if you have any questions concerning our products

