



**TOG USA, Inc.** is a wholly-owned US marketing and distribution subsidiary of **THAI OPTICAL GROUP PUBLIC COMPANY LIMITED (TOG)**, the largest Thai manufacturer and distributor of ophthalmic lenses. TOG is one of the leading, global, **INDEPENDENT** lens manufacturers, focused on **INNOVATIVE** **COST-EFFECTIVE** and **RELIABLE** solutions.

## OVER 60 YEARS OF EXPERIENCE IN THE OPHTHALMIC LENS BUSINESS

### TOG USA, Inc. ("TOG USA") TERMS AND CONDITIONS

**TERMS:** All invoices in any calendar month shall be paid by the 10th of the next month. Accounts 30 days past due are assessed a 1.5% finance charge monthly. All past due accounts are subject to credit hold at the discretion of TOG USA.

**RETURNS AND REPLACEMENTS:** All products returns must have Authorization Number obtained through TOG USA. To get Authorization Number email [returns@togusainc.com](mailto:returns@togusainc.com) with a description and reason for return. Once approved please send back returns to: TOG USA INC.  
3016 W. Georgia St.  
Louisiana, MO 63353

All returns must be in original packaging and could be subject to a 25% restocking fee at the discretion of TOG USA.

**CLAIMS:** Claims for shipment errors or lost shipments are to be reported within 1 week of receipt or due date of receipt.

**SHIPPING:** FedEx is the primary shipping choice for TOG USA. Rates are available upon request.

#### PAYMENTS:

• **ACH & Wire Transfers:** All ACH payments will be made on the 10th of each month. To setup ACH & Wire Transfer please contact your TOG USA sales rep.

• **Checks:** All check to be sent to: TOG USA INC.  
PO Box 522  
Louisiana, MO 63353

*For more information on payments please contact your TOG USA sales rep or email [customerservice@togusainc.com](mailto:customerservice@togusainc.com)*

TOG<sup>+</sup> 1.50

TOG<sup>+</sup> 1.60

TOG<sup>+</sup> 1.67

TOG<sup>+</sup> Trivex<sup>®</sup>



# PRODUCT LIST 2023

## SEMI FINISHED LENSES

### PLASTIC & HIGH IMPACT TRIVEX LENSES

INDEX	COATING	DIA. (mm)	BASE
1.50	UC	75	1.00, 2.50, 4.00, 5.00, 6.00, 7.00, 8.00
	HC	70	9.00, 10.00
		65	11.00
1.50 Bluloc™	HC	75	1.00, 2.50, 4.00, 5.00, 6.00, 7.00
		70	8.00, 9.00
		65	10.00, 11.00
1.50 Transitions™ Gen 8™ (Gray/Brown)	HC	72	0.50, 2.25, 4.25, 5.25, 6.25, 8.25
1.53 Trivex® Thick	HC	70	0.50, 1.00, 2.00, 3.00, 4.00, 5.00, 6.00, 8.00
1.53 Trivex®	UC	75 70	2.50, 4.00, 5.00, 6.00, 7.00, 8.00 1.00
	HC		
1.53 Trivex® Bluloc™	HC		
1.53 Trivex® Transitions™ Gen 8™ (Gray/Brown)	HC		
<i>*Available in 75mm only</i>			
1.53 Trivex® Transitions™ XTRActive New Gen (Gray/Brown)	HC	78 74	2.00, 3.50, 4.25, 5.25, 6.25, 7.25, 8.75 0.50, 1.00
1.53 Trivex® Transitions™ XTRActive Polarized (Gray/Brown)	HC		
1.59 Polycarbonate	HC	75	0.50, 1.50, 2.50, 3.50, 4.50, 5.50, 6.50, 7.50, 8.50
1.59 Polycarbonate Transitions™ Gen 8™ (Gray/Brown)	HC	79 74	1.50, 3.25, 4.25, 4.75, 5.50, 7.00 7.50, 8.50
1.59 Polycarbonate Transitions™ XTRActive New Gen (Gray/Brown)	HC		
1.59 Polycarbonate Transitions™ XTRActive Polarized	HC		

# PRODUCT LIST 2023

## SEMI FINISHED LENSES

### HIGH INDEX LENSES

INDEX	COATING	DIA. (mm)	BASE
1.60	UC	75	1.00, 2.50, 4.00, 5.00, 6.00, 7.00, 8.00
	HC	70	9.00
1.60 Transitions™ Gen 8™ (Gray/Brown)	HC	65	10.00, 11.00
		80	1.75, 2.75, 3.75, 4.75, 6.00, 6.75
1.60 Transitions™ XTRActive New Gen (Gray/Brown)	HC	76	8.50
1.67 (MR-10)	UC	75	1.00, 2.50, 4.00, 5.00, 6.00, 7.00, 8.00
	HC	70	9.00
1.67 Bluloc™	HC	65	10.00, 11.00
1.67 Transitions™ Gen 8™ (Gray/Brown)	HC		
1.67 base 0.50	UC	81	6.75, 8.00
	HC	80	1.75, 2.75, 3.75, 4.75, 6.00
1.67 Transitions™ XTRActive New Gen (Gray/Brown)	HC		
1.67 Transitions™ XTRActive Polarized (Gray/Brown)	HC	81	6.75, 8.50
		80	1.75, 2.75, 3.75, 4.75, 6.00
1.74 LeafECO®	UC	75	3.50, 5.00
	HC	70	0.50, 1.50, 2.25, 6.75, 8.50, 10.25
1.74 LeafECO® Bluloc™	HC	65	11.50, 12.50, 13.50
1.74 LeafECO® Transitions™ Gen 8™ (Gray/Brown)	HC	60	14.50, 15.50, 16.50

## FINISHED LENSES

### PLASTIC & HIGH IMPACT TRIVEX LENSES

INDEX	COATING	DIA. (mm)	SPH.	CYL.
1.53 Trivex® FSV Super AR	ZSX	70	0.00 to -8.00	0.00 to -2.00
		65	+0.25 to +6.00	0.00 to -2.00
1.53 Trivex® Bluloc™ FSV Super AR	ZSX	70	0.00 to -6.00	0.00 to -2.00
		65	+0.25 to +3.00	0.00 to -2.00
1.59 Polycarbonate	ZSX	70	0.00 to -6.00	0.00 to -2.00
		65	+0.25 to +4.00	0.00 to -2.00



bluloc™

YOUR EVERYDAY PROTECTIVE LENS

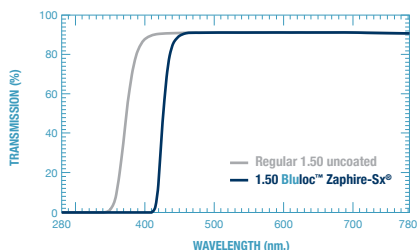
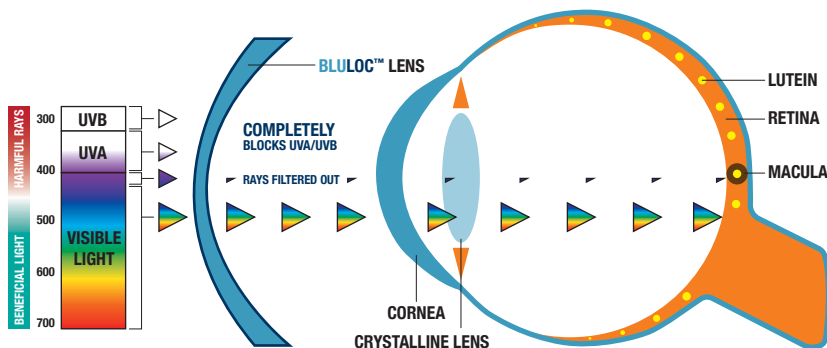
SCAN TO VIDEO



TOG  
TOG USA INC



To better protect your eyes and vision into the future, make the smartest choice for your corrective lens material - **Bluloc™**.



TRANSMITTANCE OF **BLULOC™** LENS MEASURING 2mm IN CENTER THICKNESS

## RAY ABSORPTION BY AN ADULT EYE WITH **BLULOC™**

**COMPLETELY BLOCKS HARMFUL UVA/UVB**

**95%**

**HARMFUL RAYS FILTERED OUT**

**100% BENEFICIAL LIGHT PASSES THROUGH**

## Why are UV & HEV lights damaging to the eyes?

Ever-increasing time spent on digital devices can lead to digital eyestrain, and its following detrimental effects:



### Short-term

#### DIGITAL EYESTRAIN



DRY EYES



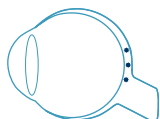
BLURRED VISION



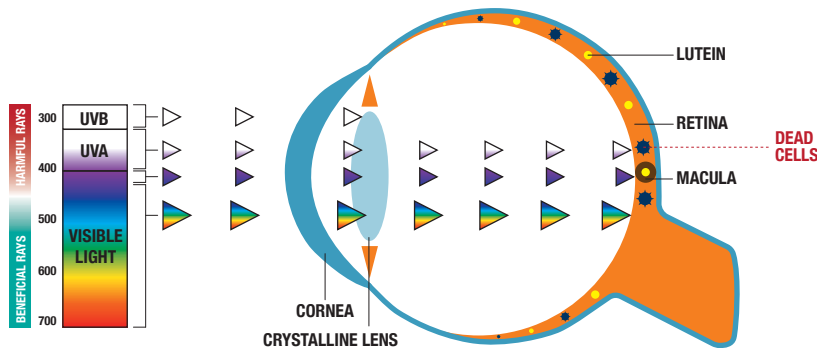
HEADACHES

### Long-term

• = DEAD CELLS



RETINAL DAMAGE



## RAY ABSORPTION BY AN ADULT EYE WITHOUT **BLULOC™**

### How does this happen?

- Digital screens expose the eyes to high-energy visible light (HEV) within the 400 to 500nm wavelength, as well as the sun and LED light.
- From 400 to 420nm HEV light is the most harmful, and reduces lutein within the eye, which is known as the eye vitamin.
- Repeated and prolonged exposure to harmful HEV light, can contribute to retinal damage.

## Live Visibly Better With **Bluloc™**

For Everyone & All Occasions

### Availability

#### BASIC MATERIALS



#### ADVANCED MATERIALS



#### ECO MATERIALS



**TOG USA, Inc.** 3016 W. Georgia St., Louisiana, MO 63353  
Phone number: (+1) 866 851 0743 Fax number: (+1) 630 524 9095





**TOG****Trivex<sup>®</sup>**

## TOG Trivex<sup>®</sup> for maximum lens performance

A perfect fit for children  
Adaptable to patient prescriptions  
Compatible with all lifestyles  
Ideal as safety lenses

Strong	★★★★★
Light	★★★★★
Clear	★★★★★
Thin	★★★★★
Impact resistant	★★★★★
Chemical resistant	★★★★★

**TOG**  
TOG USA, INC.



TOG Trivex® is the strongest and lightest lens manufactured by TOG, made with the Trivex® material from PPG. Outperforming other lenses, this durable material satisfies wearers by offering clear optical quality, lightweight comfort, impressive strength and assuring protection.



Refractive Index

1.53



Abbe Value

43



Density

1.11 g/cm³



UVA & UVB Protection

100%



## Ultra-Strong

- 6x stronger than 1.50 ADC lenses (Gardner impact test: 700 vs 31 in-lb)
- Excellent chemical resistance
- Extra protection for eye safety
- Surpasses international standards- FDA Drop Ball, CEN & ANSI Z87.1 Tests (1.3 mm)
- Perfect for drilling rimless frames

## Ultra-Light

- Incredible wearer comfort
- Up to 19% lighter than other lenses

## Ultra-Clear

- Sharp visual acuity
- 30% clearer vision than polycarbonate (Abbe value: 43 vs 30)

**6X  
STRONGER**



**PASSES  
ANSI Z87.1 TEST**

**19%  
LIGHTER**

**30%  
CLEARER**



**PASSES  
CHEMICAL TEST**

### Available Products:

#### Semi-Finished Lens:

- Single Vision Lens (Uncoated / Hardcoated)

#### Finished Lens:

- Single Vision Lens (Hard Coated / Hard Multi-coated)

### TOG Trivex® is suitable for:

- Active Children (Lightweight / Impact Resistance)
- Workers (Impact / Chemical Resistance)
- Rimless Lens Lovers (Tensile Strength)
- Senior / Elderly People (Lightweight)
- High Power Prescriptions (Lens Thinness)



LIGHT  
UNDER  
CONTROL.™

Transitions™  
Signature® GEN8™

[transitions.com](https://transitions.com)

Transitions and Transitions Signature are registered trademarks and the Transitions logo is a trademark of Transitions Optical, Inc. used under license by Transitions Optical Ltd. GEN 8 and Light Under Control are trademarks of Transitions Optical Limited. ©2022 Transitions Optical Limited. Photochromic performance is influenced by temperature, UV exposure and lens material. Lens colors simulated for demonstration purposes. Ask your eye care professional for a demonstration in order to experience Transitions lenses for yourself. Frames by RAY-BAN® - Lenses Transitions® Gray.

**TOG USA, Inc.**  
3016 W. Georgia St., Louisiana, MO 63353  
**Phone number:** (+1) 866 851 0743  
**Fax number:** (+1) 630 524 9095

Transitions® Signature® Gen8™  
is now available and supplied by TOG.

**TOG**  
TOG USA INC



# XTRACTIVE®

## NEW GENERATION

BEST XTRA DARKNESS

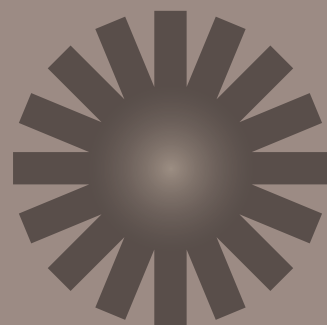
BEST XTRA LIGHT  
PROTECTION



Frames by Vogue Eyewear



NEW



# Transitions™

Light  
Intelligent  
Lenses

The darkest in hot temperatures, in the car and offering the best overall blue light protection across light situations\* among clear to extra dark photochromic lenses. \*Protection from harmful blue light (380nm-460nm) among polycarbonate and 1.5 grey lenses: blocking (i) up to 34% indoors at 23°C, (ii) up to 64% behind the windshield (iii) up to 90% outdoors at 23°C and (iv) up to 83% outdoors at 35°C. Transitions and XTRActive are registered trademarks, and the Transitions logo is a trademark of Transitions Optical, Inc., used under license by Transitions Optical Limited.  
© 2021 Transitions Optical Ltd. Photochromic performance is influenced by temperature, UV exposure and lens material.

#### TOG USA, Inc.

3016 W. Georgia St., Louisiana, MO 63353

Phone number: (+1) 866 851 0743

Fax number: (+1) 630 524 9095

The new Transitions® XTRActive®  
is now available and supplied by TOG.



**Do your part in  
saving the planet**



**Eco-friendly  
ophthalmic lens**

**82% bio-based  
content**

**More than 5x fewer  
CO<sub>2</sub> emissions**



**DoGreen™**

**TOG**  
TOG USA INC





# What is LeafECO® ?

LeafECO®, by TOG, is an environmentally-friendly ophthalmic lens, made from 82% bio-based content. In conjunction with Mitsui Chemical, Inc., TOG manufactures LeafECO® lenses with the DoGreen™ bio-based monomer. The LeafECO® lens material uses palm oil from certified palm oil trees, in Thailand, rather than petroleum, and provides exactly the same lens specifications as ordinary plastic lenses.



Living an eco lifestyle can help save the planet in the fight against global warming, by reducing CO<sub>2</sub> emissions. 'LeafECO®' lenses reduce CO<sub>2</sub> emissions by 326 kg in production.



Having a clear view of the world is important to you, but so too is a greener planet is important for everyone. LeafECO® lenses makes a visible difference.

## LeafECO® 1.74 Specifications:

**Availability:** Clear Semi-finished Lens, Freeform Surfacing, Uncoated, Non-tintable

Nominal Base Curve	True Curve (RI 1.53)		Radius (mm.)		Diameter (mm.)	Center Thickness (mm.)	Edge Thickness (mm.)
	Front Curve	Back Curve	Front Curve	Back Curve			
	Sph. (Cyl: 0.00)	Sph. (Cyl: 0.00)					
0.50	0.40	13.29	1827.59	55.67	70	8.50	20.50
1.50	1.49	13.29	495.33	55.67	70	7.50	18.60
2.25	2.28	11.64	325.15	63.55	70	7.00	15.40
3.50	3.56	9.84	207.84	75.18	75	6.10	12.70
5.00	5.07	6.81	146.01	108.61	75	6.30	8.10
6.75	6.79	7.93	109.05	93.31	70	6.00	7.00
8.50	8.52	8.82	86.89	83.86	70	7.00	7.20
10.25	10.28	9.83	72.01	75.28	70	7.50	7.10
11.50	11.59	9.55	63.86	77.49	65	8.60	7.00
12.50	12.59	9.55	58.76	77.49	65	9.50	6.80
13.50	13.59	8.80	54.47	84.13	65	10.70	6.80
14.50	14.58	8.78	50.77	84.26	60	10.40	6.20
15.50	15.60	8.78	47.45	84.26	60	11.30	6.20
16.50	16.62	7.89	44.54	93.80	60	13.00	6.20
Tolerance	±0.06	±0.06			+2.0/-1.0	+2.0/-0	+2.0/-0

**Physical Properties:** Refractive Index: 1.74, Abbe Value: 32.4, Density: 1.31 g/cm<sup>3</sup>,  
Chemical Resistance: Alcohol, Acetone, Toluene, Dichloromethane, DMF  
UV Protection (400): 100%



**WE ARE THE INNOVATIVE, COST-EFFECTIVE AND RELIABLE INDEPENDENT LENS MANUFACTURER**

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**[www.togusainc.com](http://www.togusainc.com)**

