MORE CHOICES:

AGUIDE TO EVERYDAY AND SUNWEAR LENSES





MORE CHOICES:

EVERYDAY ADAPTIVE EYEWEAR AND SUNWEAR:

For total vision care, eyecare professionals recommend that patients have both.

WHY TWO PAIRS?

Your eyes are subjected to many different types of light. Some of it can be uncomfortable for your eyes. The truth is, no single pair of lenses can provide the best vision in every circumstance.

From indoors to outdoors, work to play, changing weather and times of day — variable lighting conditions can impact your visual experience, and there is no one eyewear solution that is ideal for *every* situation.

This booklet will show you several lens options for everyday adaptive eyewear and polarized sunwear. For your **EVERYDAY** eyewear,

Transitions* Signature* Gen 8TM
lenses provide a superior visual
experience by being more
responsive to UV light in all
conditions. Transitions* XTRActive*
new generation lenses are darker
and always active for extra
protection. New Transitions*

XTRActive* PolarizedTenses
offer extra darkness and dynamic
polarization outdoors.

For **SUNWEAR**, *NuPolar*® lenses offer maximum darkness and are fully polarized to block blinding glare. *Transitions® Drivewear®* sun lenses are the only polarized adaptive lenses designed specifically for the driving task. *Transitions Drivewear* sun lenses optimize color and darkness in varying daylight conditions, even behind the windshield.

EVERYDAY LIGHT INTELLIGENT LENSES



Most popular light intelligent lenses -fully clear indoors with just the right amount of tint outdoors

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XTRACTIVE® NEW GENERATION

Extra darkness and extra light protection.

Page 6

XTRACTIVE® POLARIZED

Combining the benefits of light intelligent lenses and dynamic polarization.

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POLARIZED SUNWEAR LENSES



Light intelligent polarized sunwear— Best option for driving in varying daylight conditions

Page 12



Polarized sunwear lenses that offer maximum polarization in many colors and treatments

Page 14



Outdoors in Daylight // Dark

Indoors & Nighttime // Clear

Darkens outdoors in seconds

Returns to clear indoors faster than ever

Notes for the eyecare professional:

Best option for first-time *Transitions®* lenses wearer

For patients who want a fully clear lens indoors and at night

Available in gray and brown, as well as Style Colors amethyst (purple) and sapphire (blue)

Block 100% UVA and UVB rays

Transitions® Signature® gray & brown lenses block at least 20% of harmful blue light indoors, approximately 87% outdoors*

Transitions® Signature® sapphire & amethyst lenses block at least 75% of harmful blue light outdoors*

Ask your lens supplier for an up-to-date list of available styles and materials.

* "Harmful blue light" is calculated between 380nm and 460nm.

See Transitions Optical Inc.'s 2021 publication *Light Under Control - UV Protection + Harmful Blue Light Filtering* for more details.





Outdoors in Daylight // Extra Dark

Indoors & Nighttime // Clear with a hint of protective tint

Extra dark outdoors to protect your eyes from bright sun, even in the hottest temperatures

Extra protection from intense light indoors and outdoors, even in the car

Notes for the eyecare professional:

Transitions XTRActive new generation lenses deliver improved darkness and faster to fadeback than the previous generation.

These lenses are a good option for experienced Transitions wearers who want darker activation outdoors.

Best for wearers who are very light sensitive or frequently exposed to bright light.

Available in gray and brown

Block 100% UVA and UVB rays

Block approx. 34% of blue light indoors, up to 90% outdoors*

Ask your lens supplier for an up-to-date list of available styles and materials.

* "Harmful blue light" is calculated between 380nm and 460nm. Based on polycarbonate grey lenses tested outdoors at 23C. See Transitions Optical Inc.'s 2021 publication *Light Under Control - UV Protection + Harmful Blue Light Filtering* for more details.





Outdoors in Daylight // Extra dark with dynamic polarization Indoors & Nighttime // Clear with a hint of protective tint

Polarization adjusts according to the level of glare outdoors

Sharper vision, vivid colors and more comfort outdoors*

Notes for the eyecare professional:

The best for wearers who are frequently exposed to bright light and reflective glare

For patients who want an everyday lens that polarizes outdoors

Transitions® XTRActive® Polarized $^{\text{m}}$ lenses achieve a polarization efficiency of up to 90%**

Available in gray only.

Block 100% UVA and UVB rays.

Block up to 35% of harmful blue light indoors and up to 90% of harmful blue light outdoors***

Darkens moderately in the car.

Ask your lens supplier for an up-to-date list of available styles and materials.

- * EcoOptics Limited Prof. Nicholas Roberts, Quantitative study evaluating the visual benefits of the polarization properties of lenses compared to similar non-polarized lenses, 2019/2020.
- ** Based on tests across materials on grey lenses @ 23°C, using ISO 12312-1 standard
- ***Based on tests across materials on grey lenses @ 23°C. Harmful blue light" is calculated between 380nm and 460nm. See Transitions Optical Inc.'s 2021 publication *Light Under Control UV Protection + Harmful Blue Light Filtering* for more details.



FREQUENTLY ASKED QUESTIONS ABOUT **SUNWEAR LENSES**

What is the difference between everyday and sunwear lenses?

Everyday lenses can be worn indoors and at night, as well as outside. Sunwear is meant to be worn only outdoors in the day. It is recommended that each patient choose a pair of everyday lenses as well as a sunwear lenses, if possible.

What are polarized sunwear lenses?

Polarized sunwear lenses contain an embedded film that filters out polarized sunlight reflecting from horizontal surfaces. This film blocks blinding glare, making it easier to see what's in front of you.

Why is it called "blinding" glare?

It is called "blinding glare" because it significantly reduces your vision in the moment. It can be dangerous, especially when continuous, unimpaired vision is crucial, such as when driving.

How do polarized sunwear lenses differ from the dynamic polarization offered by *Transitions® XTRActive® Polarized™* lenses?

Each lens type has its situational advantages.

Transitions XTRActive Polarized lenses are everyday lenses, meaning they are almost completely clear indoors and at night. The level of polarization is generally less than a polarized sunwear lens in the car, because its activation is dependent on the amount of UV light. Patients who want full polarization in the car are advised to wear a polarized sunwear lens while driving.

Transitions® Drivewear® are fully polarized sunwear lenses for daytime driving & outdoor activities, with three color states optimized for changing daylight conditions. Blinding glare is blocked at all times. Not intended for nighttime or indoor use.

NuPolar® polarized sunwear lenses provide maximum darkness and glare blocking at all times. Not intended for nighttime or indoor use.



Blinding glare is caused by reflected light. The angle of reflection makes it hard to see what's directly ahead of you. Polarized sunwear lenses contain a film that blocks this glare. **Ask for a demonstration.**

Transitions Drivewear® LIGHT INTELLIGENT SUNWEAR LENSES

Outdoors in Overcast/Low Light // Olive green & polarized
Sunny Behind the Windshield // Copper & polarized
Outdoors in Daylight // Dark Brown & polarized

The color and darkness of *Transitions® Drivewear®* lenses change according to daylight conditions for better vision, behind the windshield and outdoors.

Blocks blinding glare in all types of daylight.

Provides the right amount of light for daytime driving, no matter the weather.

Notes for the eyecare professional:

Not to be worn for driving at night. Not advised for indoor use.

The best sunwear recommendation for commuters, professional drivers, or anyone who operates a vehicle during daylight hours.

Transitions Drivewear lenses contain a special Transitions technology: visible-light photochromics. This allows the lens to activate behind the windshield — even when no UV light is present.

Lenses block 100% UVA and UVB light.

Lenses block a minimum 80% of high energy blue light, blocks even more when activated by sunlight*

Conform to ANSI Z80.3 Standards for Traffic Signal Recognition

Ask your lens supplier for an up-do-date list of available styles and materials.

 Measured according to ISO 8980-3: 2013 and ISO 12311:2013 Blue light hazard function calculations. Light in the 380-500nm range of the electromagnetic spectrum is considered high energy blue light.





Outdoors in Daylight // Dark & polarized

Block high levels of glare to provide comfortable vision in bright sunlight to make outdoor activities more enjoyable

Reduce squinting and crows' feet

Make driving safer by blocking blinding glare

Noticeably crisper, sharper vision outdoors

Notes for the eyecare professional:

Block 100% UVA and UVB light

Conform to ANSI Z80.3 Standards for Traffic Signal Recognition

Blocks a minimum 80% of high energy blue light*

For blue-light concerned patients, advise that NuPolar Brown, NuPolar Gold Mirror, and NuPolar Gradient Brown-Brown lenses block the most blue light.

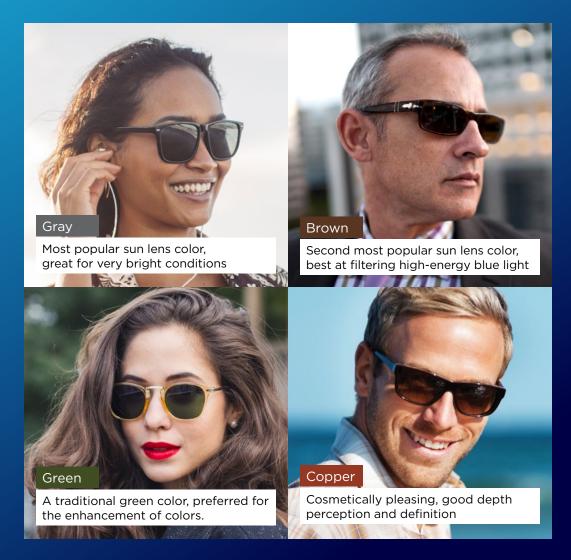
Sunwear lenses are not recommended for indoors or night use.

Ask your lens supplier for an up-do-date list of available styles and materials.

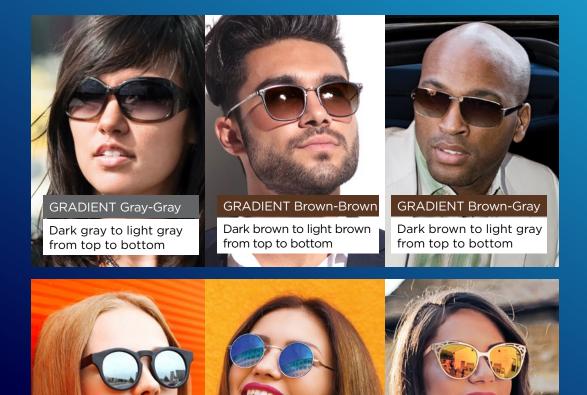
* Measured according to ISO 8980-3: 2013 and ISO 12311:2013 Blue light hazard function calculations. Light in the 380-500nm range of the electromagnetic spectrum is considered high energy blue light.



NUPOLAR® POLARIZED SUNWEAR LENSES



NuPolar® polarized sunwear lenses come in many lens colors and treatment options. All NuPolar® lenses block blinding sun glare outdoors and while driving. All NuPolar® lenses block 100% UV and over 80% of harmful blue light.



Ask your eyecare professional which colors are available for your prescription. Advanced customizations may also be available.

MIRROR Gray-Blue

mirrorcoat

Dark gray lens with blue

MIRROR Brown-Gold

Dark brown lens with

gold mirrorcoat

MIRROR Gray-Silver

mirrorcoat

Dark gray lens with silver

DIFFERENT TYPES OF GLARE

Blinding Glare

Eliminated by polarization





Disabling Glare

Eliminated by photochromics and polarization





Discomforting Glare

Eliminated by photochromics and polarization





Distracting Glare

Eliminated by clear or photochromic lenses with AR coating





Anti-reflective (AR) coating is strongly recommended for all everyday lenses. On sunwear lenses, patients can benefit from back-side AR coating.

ASK FOR A DEMONSTRATION





YOUNGER-TRANSITIONS
UV DEMONSTRATOR
Activate all of the different everyday
Transitions® lenses while indoors.

ECPs: Request from your lab or email marketing@youngeroptics.com



NuPolar[®]

polarized lenses

NUPOLAR LED GLARE DEMONSTRATOR Battery-operated unit creates bright glare indoors to show the glare-blocking power of polarized lenses to patients.

ECPs: Request from your lab or email marketing@youngeroptics.com

Transitions Drivewear®

TRANSITIONS DRIVEWEAR GLARE WHEEL Show patients how Transitions Drivewear polarized photochromic sun lenses cut glare and adjust color in different sunlight conditions.

ECPs: Request from marketing@youngeroptics.com







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For a complete list of materials and styles, refer to the availability charts provided by Transitions Optical and Younger Optics.

TransitionsPRO.com
YoungerOptics.com/Availability