



DuraVision® BlueProtect by ZEISS

The ZEISS Blue-Violet Light Blocking Solutions.

DuraVision® BlueProtect by ZEISS is a coating specially developed for people who spend a lot of their time indoors and are exposed to blue-violet light from LEDs as well as TV, computer or tablet screens.

In addition, DuraVision® BlueProtect comes with premium features of ZEISS coatings.

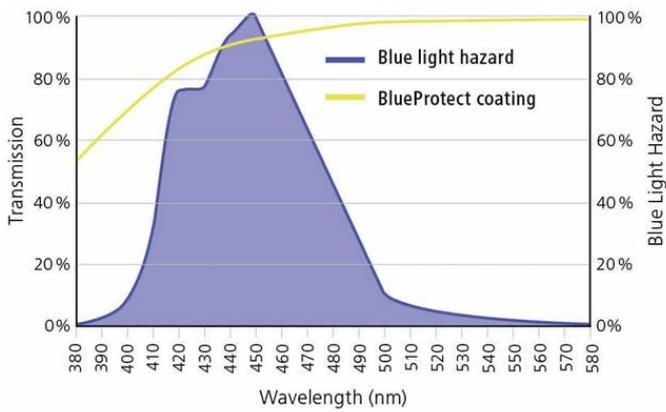
DuraVision® BlueProtect	BPI 15	Superior Hardness	Easy Care*
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On clear material versions, PhotoFusion and Transitions®**: 1.5/1.53/1.59/1.60/1.67/1.74

* Easy Care function: easy-to-clean, anti-static and scratch-resistant properties

**Transition is a registered trademark of Transitions Optical, Inc.

DuraVision® BlueProtect - the solution for indoor activities

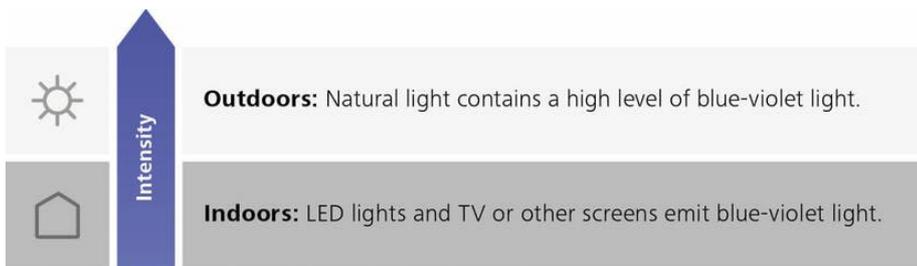


ZEISS DuraVision® BlueProtect reflects parts of the blue-violet light emitted by these sources, preventing light from entering the eye.

This ZEISS coating reduces the transmission in the spectrum of 380–455 nm (blue light hazard) to a BPL 15 while keeping the high transmission level above 460 nm.

Our exposure to blue-violet light may not always be the same.

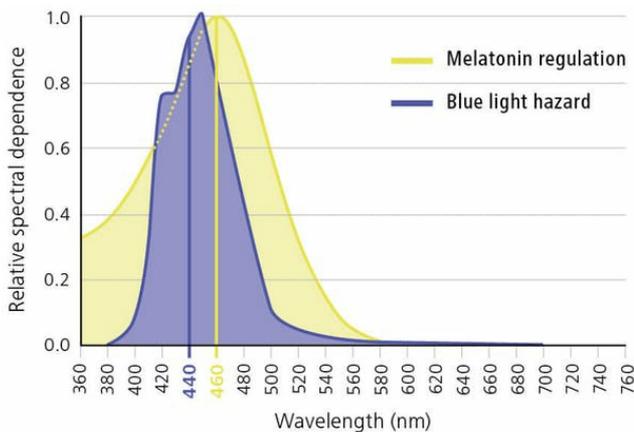
However, we must always enjoy comfortable vision.



Blue-violet light is everywhere, although its intensity varies greatly.

While a typical LCD computer monitor produces a brightness of 250 cd/m², a clear blue sky at midday is 32 times as bright. Direct sunlight can be thousands of times as bright.

The two sides of blue-violet light*



Pro	Contra
<p>Regulates circadian rhythm (day-night rhythm)</p> <p>There is a body of evidence to suggest that blue light in the spectrum between 400 and 520 nm with a maximum at 460 nm is important for the proper regulation of melatonin in the body, which influences circadian rhythms (day-night rhythm) and general well-being.</p>	<p>Increases risk of macular degeneration</p> <p>On the other hand, there is a body of evidence to suggest that long-term exposure to blue-violet light below 460 nm, with a maximum at 440 nm, may contribute to photochemical damage of the retina, increasing the risk of macular degeneration over time (known as the 'blue light hazard').</p>

Requirements in terms of blue-violet light blocking.

Exposure to harmful blue-violet light varies greatly indoors and outdoors. It is important to have adequate blocking of the blue-violet light depending on its intensity.

* For more information, please refer to the ZEISS White Paper for DuraVision® BlueProtect.

The benefits for the wearer

- ✓ Address consumers' health concerns with ZEISS blue-violet light blocking solutions.
- ✓ Offer a comprehensive portfolio that takes into account the different intensity levels of harmful blue-violet light in indoor and outdoor activities.
- ✓ Easy to understand with the Blue Protect Index (BPI).

The ZEISS Blue-Violet Light Blocking Portfolio - made to fit any situation of blue-violet light exposure.

ZEISS offers a comprehensive blue-violet light blocking portfolio that meets different consumer requirements for indoor and outdoor activities, filtering different amounts of blue-violet light depending on the activity.

> [Skylet®](#) and > [PhotoFusion](#) by ZEISS are tinted and self-tinting lenses that block different intensities of blue-violet light as well as offering 100% UV protection. A new addition has now been made to the portfolio: **DuraVision® BlueProtect by ZEISS**, a new coating to partially block blue-violet light; ideal for indoor activities.

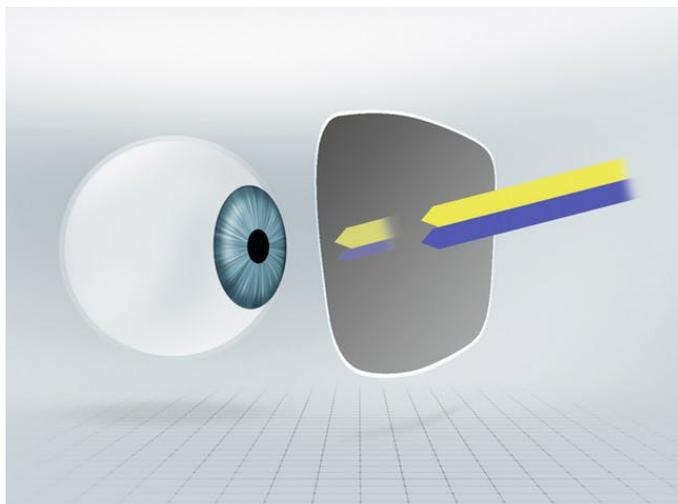
The ZEISS Blocking Portfolio

	Product		BPI	Reason to believe
Outdoor solutions 	Skylet®		100	ZEISS exclusive contrast-enhancing tints with 70/80/90% absorption level
Dynamic lifestyle solutions 	PhotoFusion ¹⁾	outdoors	90	Level of tint intensity up to 89% absorption (dark state)
		indoors	30	Harmful light absorbed by PhotoFusion technology
Indoor solutions 	DuraVision® BlueProtect New		15	Harmful light reflected by special protection coating system

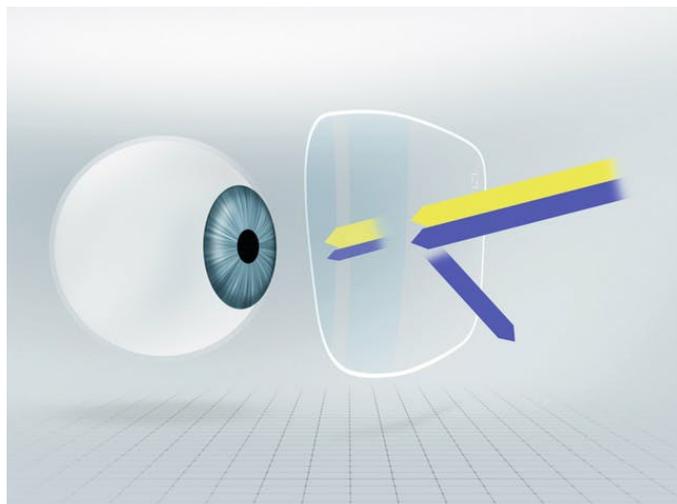
Level of harmful blue-violet light

BPI* –
the tool for a
recommendation
that fits

The ZEISS BlueProtect Index (BPI) facilitates the selection of the correct blue-light-blocker solution depending on the most common activities of the wearer, taking 100 as the maximum blocking provided by Skylet® tints.



Tinted or self-tinting lenses partially absorb blue-violet light



ZEISS DuraVision® BlueProtect partially reflects blue-violet light

* ZEISS exclusively developed the BPI to simplify the recommendation of an adequate blue-blocking solution depending on the wearer's activities.
For further information please refer to the ZEISS White Paper of DuraVision® BlueProtect.

ZEISS is one of the world's leading manufacturers of spectacle lenses, and is committed to delivering maximum precision and comfort. ZEISS designs and produces lenses, instruments and measurement systems, as well as retail concepts and technology services that continue to raise the bar in vision care.



Contact us to Get Started ZEISS Customer Service

+44 (0)121 356 5595

Email



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- Understanding Vision
- Health + Prevention
- Lifestyle + Fashion
- Driving + Mobility
- Sports + Leisure
- Work Life

Help me choose

- Distance + Reading Glasses
- Varifocal Lenses
- Sunglasses
- Working Glasses
- Sports Glasses
- Glasses for Children

Services

- My Vision Profile
- Online Vision Check

For Eye Care Professionals

- Instruments + Technologies
- ZEISS Spectacle Lenses
- ZEISS Cleaning Solutions

Lens Coatings
Contact Lenses
Lens Cleaning
At the Optician

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