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.

<table>
<thead>
<tr>
<th>DuraVision® BlueProtect</th>
<th>BPI 15</th>
<th>Superior Hardness</th>
<th>Easy Care*</th>
</tr>
</thead>
</table>

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.
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 BPI 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.

**Outdoors:** Natural light contains a high level of blue-violet light.

**Indoors:** LED lights and TV or other screens emit blue-violet light.

The two sides of blue-violet light*

**Pro**

- Regulates circadian rhythm (day-night rhythm)
  - 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.

**Contra**

- Increases risk of macular degeneration
  - 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’).

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.*
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

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

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.
NEW! True UV protection from all sides.

To offer patients true protection, ZEISS has developed an additional anti-reflective layer on the back of the lens, reducing the indirect light reflected into the eye and complementing the protection offered by ZEISS UVProtect Technology in all clear plastic lenses which blocks direct UV rays from the front.

More than 90% of UV radiation comes directly from the front. However, a minor part comes in indirectly from the sides and back. As some UV rays may be reflected onto the eye by the back surface of the lens, ZEISS antireflective coatings are designed to have low reflectance in the UV spectral range.

Back surface UV protection is now integrated as a standard feature into all premium ZEISS DuraVision coatings and the LotuTec coating.
Not all products, services or offers are approved or offered in every market and approved labelling and instructions may vary from one country to another. For country specific product information, see the appropriate country website.