

## TRANSITIONS® VI TECH NOTES – BROWN



### Introducing Transitions VI lenses

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With the introduction of Transitions VI, we're once again setting new standards of lens performance and providing unparalleled benefits to all wearers.

While the previous generation of Transitions lenses provided exceptional performance in high indices / polycarbonate (Transitions V), Standard 1.5 index was still limited to earlier technology (Transitions Next Generation). Now, Transitions VI offers consistent, high level performance across all materials.

Transitions VI lenses build on the strengths of Transitions V and Transitions Next Generation lenses and provide even better performance on key criteria.

Transitions VI lenses are:

- Darker outdoors than previous technologies
- Very clear indoors – actually improving indoor transmission on polycarbonate and high indices in comparison to Transitions V lenses
- Darker at hot temperatures than Transitions V lenses
- Faster to fade back than Transitions Next Generation

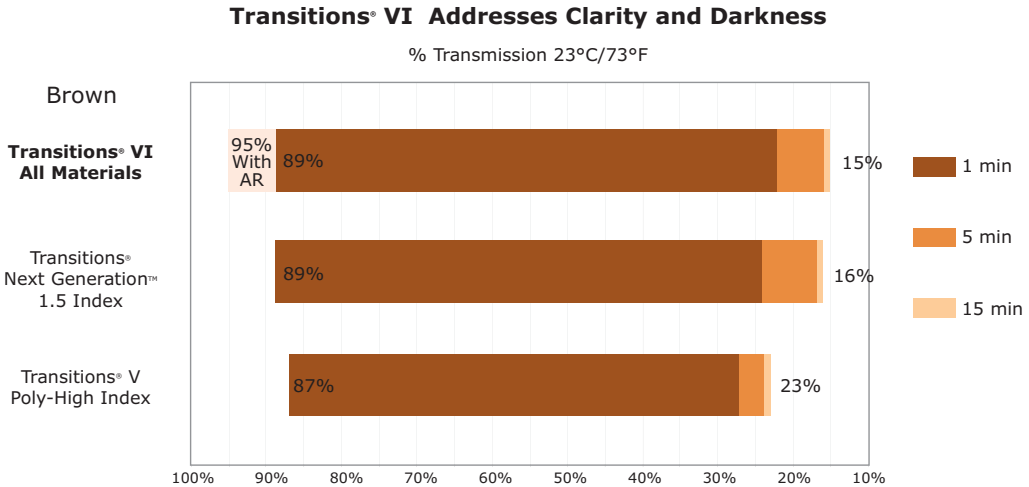
As you would expect from Transitions lenses, Transitions VI block 100% UVA and UVB radiation and provide UV 400 protection. Transitions VI lenses have received the World Council of Optometry's (WCO) global seal of acceptance and the American Optometry Association's (AOA) seal of acceptance for UV absorbers and blockers.

## Darker outdoors. As clear as a clear lens indoors.

The chart below provides detail on the clarity of the Transitions VI lens indoors and the level of darkness achieved outside in bright sun light at 23°C / 73°F.

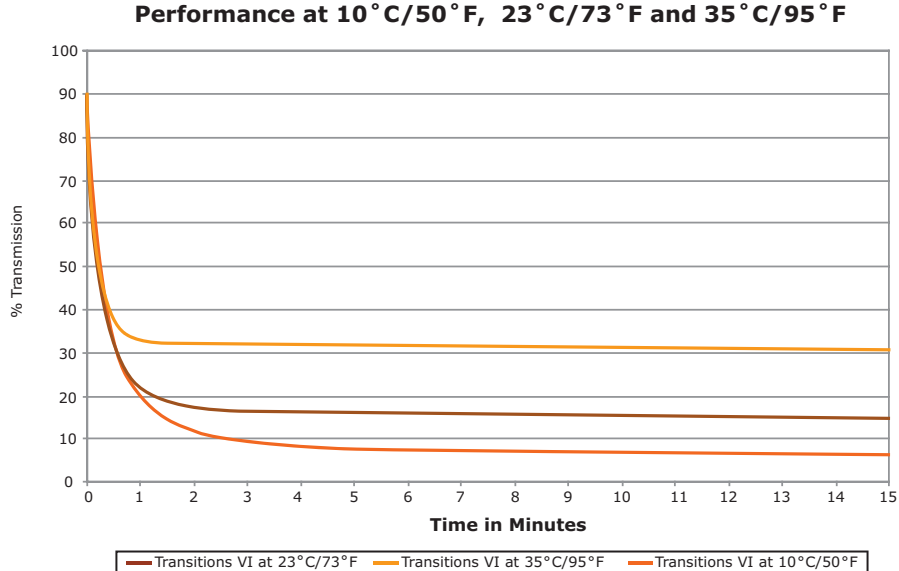
The left side of the chart indicates that Transitions VI lenses are even clearer indoors than our previous generation Transitions V lenses. Quite simply, Transitions VI lenses are as clear as a clear lens. Add an anti-reflective coating and they can reach 95% transmission, making them even clearer than a regular hard-coated clear lens.

Looking at the right side of the chart, you can see that Transitions VI lenses become darker outdoors than any previous technology allowed. Achieving a level of 15% transmission – that’s 85% tint – Transitions VI lenses become truly sunglass dark outside. And they are faster getting there, reaching 22% transmission (or 92% of its full activation) in only one minute.



## Performance in Hot and Cold Temperatures

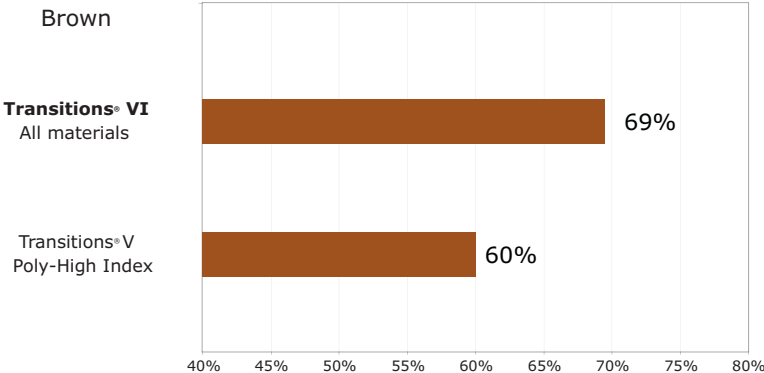
Like all photochromic lenses, Transitions VI performance will vary at different temperatures. In hotter temperatures, Transitions VI lenses will be less dark, while in colder temperatures, Transitions VI lenses will be darker.



Even so, Transitions VI lenses get darker outdoors in hotter temperatures than previous technologies, especially compared to Transitions V lenses as demonstrated by the chart below. Transitions VI lenses block 69% of the visible light at 35°C / 95°F while previous generation Transitions V lenses block only 60% of the visible light at the same temperature.

### Transitions® VI Addresses Hot Temperature Performance

Visible light blocked after 15 Minutes at 35°C/95°F



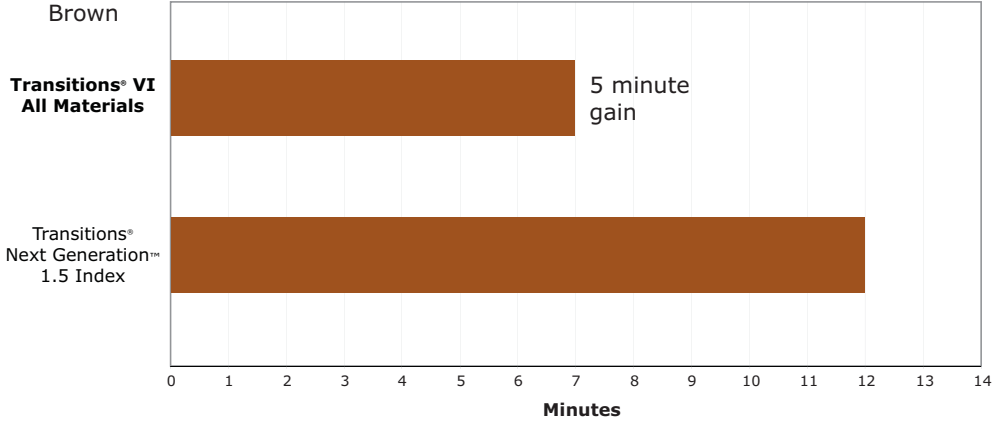
For extreme temperature conditions, some of your patients may want additional protection. We recommend Transitions lenses for everyday eyewear and polarized sunglasses for use such as driving and activities on water or snow.

## Faster fade back than Transitions Next Generation lenses

Transitions VI lenses are fast to fade. As you can see on the graph below, Transitions VI lenses fade back even faster. In fact, Transitions VI are five minutes faster returning to 70% transmission than Transitions Next Generation lenses, providing enhanced visual comfort and visual quality.

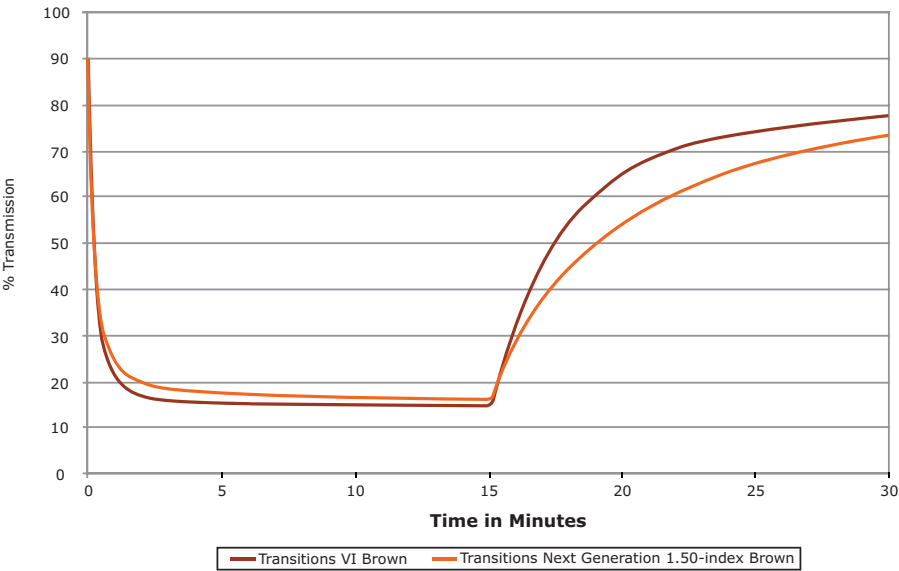
### Transitions VI is 30% Faster than Transitions Next Generation to Fade Back Indoors

Fading time to 70% transmission in minutes  
After 15 minutes activation



Overall Transitions VI lenses react more quickly to changing light conditions, promptly providing the right amount of tint at the right time. Transitions VI lenses get darker than Transitions Next Generation lenses and become clearer as soon as they start to fade.

**Activation and Fade Rate of lenses at 23°C/73°F**

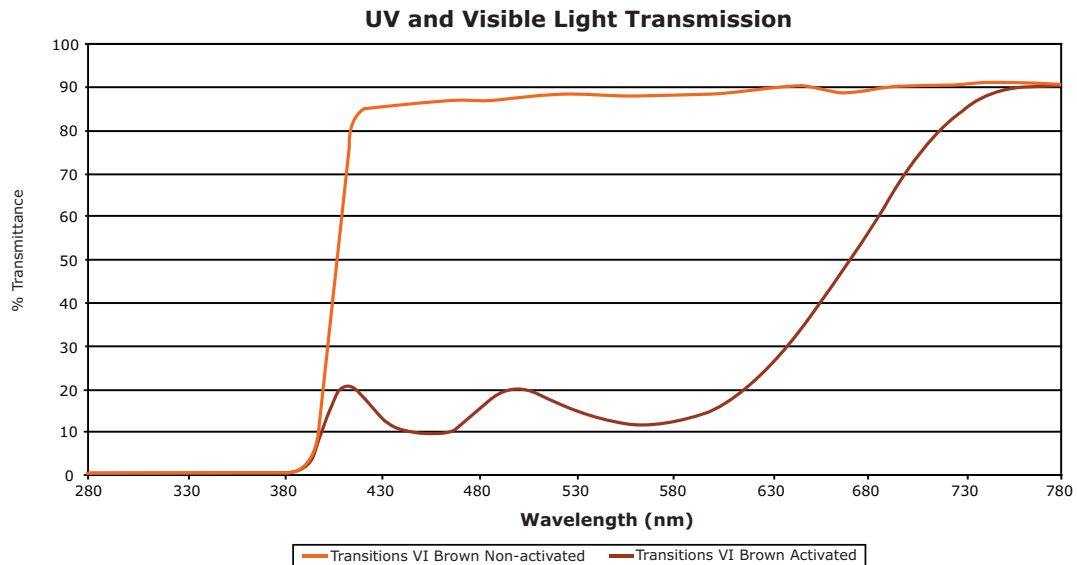


### UV Blockage and Glare Reduction

Most people, while aware of the danger of UV exposure to their skin, are inadequately aware of the threat to their eyes. Therefore, it is vital to educate all patients about the risks of sun damage to their eyes. Transitions VI lenses help reduce the risk, providing convenient protection from harmful UV rays and glare that can obscure vision. In fact, Transitions VI lenses block 100% of harmful UVA and UVB rays in both clear and darkened states. Transitions lenses are designed to provide wearers with neutral tint outdoors that do not affect color perception



when looking through the darkened lenses. By reducing the effects of glare and bright light outdoors, you can help to minimize eye fatigue and eye strain. Transitions VI lenses provide UV 400 protection.



## The Highest Standards

At Transitions Optical, Inc., we are proud to be able to state that our lenses not only meet our standards, they also meet the standards of two key eyecare professional associations:

Lenses meet AOA  
specifications for blockage  
of UVA and UVB rays.



Transitions VI lenses have received American Optometry Association's (AOA) seal of acceptance for UV absorbers and blockers.



Transitions VI lenses have also received the World Council of Optometry's (WCO) global seal of acceptance.

## Process Compatibility

Transitions VI lenses are compatible with all major anti-reflective coatings from all the major manufacturers. Transitions lenses reduce discomforting and disabling glare and when combined with an anti-reflective coating additionally improve indoor clarity, reduce distracting glare, and enhance night-time driving.

## Performance with Anti-Reflective coating

Applying an anti-reflective coating to the lens has no effect on darkening performance, and actually improves indoors transmission and time to fade back.

When combined with A/R (anti-reflective) coating, Transitions VI lenses fade back to clear\* in 30% less time.\*\*

When combined with A/R (anti-reflective) coating, Transitions VI lenses are even clearer indoors and at night (+6%), reaching 95% transmission!\*\*

\*clear defined as 70% transmission  
\*\*average performance

## International Standards of Performance

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- Category as per ISO 8980-3 Cat. 0 Non Activated, Cat. 3 Activated
- Traffic signal recognition as per ISO 14889
- Suitable for night driving per ISO 14889
- Block 100% UVA and UVB radiation per ISO 8980-3
- Block 100% UVA and UVB radiation per ANSI Z80.3
- Block 100% UVA and UVB radiation per EN 1836
- Block 100% UVA and UVB radiation per AS/NZS 1067
- Impact resistant as per US FDA Impact Resistant Regulation 21 CFR 801.410
- Impact resistant as per ANSI Z80.1
- Impact resistant as per ISO 14889 Section 5.2

## TRANSITIONS® VI TECH NOTES – GRAY



### Introducing Transitions VI lenses

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- Very clear indoors – actually improving indoor transmission on polycarbonate and high indices in comparison to Transitions V lenses
- Darker at hot temperatures than Transitions V lenses
- Faster to fade back than Transitions Next Generation

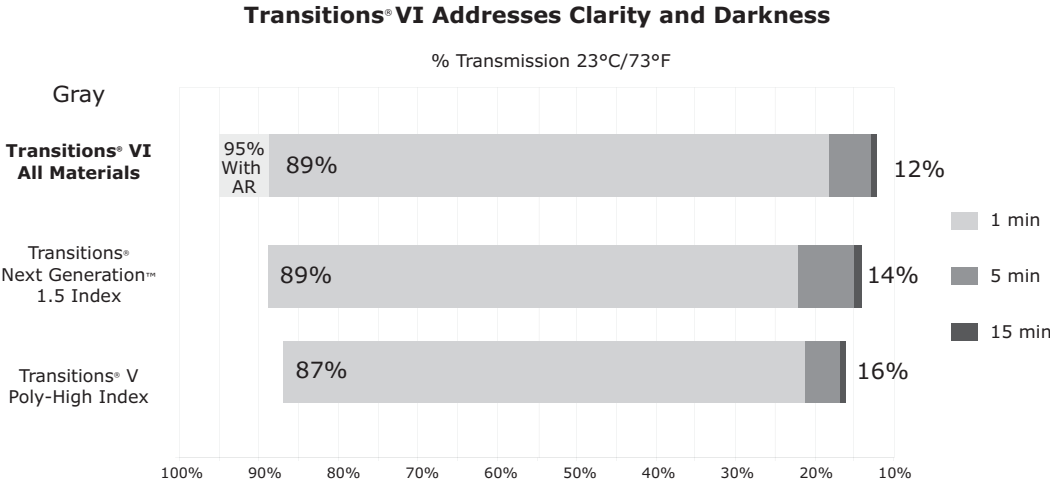
As you would expect from Transitions lenses, Transitions VI block 100% UVA and UVB radiation and provide UV 400 protection. Transitions VI lenses have received the World Council of Optometry's (WCO) global seal of acceptance and the American Optometry Association's (AOA) seal of acceptance for UV absorbers and blockers.

Darker outdoors. As clear as a clear lens indoors.

The chart below provides detail on the clarity of the Transitions VI lens indoors and the level of darkness achieved outside in bright sun light at 23°C / 73°F.

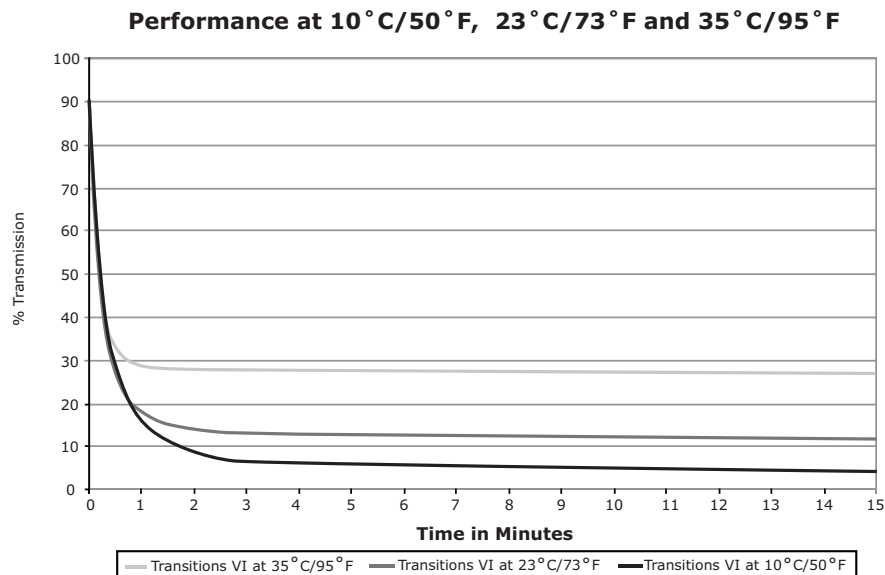
The left side of the chart indicates that Transitions VI lenses are even clearer indoors than our previous generation Transitions V lenses. Quite simply, Transitions VI lenses are as clear as a clear lens. Add an anti-reflective coating and they can reach 95% transmission, making them even clearer than a regular hard-coated clear lens.

Looking at the right side of the chart, you can see that Transitions VI lenses become darker outdoors than any previous technology allowed. Achieving a level of 12% transmission – that’s 88% tint – Transitions VI lenses become truly sunglass dark outside. And they are faster getting there, reaching 18% transmission (or 92% of its full activation) in only one minute.



## Performance in Hot and Cold Temperatures

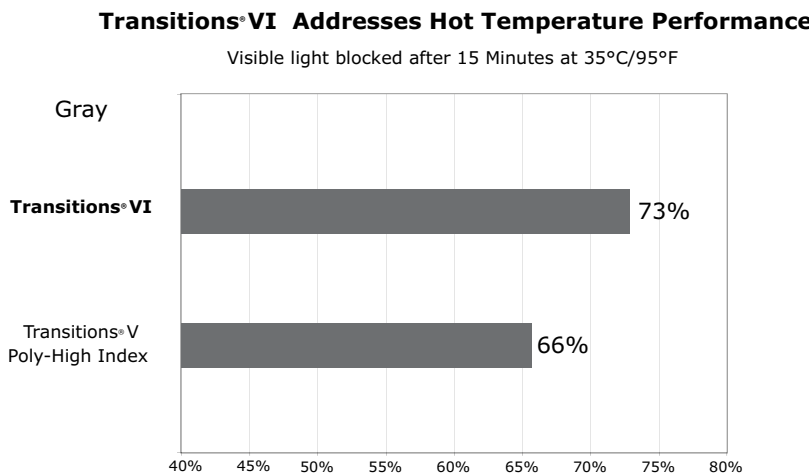
Like all photochromic lenses, Transitions VI performance will vary at different temperatures. In hotter temperatures, Transitions VI lenses will be less dark, while in colder temperatures, Transitions VI lenses will be darker.



For extreme temperature conditions, some of your patients may want additional protection. We recommend Transitions lenses for everyday eyewear and polarized sunglasses for use such as driving and activities on water or snow.

## Darker in Hot Temperatures than Transitions V lenses

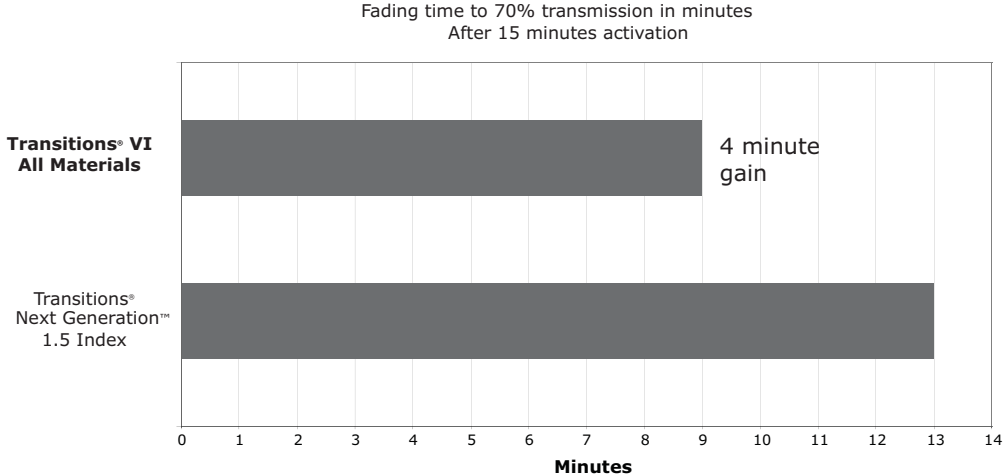
Transitions VI lenses get darker outdoors in hotter temperatures than previous technologies, especially compared to Transitions V lenses as demonstrated by the chart below. Transitions VI lenses block 73% of the visible light at 35°C / 95°F while previous generation Transitions V lenses block only 66% of the visible light at the same temperature.



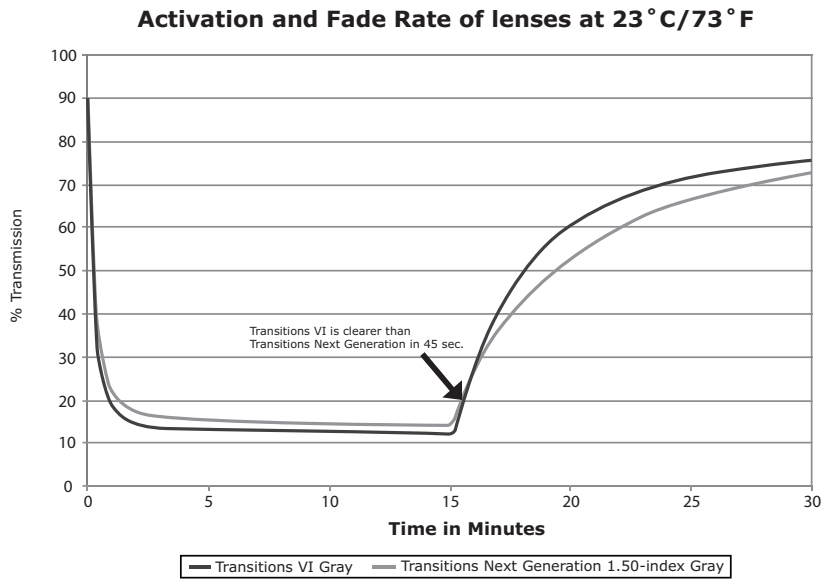
## Faster to Fade Back than Transitions Next Generation lenses

Transitions VI lenses are fast to fade. As you can see on the graph below, Transitions VI lenses fade back even faster. In fact, Transitions VI are four minutes faster returning to 70% transmission than Transitions Next Generation lenses, providing enhanced visual comfort and visual quality.

### Transitions VI is 30% Faster than Transitions Next Generation to Fade Back Indoors



Overall Transitions VI lenses react more quickly to changing light conditions, promptly providing the right amount of tint at the right time. Transitions VI lenses get darker than Transitions Next Generation lenses and become clearer after only 45 seconds of fading.

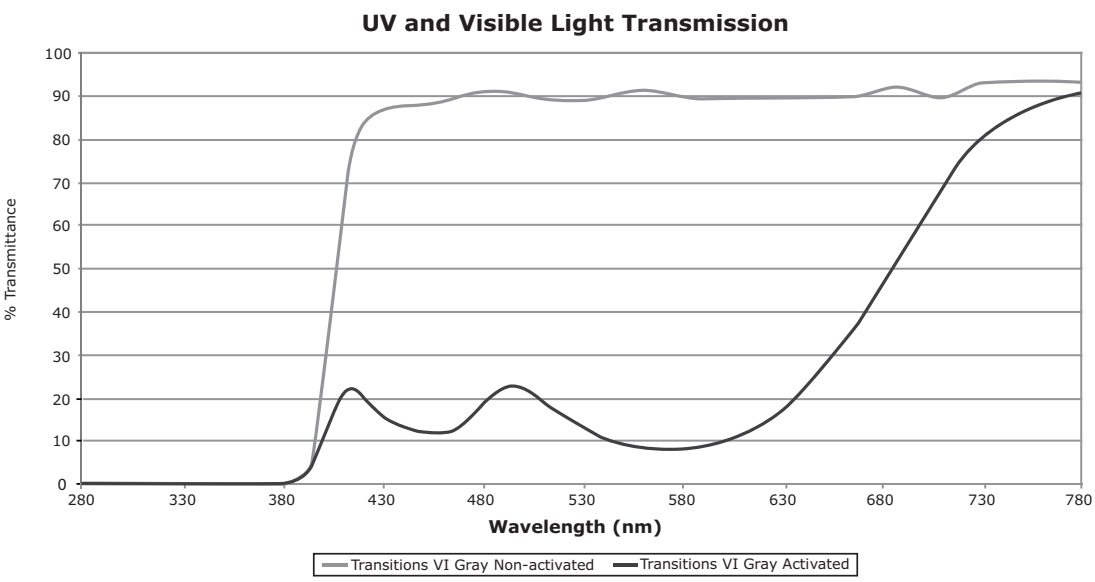


### UV Blockage and Glare Reduction

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## Performance with Anti-Reflective coating

Applying an anti-reflective coating to the lens has no effect on darkening performance, and actually improves indoors transmission and time to fade back.

When combined with A/R (anti-reflective) coating, Transitions VI lenses fade back to clear\* in 30% less time.\*\*

When combined with A/R (anti-reflective) coating, Transitions VI lenses are even clearer indoors and at night (+6%), reaching 95% transmission!\*\*

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