WANT TO ENHANCE YOUR MOTORCYCLE RIDE?

TRANSITIONS® ADAPTIVE MOTORCYCLE VISORS SEAMLESSLY SELF-ADJUST FROM CLEAR TO DARK AND BACK AGAIN WITH CHANGING LIGHT CONDITIONS FOR ENHANCED VISUAL PERFORMANCE THROUGHOUT YOUR RIDE.

SUPERIOR RIDING PERFORMANCE
Whether dominating the racetrack or out for a pleasure ride, motorcyclists know how important clear, crisp vision is. Traditionally, riders dealt with changing light conditions by carrying two visors (one clear, one tinted) with them at all times.

Transitions adaptive visors solve this problem — and even enhance vision — by seamlessly adjusting to optimized darkness levels with the changing light.

TRANSITIONS OPTICAL — LEADERS IN PHOTOCHROMIC TECHNOLOGY
Transitions Optical has been an industry leader in photochromic technology for 20 years and is known worldwide for its photochromic prescription eyeglasses: Transitions® lenses. The company’s continued commitment to innovation has helped Transitions Optical to become the leading photochromic ophthalmic lens product and the number one eyecare professional-recommended photochromic lenses worldwide.

Driven by innovation, the company has continually improved its core clear-to-dark product (Transitions lenses), and has expanded in other areas with additional products that meet consumers’ visual needs, including sunwear and everyday products with varying features (lightly tinted to very dark, clear to light and variable polarization.)

Transitions adaptive sunwear is the company’s sunwear brand, which includes both prescription and non-prescription sunglass lenses, and motorcycle visors that automatically darken and lighten in outdoor light. For the first time, with Transitions adaptive visors, the company is expanding its product offering to non-ophthalmic products, bringing Transitions’ state-of-the-art technology to a broader audience.

Transitions sunwear products are designed to enhance visual performance outdoors, optimizing the amount of darkness and color for specific outdoor activities like motorcycling, golf, driving, cycling, running, hunting/target shooting and water sports.

HOW PHOTOCHROMICS WORK

Photochromic technology allows visors to automatically and seamlessly change from clear to dark in sunlight. The process works when photochromic dyes embedded into the lens or shield react to UV light, changing levels of darkness with the sun.

When UV light is removed, a chemical reaction driven by ambient heat reconverts the activated photochromic molecules to their original, clear form and the lens fades.

The amount darkening is a function of the competition between the activating and fading chemical reactions, the equilibrium condition established between them, and the specific photochromic molecules and the lens substrate. The more activated photochromic molecules that are present, the darker a lens becomes. The degree of darkness depends on the level of available UV radiation driving the activation reaction and the temperature of the lens, which drives the fade reaction.

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PRODUCT DETAILS AND UV PROTECTION
Transitions adaptive sunwear products have a range of light transmission levels; all optimized for the specific activity the product is designed for. Specifically, the Transitions adaptive sunwear visors:
- Non-activated – virtually clear
- Activated – darken to a 15% light transmission level at 72° Fahrenheit and 23° Celsius
- Full activation in 2 minutes
- Fades to 50% transmission in 2 minutes
- Like all Transitions products, the visor blocks 100% of UV rays

SPECTRAL CURVE DATA

STANDARDS
Transitions adaptive visors are designed to meet International Standards of Performance for driving.
- Category as per ISO 8980-3
  - Non-activated – Category 0
  - Activated – Category 3
- Traffic Signal recognition as per ISO 14889
- 100% protection from UVA and UVB as per ISO 8980-3
- 100% protection from UVA and UVB as per ANSI Z80.3
- 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

TEMPERATURE
Like all photochromic products, temperature can cause fluctuation in performance. UV rays activate the photochromic molecules through a photochemical process – this makes the shield darken. The fade back reaction is actually driven by heat – so in extremely hot temperatures, the photochromic molecules are actually fading back while they are activating – this prevents the shield from fully darkening. Transitions technology is the most advanced in the industry, and is the least temperature sensitive, but there will be some performance variables depending on the temperature.

TESTIMONIALS
Transitions adaptive visors have been well-received in the motorcycle industry. A recent review by Roadracing World magazine said the visor was “Most excellent”, “Worth the price of admission” and made an “amazing difference” in the reviewer’s ride.1

PRODUCT PROOFS AND SUBSTANTIATION
- Transitions lenses reduce squinting, eye fatigue and help protect against eye strain.2
- Outside, Transitions lenses reduce glare and enable you to distinguish contrast more easily.3

VISIT TRANSITIONSSUNWEAR.COM FOR MORE INFORMATION AND A DEMONSTRATION OF THE SHIELD PERFORMANCE.

1 Roadracing World magazine product review. October 2010
3 Stenson S. Light, Sight, and Photochromics: 2002-42.