

*Next generation of in-mass photochromic technology.*



**SunSensors™** lens technology

*The lineup with two types of advanced materials*

**SunSensors™ MR-8**  
**Light weight and thinness-High refractive index lens material MR™ with advanced photochromic performance**

Refractive index  
**1.60**

In addition to fast darkening-fading speed, Thio-urethane (MR-8™) based material is suitable for versatile design such as rimless frames and high-curve lenses.

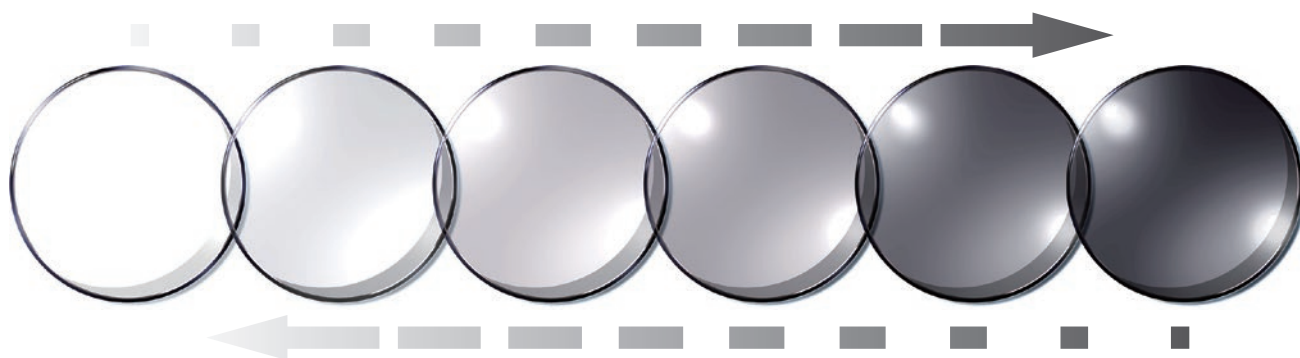
**SunSensors™ 50HPM**  
**Exceptional optical properties-Low refractive index lens material with advanced photochromic performance**

Refractive index  
**1.51**

In addition to fast darkening-fading speed, exceptional optical quality(High-abbe) is achieved by allyl and acrylic mixture based material.

# Lens color shifts rapidly when moving from an indoor location to outdoor and vice-versa.

Provides comfortable shading outdoors while blocking harmful UV light.



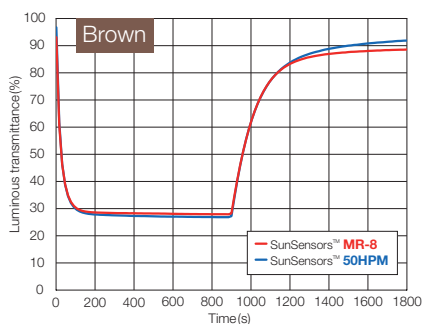
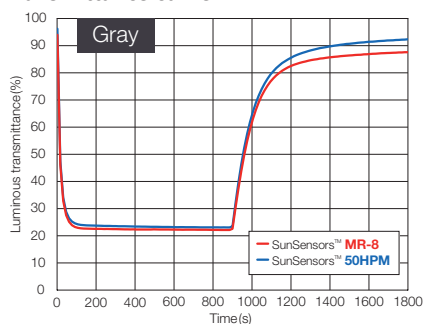
Mitsui Chemicals has improved SunSensors™ with innovative in-mass photochromic technology.

This innovative new photochromic system excels in top notch color fading, while bringing considerably better durability compared to classical systems based on coatings.

Product name	Refractive index	Photochromic performance				Lens material characteristics		
		Color density	Darkening speed	Fading speed	Weather resistance	Strength	Workability	Optical quality (Abbe number)
SunSensors™ <b>MR-8</b>	1.60	★★★	★★★★	★★★★	★★★★	★★★	★★★★	★★
SunSensors™ <b>50HPM</b>	1.51	★★★	★★★★	★★★★	★★★★	★★	★★★	★★★★

★★★★ : Much better than standard   ★★★ : Better than standard   ★★ : Standard model (SunSensors™ 55)

Transmittance curve



\*Measured on our prototype 2 mm thick lenses (center) at 23 °C and a wavelength of 550 nm

\*All properties are representative measurement figures obtained under specified test methods at Mitsui Chemicals, Inc and not guaranteed as specifications

<https://jp.mitsuichemicals.com/en/service/healthcare/vision/sunsensors/index.htm>



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