

Next generation of in-mass photochromic technology.



SunSensors™ lens technology

The new line up with four types of advanced materials

SunSensors™ - MR-8™ **NEW**
Light weight and premium strength-High-refractive index material with advanced photochromic performance

Refractive index
1.60

In addition to faster darkening-fading speed*1, Thio-urethane(MR-8™) based material is suitable for versatile design such as rimless frames and high-curve lenses.

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

Refractive index
1.50

In addition to faster darkening-fading speed*1, excellent optical quality(High-abbe) is achieved by allyl and acrylic mixture based material.

SunSensors™ - 55HPM
Middle-index material with advanced photochromic performance

Refractive index
1.55

Middle-index in-mass photochromic material that achieves faster darkening-fading speed*1 through optimization of base material and pigment.

SunSensors™ - 55
Middle-index material with traditional photochromic performance

Refractive index
1.55

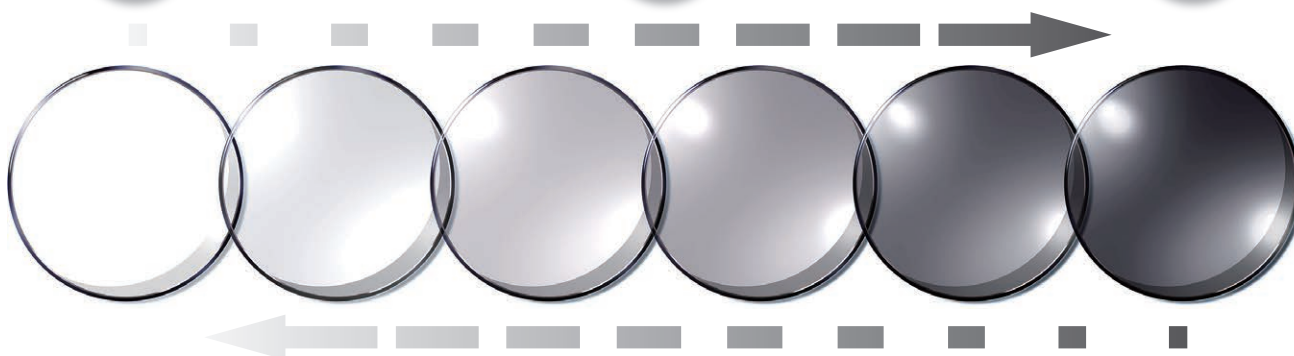
Middle-index in-mass photochromic material with previous SunSensors™ hue.

Refractive index **1.67** **coming soon**

*1 compared to the existing model

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

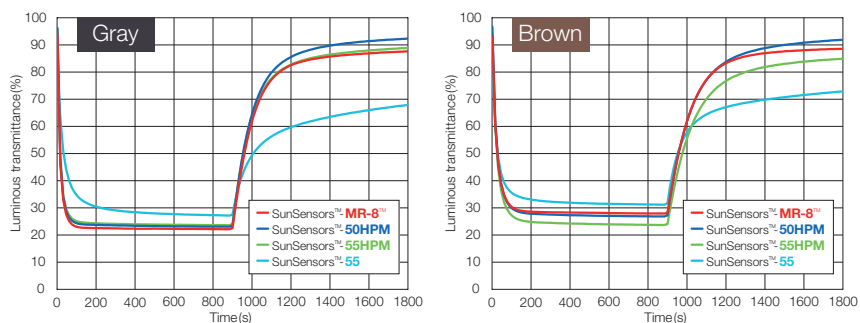
Provides comfortable shading outdoors while blocking harmful UV light.



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)	Appearance (thinness)
SunSensors™ MR-8™	1.60	Very Good	Excellent	Excellent	Excellent	Very Good	Excellent	Very Good	Excellent
SunSensors™ 50HPM	1.50	Very Good	Excellent	Excellent	Excellent	Good	Very Good	Excellent	Good
SunSensors™ 55HPM	1.55	Very Good	Excellent	Excellent	Excellent	Good	Good	Very Good	Very Good
SunSensors™ 55	1.55	Good	Good	Good	Very Good	Good	Good	Very Good	Very Good

Transmittance curve Measured at 23 °C with our lens with 2 mm in central thickness



<https://jp.mitsuichemicals.com/en/special/mr/other/>



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