

SunSensors™

SunSensors™  
HPM

## Features

Photocromic In-Mass technology

Mid-index (1.56)

Clear indoors (86%)

Dark Outdoors (Sunglass category 3)

Available in Gray and Brown



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# Technical data

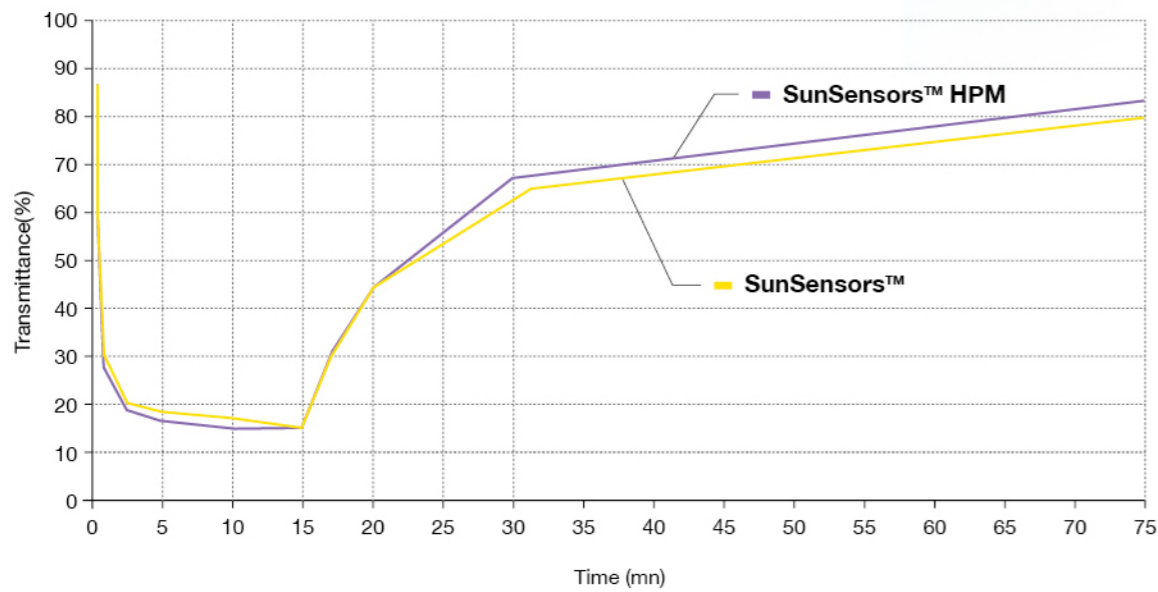
**SunSensors™**  
Global standard of photochromic plastic lens

**SunSensors™ HPM**  
High Performance Photochromic Monomer (HPM) to improve photochromic performance by high thermal dependence

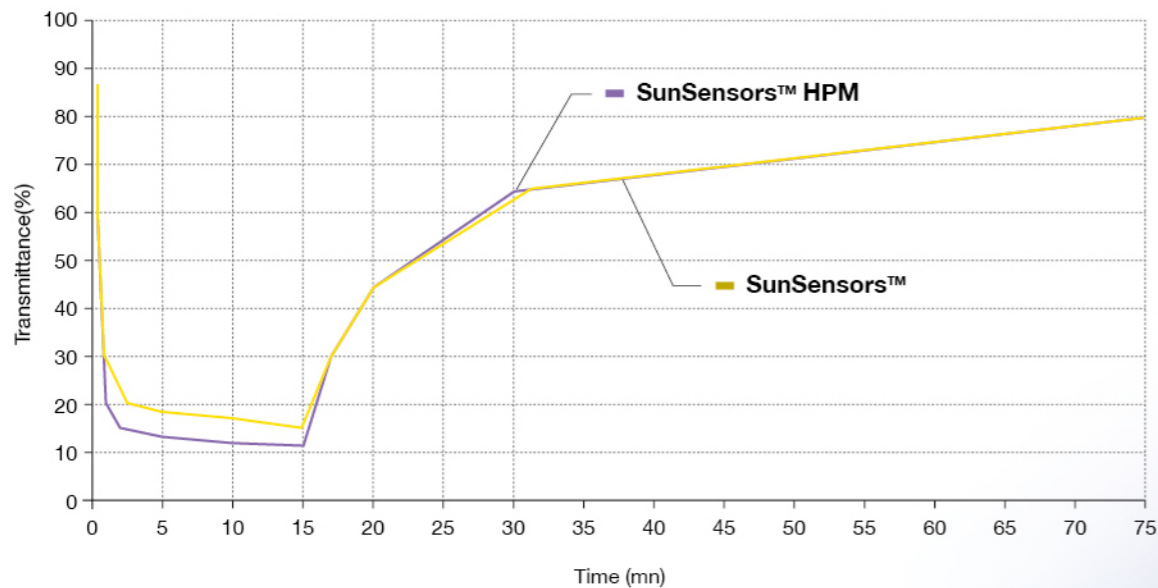


## Transmission curves

**GRAY**  
Darkening/Fading Curve of SunSensors™ GRAY  
Solar Simulator, Temperature 22°C, simulated indoor fading  
Thickness 2 mm



**BROWN**  
Darkening/Fading Curve of SunSensors™ BROWN  
Solar Simulator, Temperature 22°C, simulated indoor fading  
Thickness 2 mm



## Characteristics according to ISO 14889

Transmission Factor (Visible + UV)

	SunSensors™				SunSensors™ HPM					
	Gray		Brown		Gray			Brown		
Test Condition	Clear	Dark	Clear	Dark	Clear	Dark at 22°C	Dark at 35°C	Clear	Dark at 22°C	Dark at 35°C
Visible (380-780 nm) (Tv)	86%	17%	85%	20%	87%	13%	26%	89%	13%	28%
UV-B (280-315nm) (Ts)	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.15%	<0.1%	<0.1%	<0.15%
UV-A (315-380nm) (ts)	5.0%	2.5%	3.5%	2.0%	<0.5%	<0.1%	<0.2%	<0.5%	<0.2%	<0.3%
UV-A+B (280-380nm) (ts)	3.5%	2.0%	2.5%	1.5%	<0.15%	<0.10%	<0.15%	<0.25%	<0.12%	<0.20%

## Transmittance properties according to ISO 8980-3

Transmission categories (thickness 2 mm)

	SunSensors™		SunSensors™ HPM	
	Gray	Brown	Gray	Brown
Clear State	0	0	0	0
Dark State	3	2	3	3

## Physical Properties

	SunSensors™	SunSensors™ HPM
Refractive Index	1.559	1.559
Abbe Number	38	38
Density	1.17g/cm <sup>3</sup>	1.17 g/cm <sup>3</sup>

**Sunsensors™ and SunSensors™ HPM pass the standards of traffic signal recognition; ISO 14889, ANSI Z80.3 and AS1067.1.**