

## Near Infrared (NIR) Absorptive Filter

# SC 807 SC 807H SC 807L

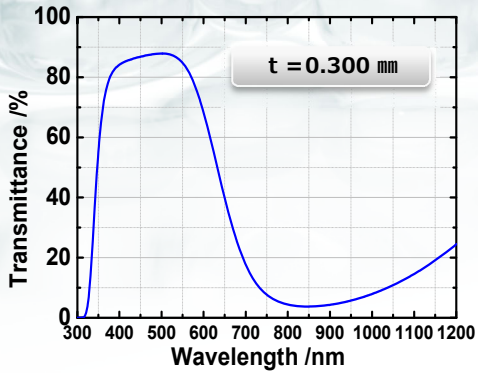
NIR absorptive filter is equipped with solid-state image sensing devices, such as CCD or CMOS to correct colors of images to be natural and accurate. Our absorptive filters are ideal bandpass for visual areas when high absorption in the near infrared (NIR) wavelength range is required. SC 807 series have better weather resistance, designed to perform in difficult environments, and have higher absorptive NIR ability compared to the conventional products.

		SC 807 series	
Optical properties	Refractive index (nd)	1.606	
Thermal properties	Transformation point Tg	527 °C	
	Yielding point At	563 °C	
	Thermal expansion ( $\alpha$ ) (+100 ~ +300°C)	$113 \times 10^{-7} / ^\circ\text{C}$	
Chemical durability	Powder method*	Acid resistance RA (5)	1.22 wt%
		Water resistance RW (1)	0.01wt%
	Surface method	85 °C 85 %Rh 300 Hr	No change (visual observation)
Other properties	Specific gravity S.g	3.50	
Mechanical properties	Knoop Hardness HK (Rank)	366 N/mm <sup>2</sup> (4)	
	Abrasion Index (Ha)	483	

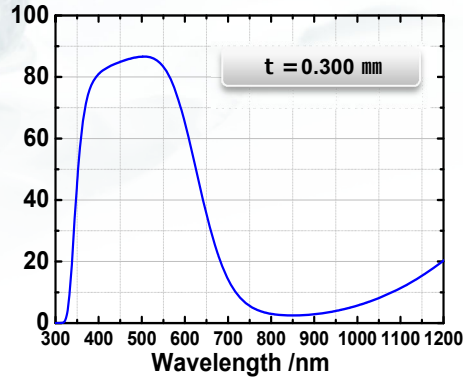
\*Chemical durability (powder method) data is measured by Japan Optical Glass Industry Standard.

## ◆ Transmittance

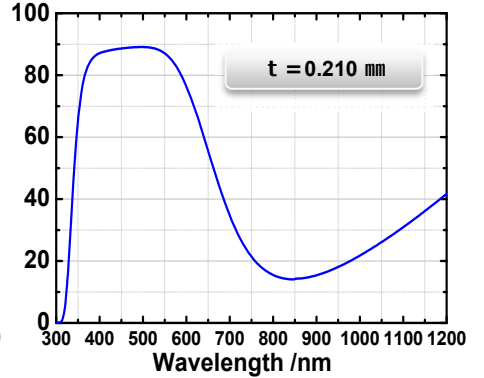
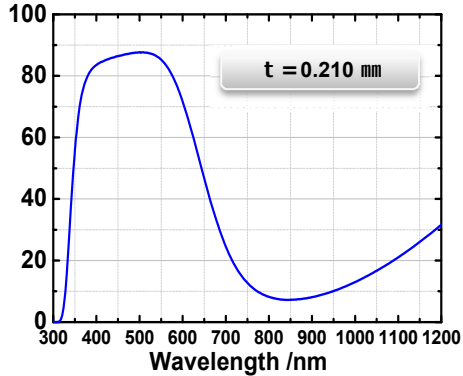
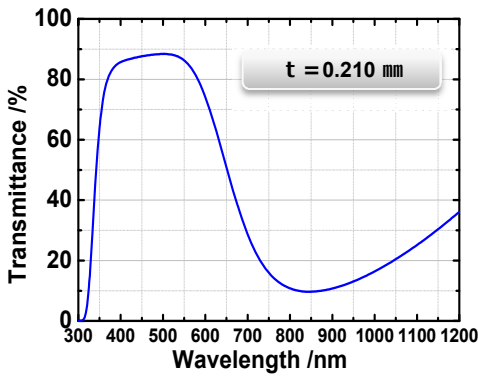
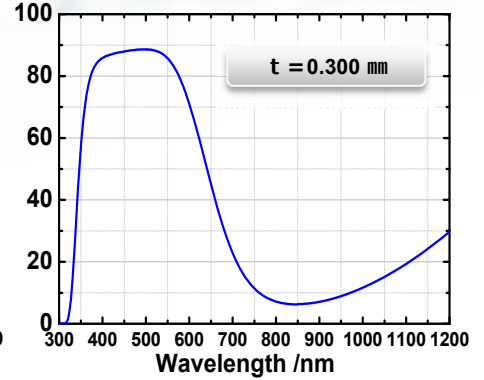
### SC 807



### SC 807H



### SC 807L



Wavelength (nm)	Transmittance (%)	Thickness (mm)
700	20>	0.300
650	42>	
633±3	50	
550	84<	
400	83≤	
700	30>	0.210
652±3	50	
650	52>	
550	85<	
400	84≤	

Wavelength (nm)	Transmittance (%)	Thickness (mm)
700	15>	0.300
650	36>	
626±3	50	
550	83<	
400	80≤	
700	26>	0.210
650	48>	
644±3	50	
550	84<	
400	83≤	

Wavelength (nm)	Transmittance (%)	Thickness (mm)
700	24>	0.300
650	46>	
641±3	50	
550	85<	
400	85≤	
700	36>	0.210
662±3	50	
650	57>	
550	86<	
400	86≤	

\* The specifications of the product may be changed without prior notice.

