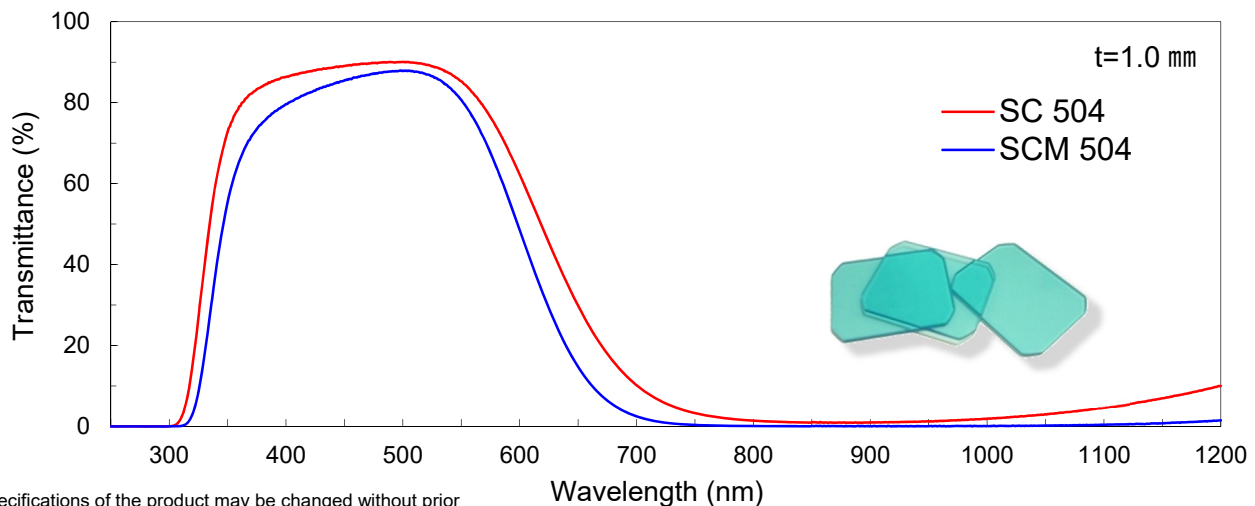


Near Infrared (NIR) Absorptive Filter SC 504 / SCM 504

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. SCM 504 has sharper NIR absorption compared to SC 504. Both of them are designed to perform in difficult environments for long hours of operation - repeatable optical performance with high chemical durability and humidity resistance, and achieve high transmittance in visible range and effective absorption in NIR range.

		SC 504	SCM 504	
Optical properties		Refractive index (nd)	1.529	1.530
Thermal properties		Transformation point Tg	508°C	502°C
		Yielding point At	556°C	545°C
		Thermal expansion (α) (-30 - +70°C)	$66 \times 10^{-7} / ^\circ\text{C}$	$71 \times 10^{-7} / ^\circ\text{C}$
		Thermal expansion (α) (100 - 300°C)	$81 \times 10^{-7} / ^\circ\text{C}$	$87 \times 10^{-7} / ^\circ\text{C}$
Chemical durability	Powder method*	Acid resistance RA	1	1
		Water resistance RW	1	1
	Surface method	Chemical durability DW	1	1
Other properties		Specific gravity S.g	2.62	2.64
Mechanical properties		Knoop Hardness HK (Rank)	433 N / mm ² (4)	503 N / mm ² (5)
		Young's modulus E	$794 \times 10^8 \text{ N} / \text{m}^2$	$782 \times 10^8 \text{ N} / \text{m}^2$
		Modulus of rigidity G	$325 \times 10^8 \text{ N} / \text{m}^2$	$319 \times 10^8 \text{ N} / \text{m}^2$
		Poisson ratio σ	0.222	0.227

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



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

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