



MOCOM

Alcom® LIR Making more out of invisible light

Alcom® LIR features optimized materials for infrared (IR) light applications with high transmission in the near-IR spectrum and particularly low transmission in the visible light spectrum. Thereby sensors and cameras can be hidden safely and fully functioning behind piano black lenses.

While hindering the transmission of visible light (wave length 380-780 nm), Alcom® LIR enables full transparency and lowest haze in the infrared spectrum (from 780 nm). The visual experience is characterized by a deep and glossy black appearance. At the same time, IR-optical elements hidden behind a cover of Alcom® LIR remain fully functioning and safely protected against environmental impacts, such as visible stray light, dust, dirt or mechanical stresses.

Advanced processing technology and comprehensive know-how in formulation and production technology enable Alcom® LIR to be provided in consistently high quality and with specified IR-optical properties.

This package has been convincing our customers for years, e.g. in the application areas of automotive driver assistance systems, for safety and surveillance cameras and in consumer electronics. Typical applications include proximity sensors, IR camera lenses, protective screens for IR-LEDs and bezels for gesture control systems.

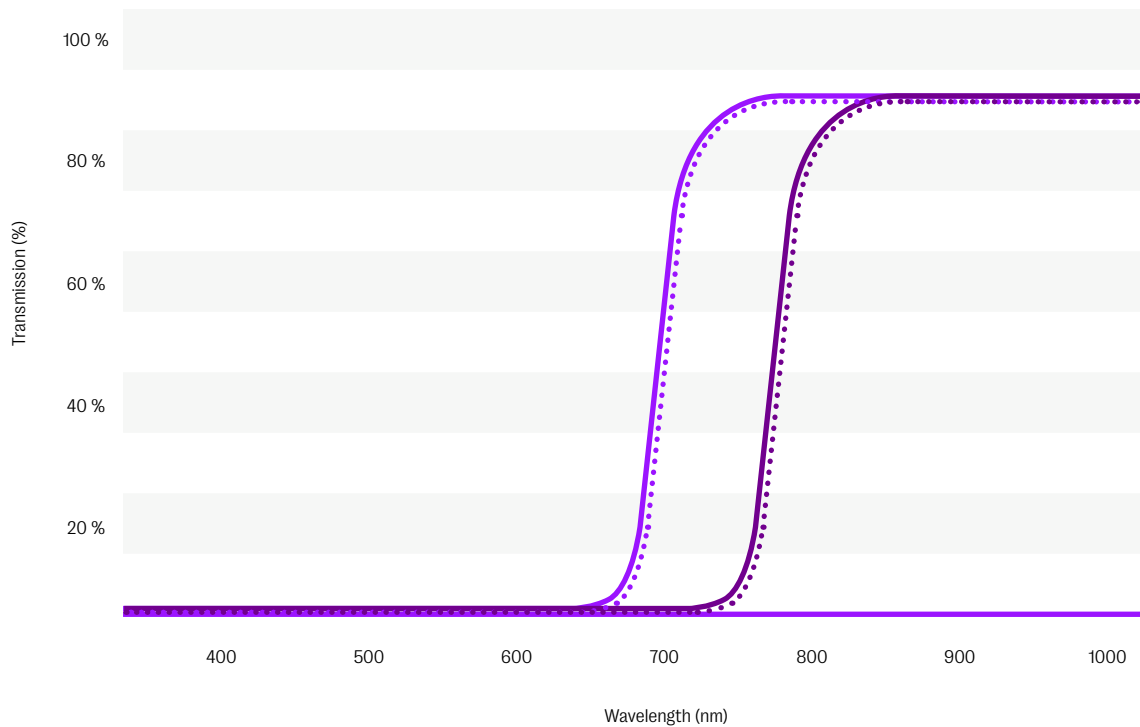
Additional products and information are available on request.

Alcom® LIR: the advantages at a glance

- Compounds based on Polycarbonate (PC)
- Highest transmission and lowest haze in near-infrared spectrum
- Piano black appearance, blocking of visible light

Polymer	Material name	UV stabilized	Start max. transmission level at wavelength (nm)	Spectral transmission (1 mm wall thickness) 800 nm (%)	Spectral transmission (1 mm wall thickness) 900 nm (%)
PC	Alcom® LIR PC 1000 UV 14099 BK1203-14	yes	780	>90 %	–
	Alcom® LIR PC 1000 18155 BK1191-18	no	780	>90 %	–
	Alcom® LIR PC 1000 19005 BK1009-19	yes	850	–	>90 %
	Alcom® LIR PC 1000 UV BK1226-19	no	850	–	>90 %

Transmission Spectrum



- UV 14099 BK1203-14
- ⋯ 18155 BK1191-18
- ⋯ 19005 BK1009-19
- UV BK1226-19

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