



**New generation of blue filter glass
for hybrid IRCF solutions**

BG47: New NIR Cut Filter / Blue Filter Glass

The constant quest for the best photo quality in mobile devices and new challenges in AR/VR applications also require new high performance from the built-in NIR cut filters.

BG47 is the latest development from SCHOTT with the highest IR absorption to achieve the best color correction and avoid ghost images and optical artifacts.



Developed for use in hybrid filters, BG47 proves its advantages above all with very good IR absorption starting from 700 nm. In addition, the IR absorption remains very high up to 1100 nm, fully covering the relevant NIR range.

Combined with high transmission in the visible range, BG47 is the optimum basis for complex hybrid IRCF solutions for mobile devices and other applications.

Features

- Very high NIR absorption
- High transmittance in the visible spectrum
- Excellent inner quality
- High mechanical and chemical resistance

Advantages

- Improved image quality by reduced flare and ghost effects
- Allows true color imaging
- Repeatable optical performance due to mass production
- Long application lifetime

Applications

- Consumer Electronics
- Surveillance
- Imaging

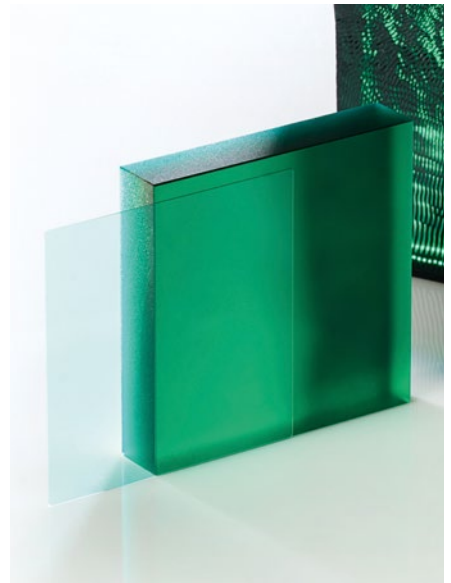
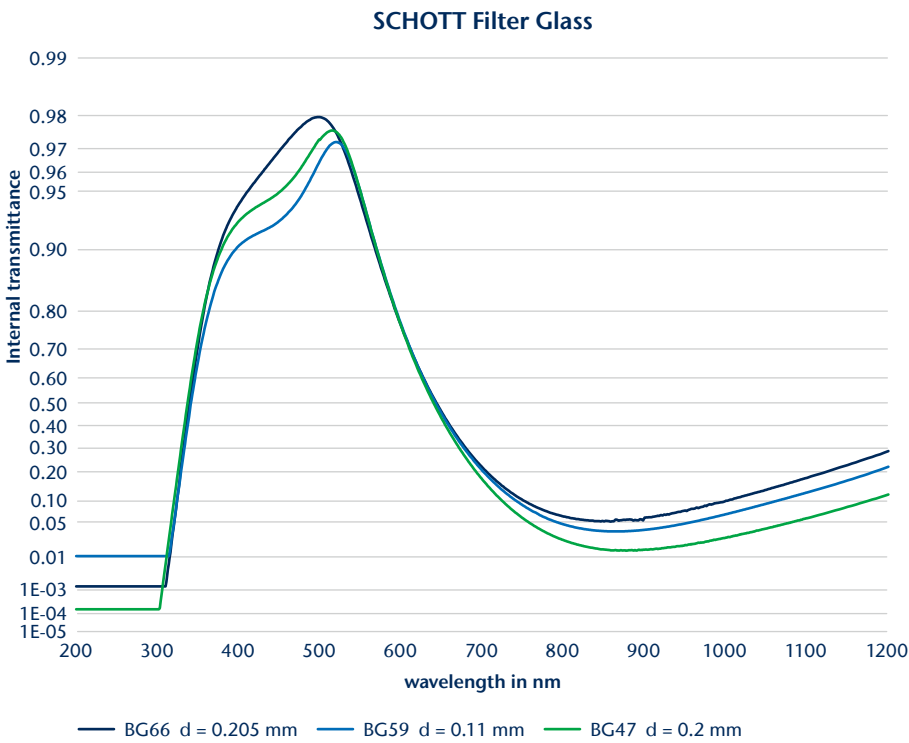
Forms of Supply

- Matte plates
- Polished filter



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		BG47 NEW	BG59	BG60	BG61	BG62	BG66	BG67
Refractive index	n_e	1.5420	1.5547	1.5399	1.5370	1.5417	1.5430	1.5427
	n_d	1.5405	1.5523	1.5379	1.5350	1.5397	1.5388	1.5405
Cut-off wavelength	$\lambda_{0.5}$	633 nm	634 nm	633 nm	648 nm	644 nm	635 nm	632 nm
At thickness		@ 0.2 mm	@ 0.11 mm	@ 0.3 mm	@ 0.3 mm	@ 0.21 mm	@ 0.21 mm	@ 0.175 mm



For more information, see our Optical Filter Glass Calculator:
schott.com/products/optical-filter-glass/downloads

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