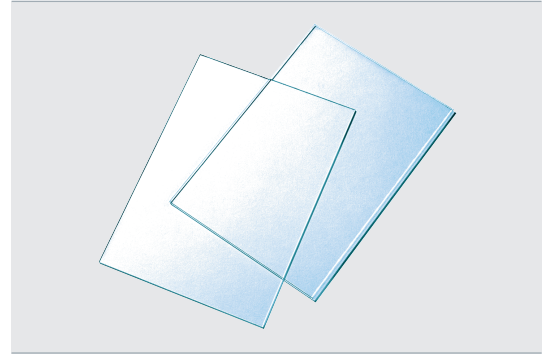


SoFi™ Solar Filters

Thin Film Filters for Photovoltaic Device Testing

Solar conversion filters increase the performance of solar simulators by converting the radiation of a technical light source into a spectral distribution equivalent to the sunlight. With Optics Balzers solar conversion filters "better than class A" according to IEC 60904-9 is achievable for different lamp types (eg. Xenon or Metal Halide). In addition to these international standards Optics Balzers is also able to meet customer specific spectral requirements in the UV, VIS and NIR spectral range.



Benefits

- adaptable to customer specific light sources and different solar spectra
- conversion to class A and better according to IEC 60904-9
- dielectric filter with low absorption
- conversion independent of glass thickness
- 400° C temperature stability

Applications

- Solar simulators for solar cell performance testing
- UV-test equipment
- Accelerated lifetime testing equipment for paint, fabric and other synthetic materials
- weathering test equipment

Technical Data

wavelength range (nm)	classification*		
	better than A	A	B
400 – 500	0.85–1.15	0.75–1.25	0.6–1.4
500 – 600	0.85–1.15	0.75–1.25	0.6–1.4
600 – 700	0.85–1.15	0.75–1.25	0.6–1.4
700 – 800	0.85–1.15	0.75–1.25	0.6–1.4
800 – 900	0.85–1.15	0.75–1.25	0.6–1.4
900–1100	0.85–1.15	0.75–1.25	0.6–1.4

* match to solar spectral distribution according to IEC60904-9

Customer specific non-standard spectral requirements

on request

UV Cut-On wavelength and UV Transmission

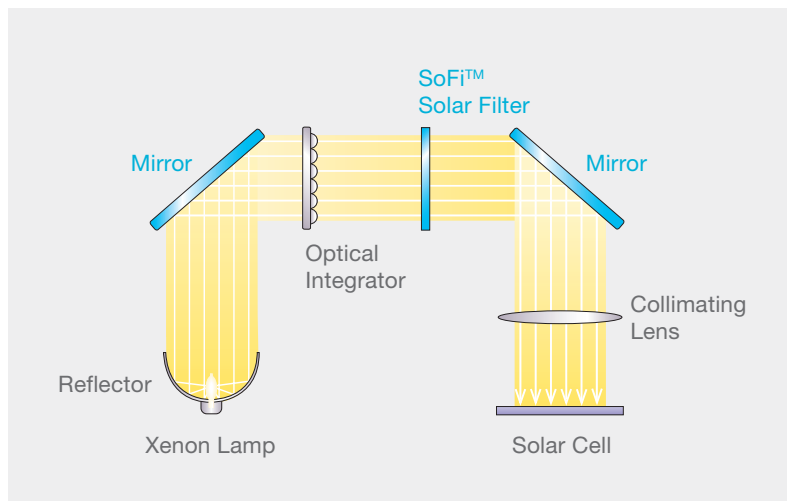
on request

Anti-Reflection Coating

on request

Optics Balzers enabling innovative optical solutions for over 60 years

Typical Solar Simulator



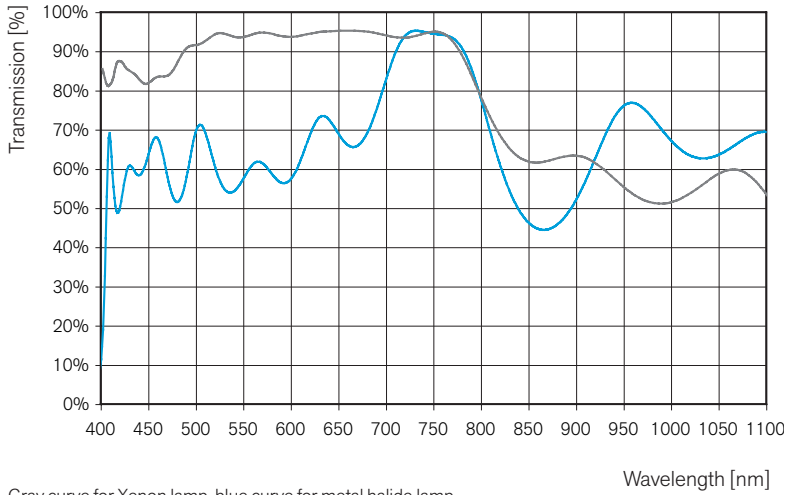
Solar Simulators let you simulate various solar conditions

Optics Balzers AG

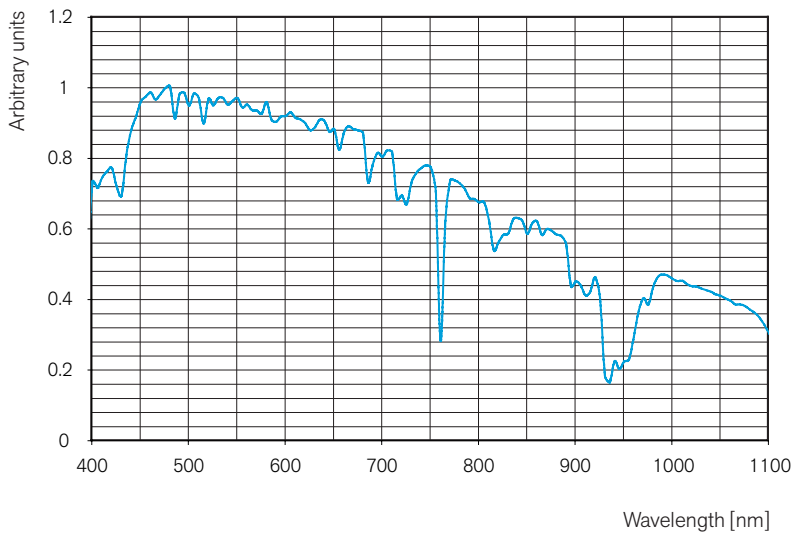
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Typical Conversion Filter Spectra



Standard Solar Spectrum AM 1.5 G



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