

Lumiphous™

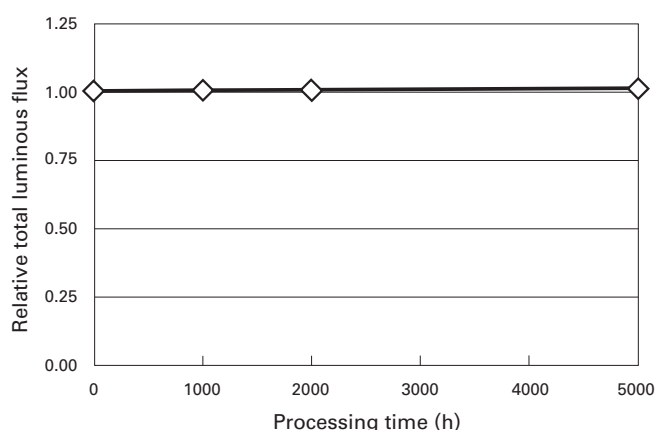
Lumiphous™ was developed for wavelength conversion glass for LED or LD. It has features such as low color deviation and a high latitude of colors. It also has excellent heat, water, and light resistance, and it allows high power light emission.

In addition, we customize various wavelength conversions according to the wavelength of the light source, such as visualizing the ultraviolet rays emitted from UV lamps and UV-LEDs.

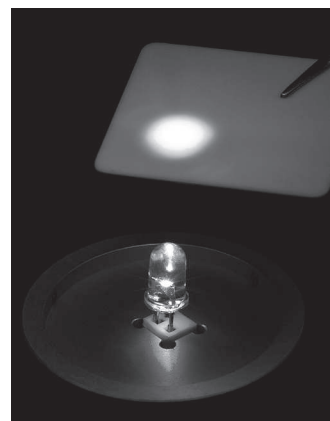
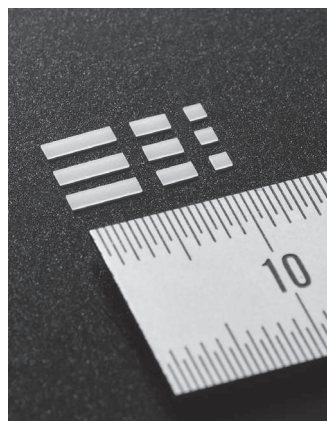
Features

- High accuracy color control
- Various chromaticities are available.
- Various shapes and sizes are available.
- Good light emission continues after weathering test. (85°C/85%RH×5000h)
- Mirror-finishing in sheet shape by precision polishing is possible.
- UV light shielding or transmission is adjustable.

Weathering Test (85°C/85%RH ×5000h)



*Applied same light and same power for 5000 hours



Applications

- Automotive lighting
- Medical lighting
- Industrial lighting
- UV detection
- UV excitation light source

Properties

		Glass A	Glass B
Coefficient of thermal expansion*	$\times 10^{-7}/K$	68	42
Heat resistance temperature	$^{\circ}C$	> 500	
Refractive index(n_d)(Glass matrix)		1.6	1.5

*Depending on the amount and type of phosphor.

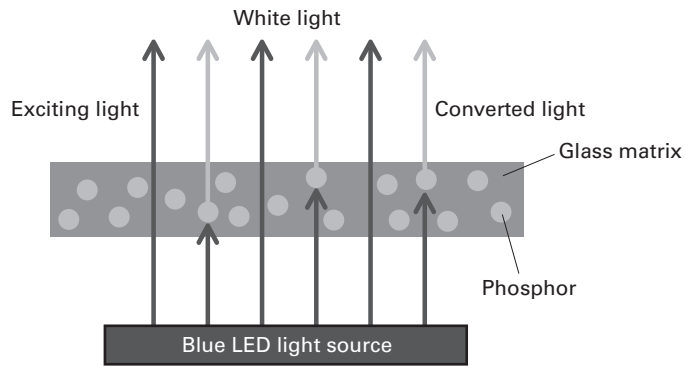
Size Examples

(mm)

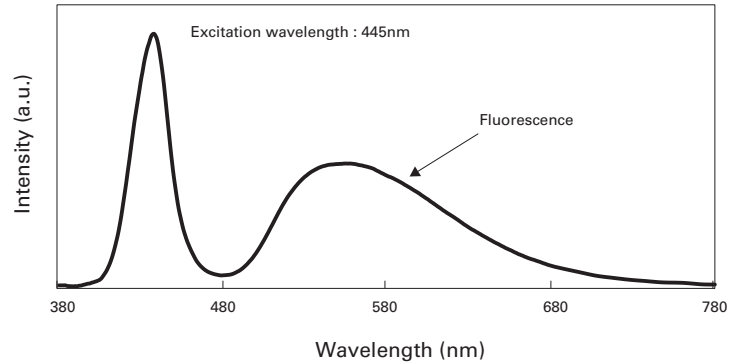
	Length	Width	Thickness
I	1.0	1.0	0.1
II	1.0	4.0	0.2
III	10.0	10.0	0.3

We are able to accommodate individual requests.

Example of Wavelength Conversion (Visible light conversion)

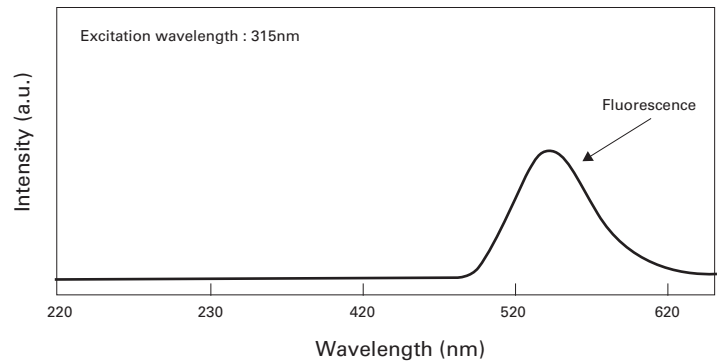
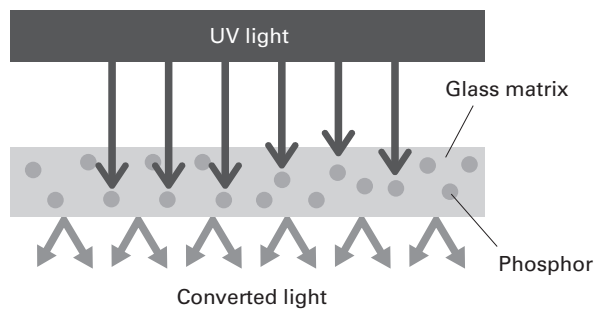


Spectral Examples (YAG)

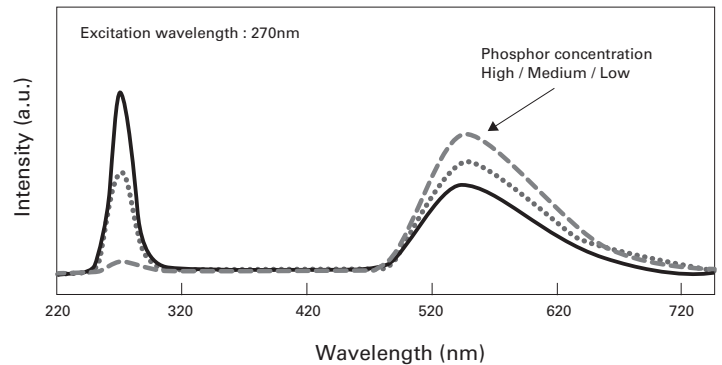
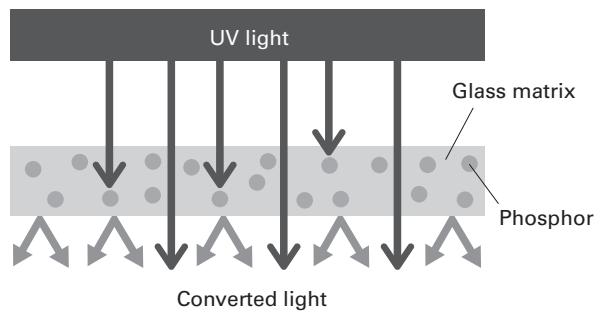


Example of Wavelength Conversion (UV light conversion)

■ In case of UV shielding



■ In case of UV transmitting



■ In case of containing multiple phosphors

