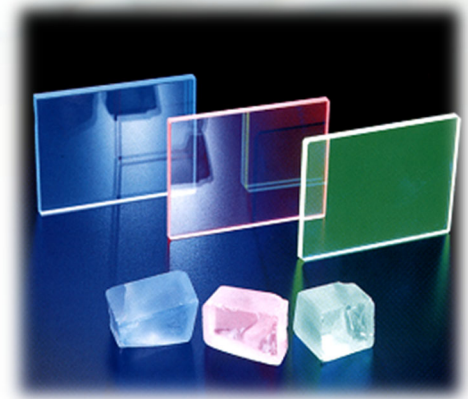
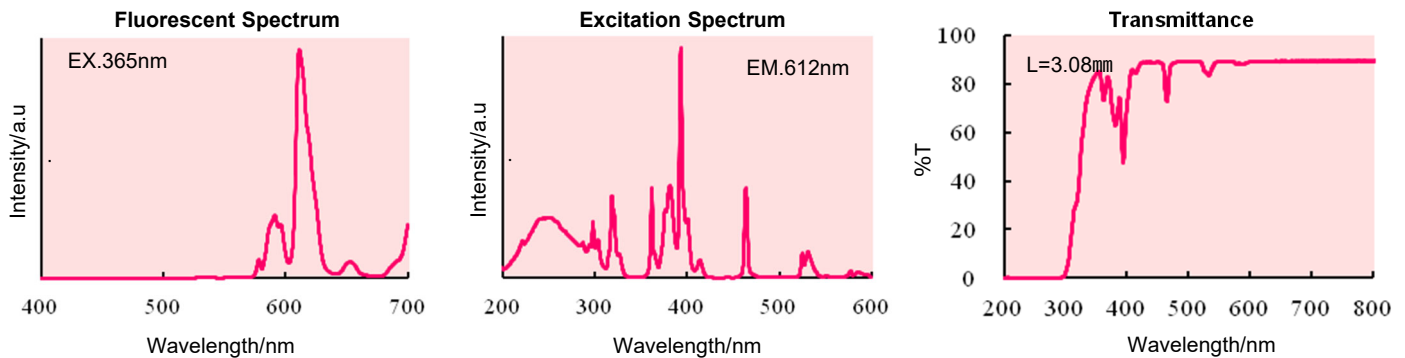


UV to Visible Light Converter Fluorescent Glass **LUMILASS**

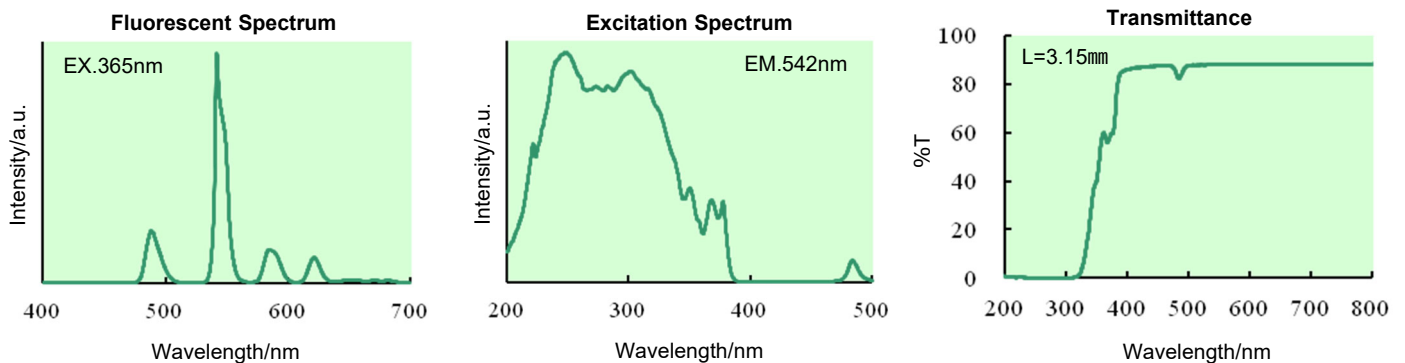
- Lumilass can convert a faint UV source of 200 – 400 nm light into visible spectrum in high efficiency.
- Since a large amount of luminous ions are contained, Lumilass has high sensitivity that allows for visible light detection.
- Lumilass has excellent machinability, so it can be processed in various forms.
- Superior durability and water resistance.
- Lumilass keeps high performance after long-hours irradiation with ultraviolet (UV) light.



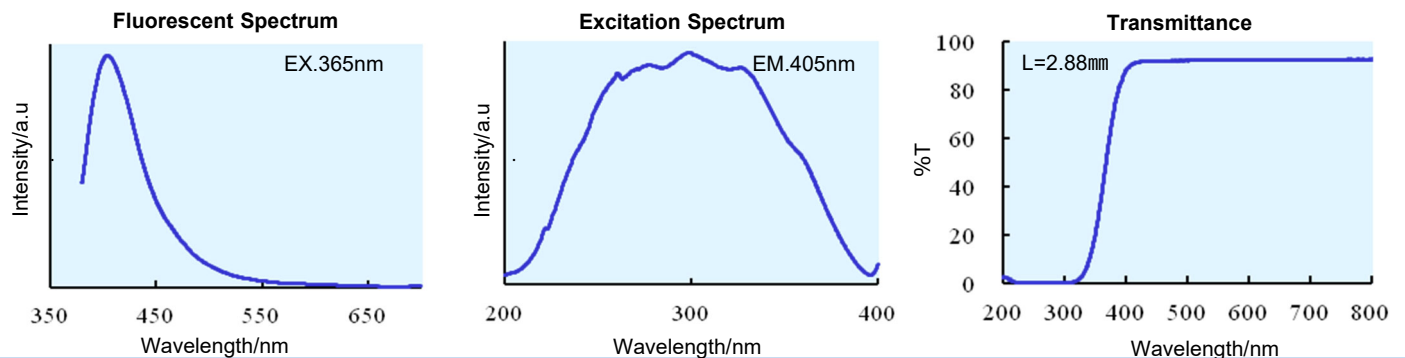
◆ LUMILASS-R7 (Red Fluorescent Glass)



◆ LUMILASS-G9 (Green Fluorescent Glass)



◆ LUMILASS-B (Blue Fluorescent Glass)



◆ Optical Properties

| | Lumilass-R7 | Lumilass-G9 | Lumilass-B |
|---|-------------|-------------|------------|
| Peak emission wavelength (nm) | 610 | 540 | 405 |
| Excitation wavelength range (nm) | 200 - 420 | 140 - 390 | 140 - 400 |
| Min. excitation sensitivity ($\mu\text{W}/\text{cm}^2$) | ~1 | ~1 | ~1 |
| Refractive index (nd) | 1.644 | 1.694 | 1.477 |

◆ Thermal and Machinery Properties

| | Lumilass-R7 | Lumilass-G9 | Lumilass-B |
|---|-------------|-------------|------------|
| Transformation point Tg (°C) | 594 | 660 | 398 |
| Thermal expansion ($\alpha \times 10^{-7}$) | 86 | 73 | 176 |
| Specific gravity (S.g) | 3.77 | 3.76 | 3.65 |
| Vickers hardness (Hv) | 633 | 765 | 344 |
| Young's modulus E ($\times 10^8 \text{N}/\text{m}^2$) | 900 | 1140 | 650 |
| Modulus of rigidity G ($\times 10^8 \text{N}/\text{m}^2$) | 340 | 440 | 250 |

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