

# Product Data Sheet

## 50107 Lumilux<sup>®</sup> green SN-F2Y

Main use	Long afterglow products according to DIN 67510 part 4
Useable for	Solvent-based paints and inks, thermoplastics, thermosetting plastics
Law / regulation	European norm EN 71-3: Safety of toys - Part 3: Migration of certain elements

### Typical chemical properties

Composition	alkaline earth aluminate
Insoluble in	alkalies, organic solvents
Decomposition by	water, acids

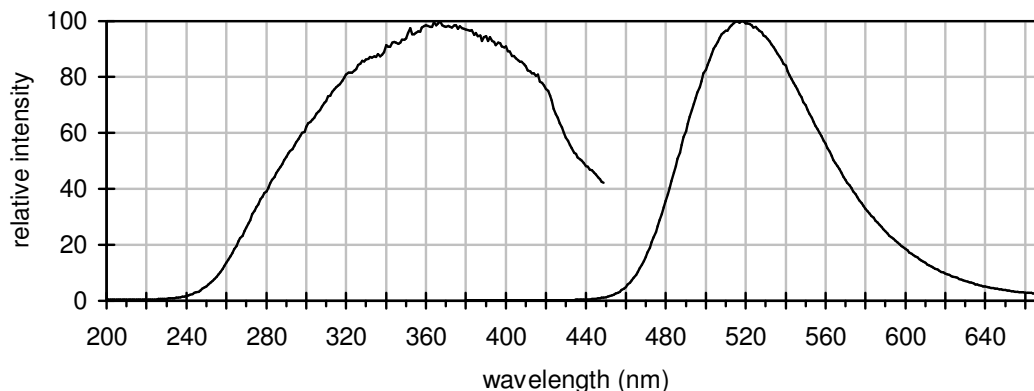
### Typical physical properties

Appearance	yellow-green powder
Specific gravity	3.4 g/cm <sup>3</sup>
Particle size distribution	d <sub>50</sub> = max. 28 µm as determined by COULTER Lasersizer 230
Screen analysis	max. 0.5 % oversized particles on 125 µm testing screen

### Typical luminescent properties

Excitation	white light, UV radiation
Color of fluorescence	green
Color of phosphorescence	green

### Typical excitation (left) and phosphorescence (right) spectra



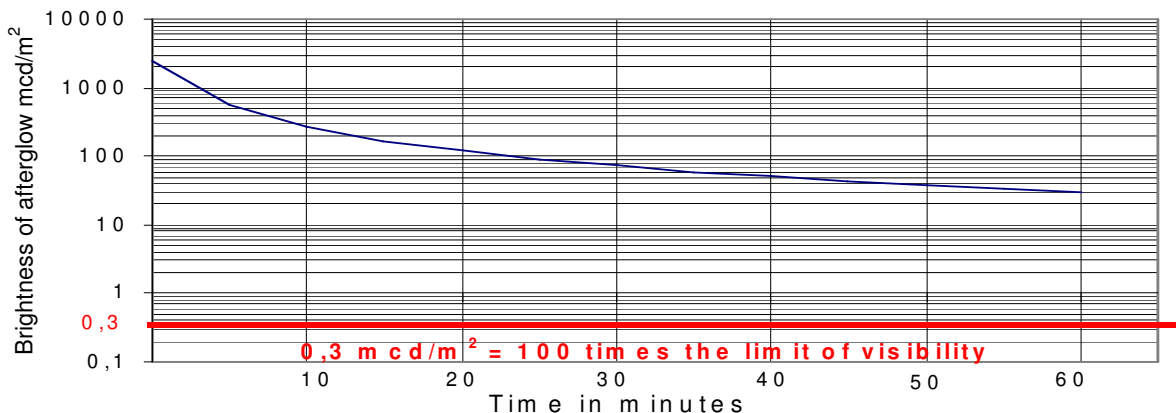
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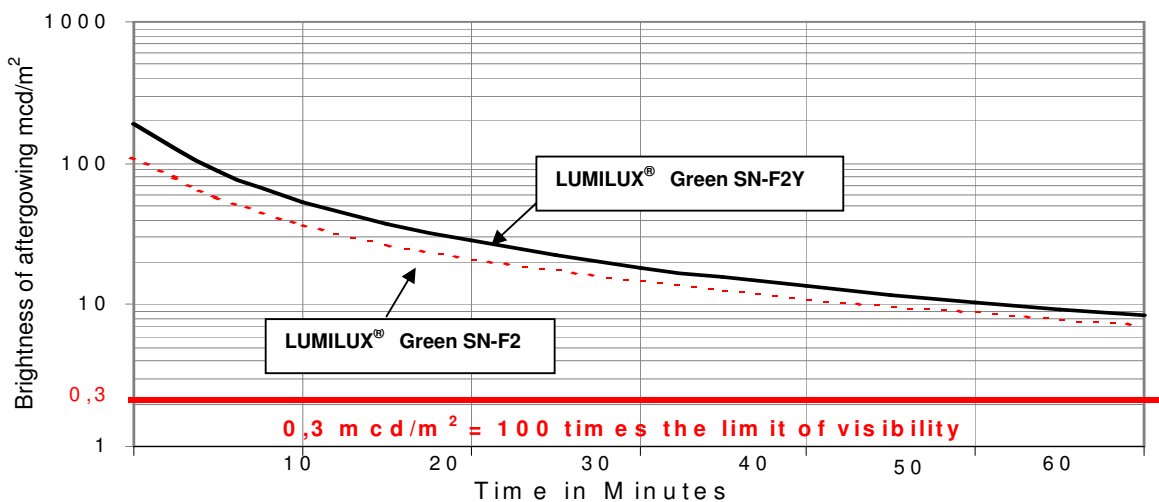
### Typical after glow figure from phosphor powder

Reference criterion to DIN 67510  
as determined by part 1

260/25-1700



### Typical after glow figure from a coated phosphor layer on a white substrate by use of 200 g/m² phosphor loading



Excitation 15 minutes / 25 Lux  
Color of light 840 (white)

Brightness of afterglow	<b>Green SN-F2Y</b>	<b>Green SN-F2</b>	
	89 mcd/m <sup>2</sup>	58 mcd/m <sup>2</sup>	after 5 minutes
	53 mcd/m <sup>2</sup>	37 mcd/m <sup>2</sup>	after 10 minutes
	8 mcd/m <sup>2</sup>	7 mcd/m <sup>2</sup>	after 60 minutes