

Product Data Sheet

50000 Lumilux® effect green N

Main use	Afterglow plastic sheets and paints for optical effects
Useable for	Solvent-based paints and inks, water-based paints, thermoplastics, thermosetting plastics, enamel, ceramics
Law / regulation	European norm EN 71-3: Safety of toys - Part 3: Migration of certain elements

Typical chemical properties

Composition	ZnS:Cu
Insoluble in	water, alkalies, organic solvents
Decomposition by	acids
pH-value of a waterbased slurry	min. 11

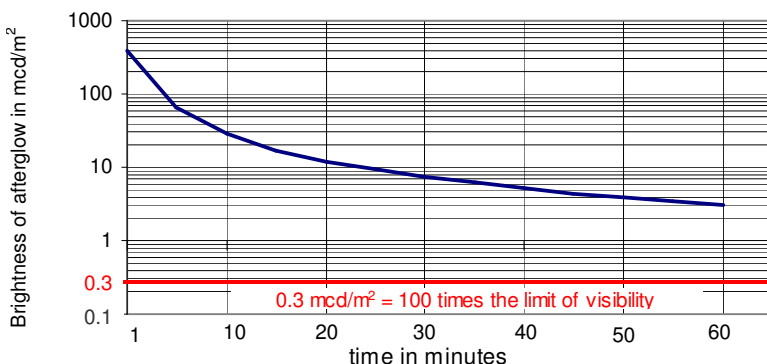
Typical physical properties

Appearance	yellow-green powder
Specific gravity	4.1 g/cm ³
Particle size distribution	d ₅₀ < 46 µm as determined by COULTER Lasersizer 230
Screen analysis	max. 1 % oversized particles on 125 µm testing screen

Typical luminescent properties

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

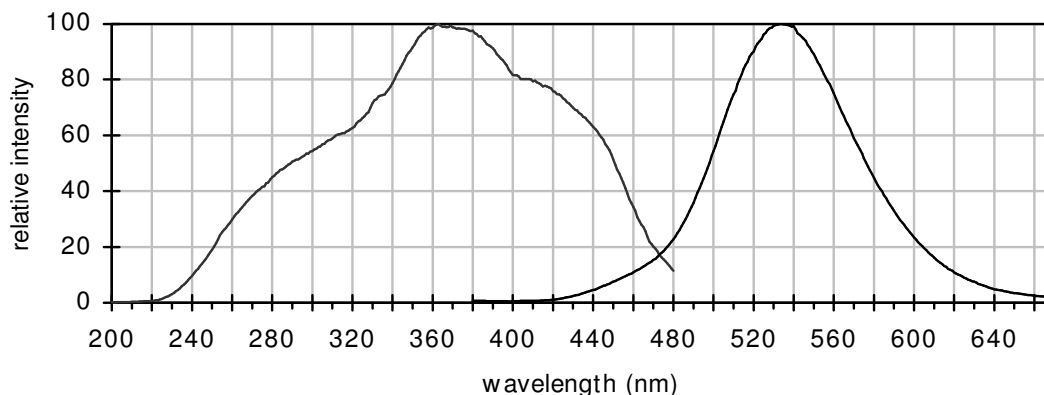
Typical decay curve



Typical intensity of afterglow according to the German norm DIN 67510-1: Photoluminescent pigments and products - Part 1: Measurement and marking at the producer

after 2 minutes	190 mcd/m ²
after 5 minutes	66 mcd/m ²
after 10 minutes	28 mcd/m ²
after 30 minutes	7.3 mcd/m ²
after 60 minutes	3.1 mcd/m ²

Typical excitation (left) and phosphorescence (right) spectra



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