

Product Data Sheet

50026 Lumilux[®] Effect Green N-L

www.honeywell-lumilux.com

Main use Afterglow plastic sheets
 Useable for Solvent-based paints and inks, water-based paints, thermoplastics, thermosetting plastics, enamel, ceramics

Typical chemical properties

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

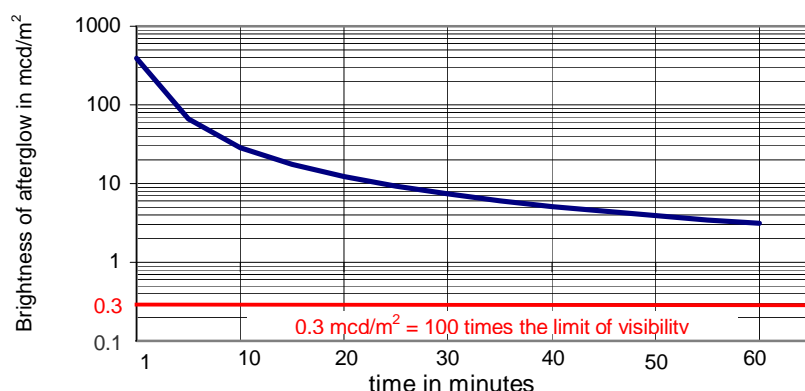
Typical physical properties

Appearance	yellow-green powder
Specific gravity	4.1 g/cm ³
Particle size distribution	d ₅₀ = 36 μm ± 3 μm as determined by COULTER Lasersizer 230

Typical luminescent properties

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

Typical decay curve

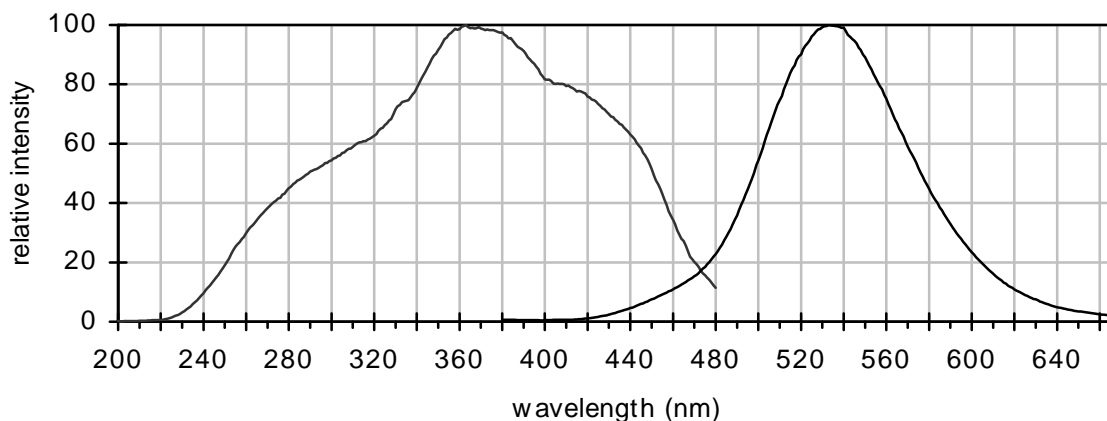


Typical intensity of afterglow according to the German norm DIN 67510-1:

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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Remark

Arsenic	As	max.	1	ppm
Barium	Ba	max.	10	ppm
Cadmium	Cd	max.	20	ppm
Chromium	Cr	max.	10	ppm
Mercury	Hg	max.	0.5	ppm
Lead	Pb	max.	20	ppm
Antimony	Sb	max.	10	ppm
Selenium	Se	max.	5	ppm
Cobalt	Co	max.	3	ppm
Fluoride	F	max.	200	ppm
Bromide	Br	max.	200	ppm
Chloride	Cl	max.	0.2	%
Zinc	Zn	max.	0.2	% soluble part in HCl (0.1 mol)