

## Product Data Sheet 50000 Lumilux<sup>®</sup> effect green N

[www.honeywell.com/sm/lumilux/](http://www.honeywell.com/sm/lumilux/)

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, alkalis, organic solvents
Decomposition by	acids
pH-value of a waterbased slurry	min. 11

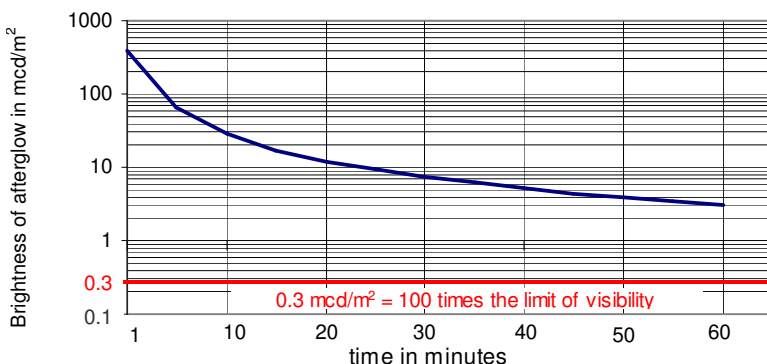
### Typical physical properties

Appearance	yellow-green powder
Specific gravity	4.1 g/cm <sup>3</sup>
Particle size distribution	d <sub>50</sub> < 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

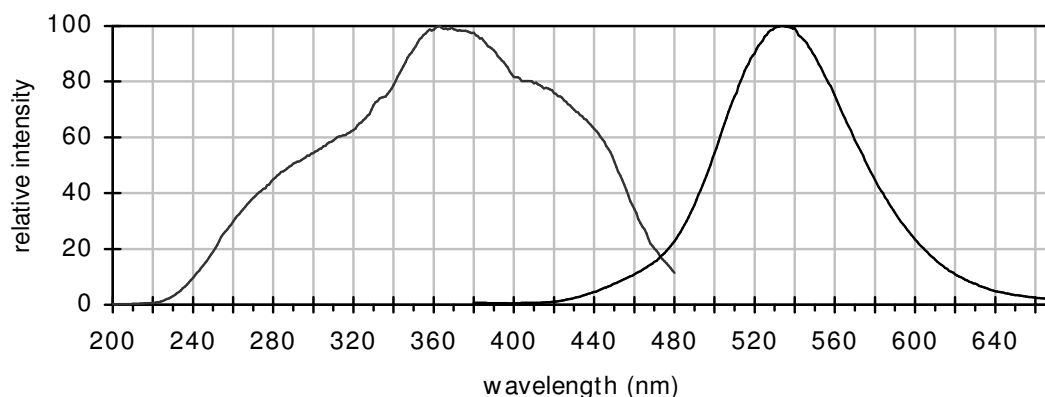
### Typical decay curve



### 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 <sup>2</sup>
after 5 minutes	66 mcd/m <sup>2</sup>
after 10 minutes	28 mcd/m <sup>2</sup>
after 30 minutes	7.3 mcd/m <sup>2</sup>
after 60 minutes	3.1 mcd/m <sup>2</sup>

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



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