

## Product Data Sheet 50000 Lumilux® 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

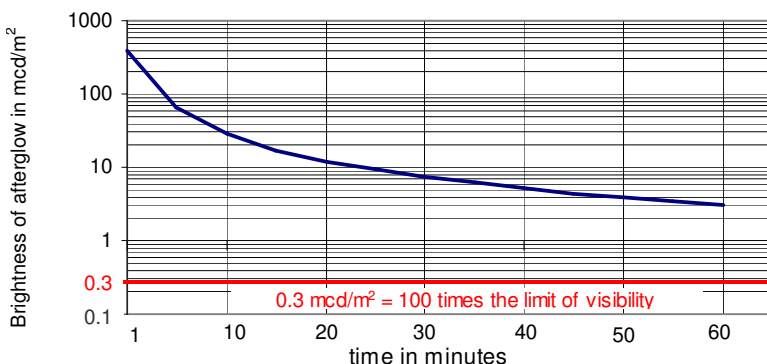
### Typical physical properties

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

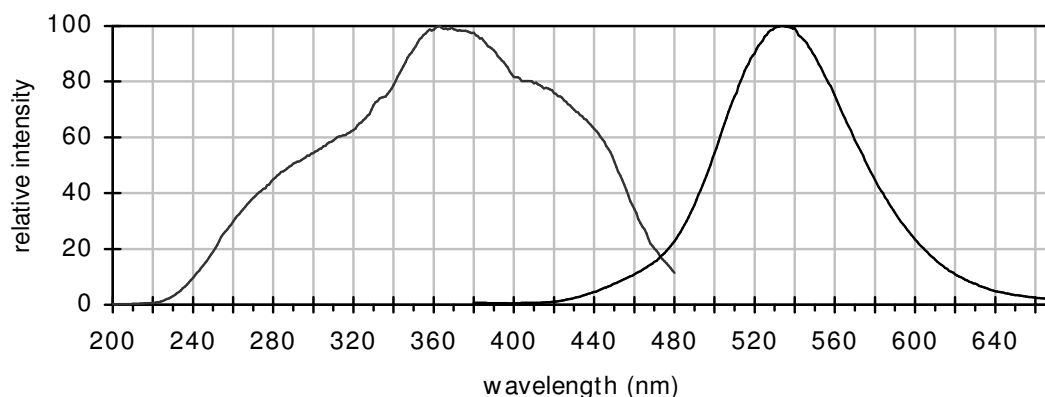
### Typical decay curve



### 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



Lumilux® is a registered trademark of Honeywell International Inc.

Disclaimer: Although all statements and information in this Product Data Sheet are believed to be accurate and reliable, they are presented without guarantee or warranty of any kind, express or implied, and risks and liability for results obtained by use of the products or application of the suggestions described are assumed by the user. Statements or suggestions concerning possible use of the products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that toxicity data and safety measures are indicated or that other measures may not be required. Further information concerning safe handling procedures can be obtained at <http://www.honeywell.com/sites/sm/lumilux/> or by contacting Honeywell.