

## Product Data Sheet 50037 Lumilux® Effect Red N

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

Main use	Afterglow plastic sheets, paints, injection moulding
Useable for	Solvent-based paints and inks, thermoplastics, thermosetting plastics
Processing remarks	Do not use Lumilux® effect red N in water-based or acid systems or formulations. In applications with waterfree printing paint it is important to achieve poreless films.
Regulations	European standard EN 71-3: Safety of toys - Part 3: Migration of certain elements

### Typical chemical properties

Composition	CaS:Eu,Tm
Insoluble in	alkalies
Decomposition by	acids, water
pH-value of a waterbased slurry	12

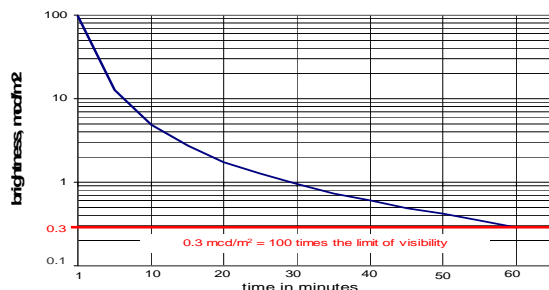
### Typical physical properties

Appearance	pink powder
Specific gravity	2.5 g/cm <sup>3</sup>
Particle size	d <sub>50</sub> < 40 µm determined by COULTER® LS™ 230 (Lasersizer)
Screen analysis	max. 0.5 % oversized particles on 100 µm testing screen

### Typical luminescent properties

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

### Typical decay curve

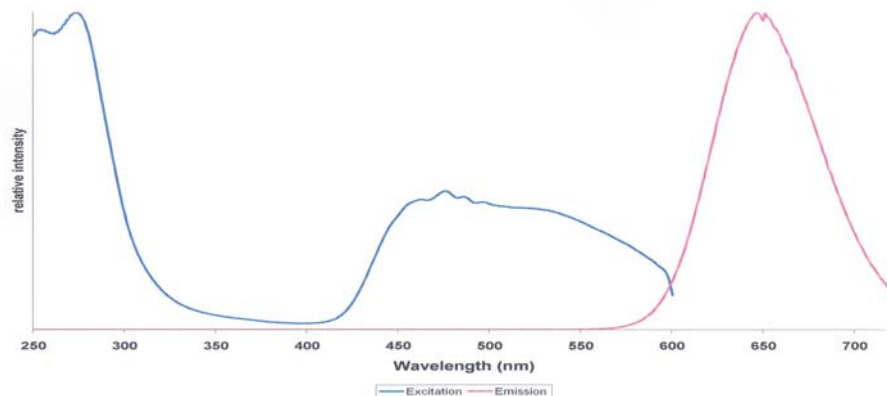


### Typical intensity of afterglow according to the German standard DIN 67510-1:

Photoluminescent pigments and products - Part 1:  
 Measurement and marking at the producer

after 2 minutes	41	mcd/m <sup>2</sup>
after 5 minutes	12.5	mcd/m <sup>2</sup>
after 10 minutes	4.8	mcd/m <sup>2</sup>
after 30 minutes	1	mcd/m <sup>2</sup>
after 60 minutes	0.3	mcd/m <sup>2</sup>

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



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