

Product Data Sheet

50037 Lumilux® Effect Red N

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

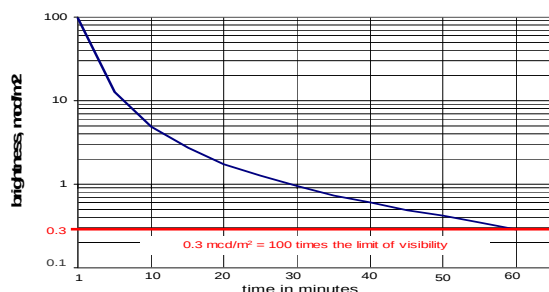
Typical physical properties

Appearance	pink powder
Specific gravity	2.5 g/cm ³
Particle size	d ₅₀ < 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



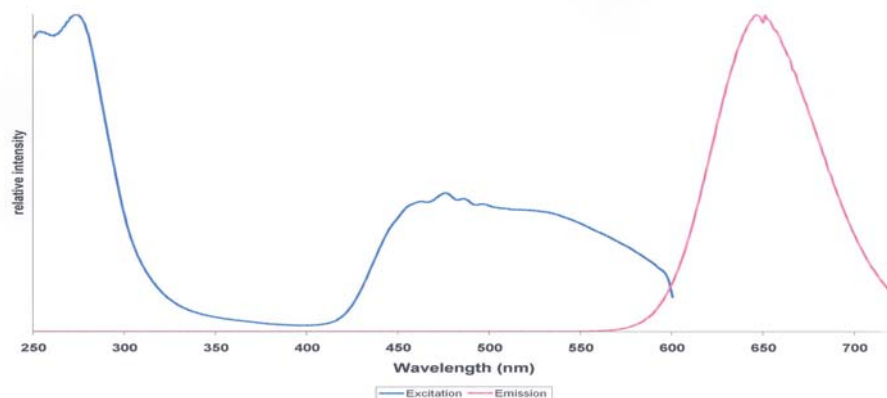
Typical intensity of afterglow according to the German standard DIN 67510-1:

Photoluminescent pigments and products - Part 1:

Measurement and marking at the producer

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

Typical excitation (left) and phosphorescence (right) spectra



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