

Product Data Sheet 50077 Lumilux[®] MB Green SN

www.honeywell-lumilux.com

Main use Long afterglow products according to DIN 67510 part 4
 Useable for For injection moulding or extrusion of plastics

Typical chemical properties

Composition ca. 60 % Alkaline earth aluminate + 40 % special wax

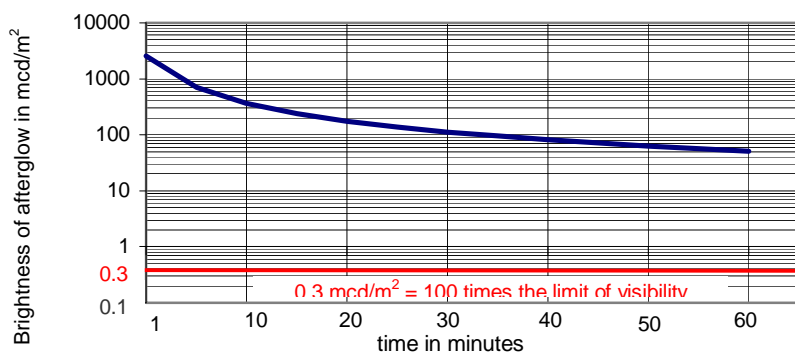
Typical physical properties

Product character granular material
 Appearance yellow-green
 Melting range 120 - 150 °C
 Bulk density 0.6 kg/l

Typical luminescent properties

Excitation UV radiation, white light
 Color of fluorescence green
 Color of phosphorescence green
 Reference criterion to DIN 67510 min. 290/40-3500-W-K
 as determined by part 1

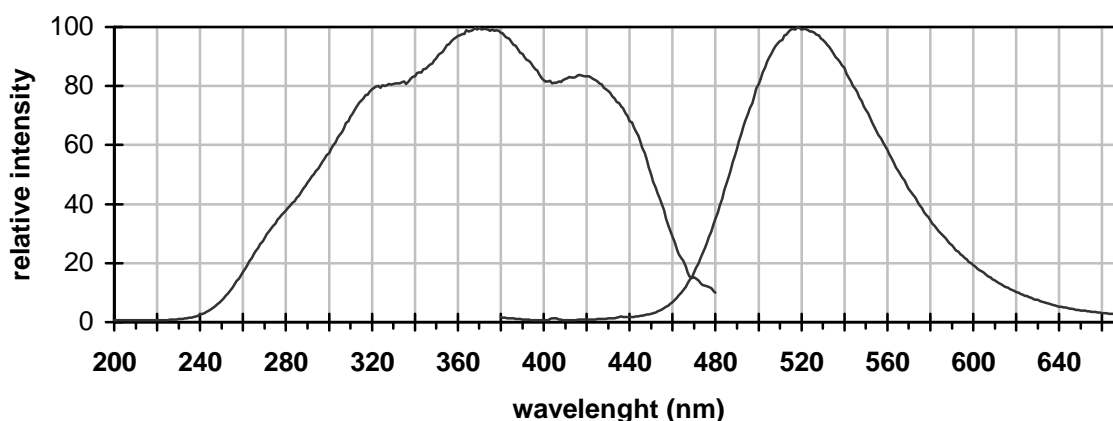
Typical decay curve



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 10 minutes 290 mcd/m²
 after 60 minutes 40 mcd/m²

Typical excitation (left) and phosphorescence (right) spectra



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Heavy metals content in pigment		Permitted by DIN EN 71-3 : 1994 (with the exception of modelling clay and finger paint) soluble in 0,07 mol/l HCl
Arsenic	max. 10 ppm	max. 25 ppm
Barium	max. 1000 ppm	max. 1000 ppm
Chromium	max. 20 ppm	max. 60 ppm
Cadmium	max. 20 ppm	max. 75 ppm
Lead	max. 90 ppm	max. 90 ppm
Antimony	max. 20 ppm	max. 60 ppm
Selenium	max. 50 ppm	max. 500 ppm
Mercury	max. 10 ppm	max. 60 ppm

Remark

This wax granular is excellent compatible with nonpolar and also polar plastics.

Processing remarks

The Lumilux[®] MB green SN is very sensitive against shear stress during processing. Therefore high shear rates, which may be caused by the equipment used (e.g. screws with mixing parts), should be avoided.

To achieve a homogeneous distribution of the Lumilux[®] long afterglow pigment in the carrier material we recommend a continuous feeding of the raw material by gravimetric dosage equipment.