

Glow Pigment

Introduction of Glow pigments

Photoluminescent pigment is also known as a long-lasting photoluminescent pigment, luminous pigment, luminescent pigment, phosphorescent pigment, glow pigment, glow in the dark pigment.



Glow pigment in the daytime



Glow pigment in dark

Types of glow pigments

There are 2 types of glow pigment: one is an alkaline earth aluminate-based long afterglow photoluminescent material activated by rare earth elements, and the other is traditional sulfide-based photoluminescent material. Particularly, the alkaline earth aluminate photoluminescent material can absorb various visible light which wavelength less than 450nm for 10-20 minutes and then emit light continuously for over 12 hours in the dark. The luminosity and its glow time are 30 times more than traditional luminous materials represented by ZnS:Cu; and its light absorption, storage, and emission capabilities can be recycled.



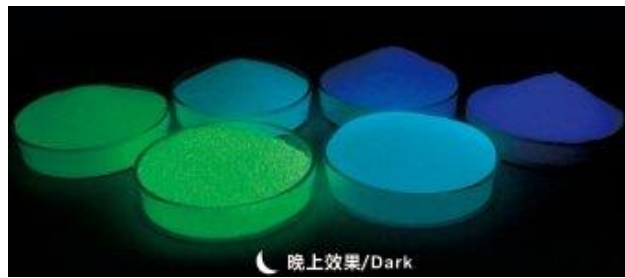
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photoluminescent pigment in daytime



photoluminescent pigment in dark

Features of baoxu photoluminescent pigments

1. Continuous light, reliable.
2. Non-toxic, non-harmful, non-radioactive
3. Recycle absorption and emission of light.
4. High luminance, long afterglow time.

Baoxu photoluminescent pigments

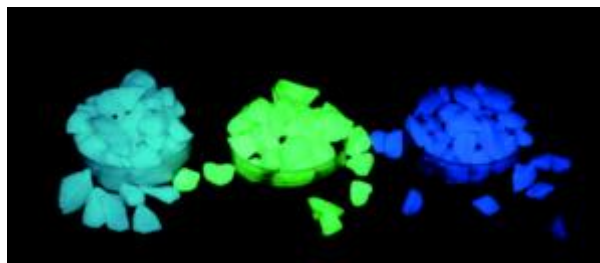
Composition: Alkaline earth aluminate or silicate with rare earth elements.

Features: High luminosity, long afterglow time

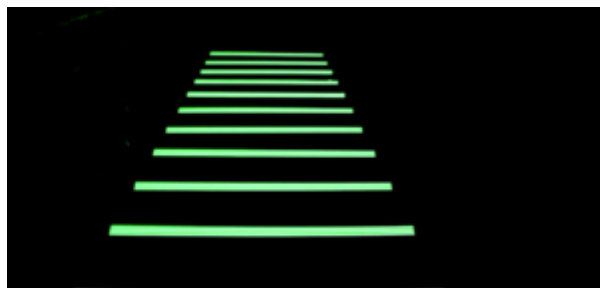
Appearance color: Light yellow, grayish white, and light gray

Glow Color: Yellow-green, blue-green, sky-blue, and purple

Application: coating, ink, paint, plastic, printing paste, fibers and others.



Glow in dark pigment in resin



photoluminescent pigment in paint

Industries: Fire safety signage, fishing equipment, toys, gifts, and others.

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glow pigment in safety signage application

Baoxu photoluminescent pigment series

Baoxu PLP L

PLP L series photoluminescent pigment is alkaline earth aluminate luminous material. These products can glow for more than 12 hours after absorbing various visible light or ultraviolet radiation. The luminance is 350-700mcd/m² and afterglow is more than 12 hours. The physical properties are as tabled below:

PRODUCTS	PLP LY	PLP LG	PLP LGR
Body Color	light yellow	light green	light gray
Emitting color	yellow green	blue green	blue purple
Composition	MeO·xAl ₂ O ₃ :Eu (Me=Ca、Mg、Sr; x=0.5-2.0)		
Excitation wavelength (nm)	200-450	250-450	250-400
Emission wavelength peak (nm)	520	490	440
Medium Particle size(μm)	1-100	1-100	20-40
Afterglow brightness (mcd/m ²)	100-600	100-500	10-20
Afterglow time	≥12 h	≥12 h	≥6 h
Light resistance	≥1000 h	≥1000 h	≥1000 h
Chemical stability	Excellent, small decomposed in water.		
Temperature resistance	Luminescent brightness is weakened along with the elevated temperature and extended time during 250-600℃		
Allowable temperature	≤250℃		
Density (g/cm ³)	3.6		

Baoxu PLP S

PLP S series photoluminescent pigment is alkaline earth silico-aluminate photoluminescent material, which combines the character of high afterglow luminance for alkaline earth aluminate photoluminescent material and rich in color for alkaline earth silicate photoluminescent material. These products can glow for more than 12 hours after absorbing various visible light or ultraviolet radiation. The luminous pigment has excellent stability and weatherability. The features of PLP S series glow pigment are 220-550mcd/m² in luminance and more than 12 hours long afterglow time and rich in color, the physical properties are as tabled below:

PRODUCTS	BX PLP S series
Body Color	light green to yellow-green
Emitting color	yellow green
Composition	MeO·xAl ₂ O ₃ ·ySiO ₂ : Eu (Me=Ca、Mg、Sr、Ba; x=0.5-2.0; y=0.01-0.5)
Excitation wavelength (nm)	200-450
Emission wavelength peak (nm)	520
Medium Particle size (μm)	1-100
Afterglow brightness (mcd/m ²)	40-400
Afterglow time	≥10h
Light resistance	≥1000h
Chemical stability	Excellent, small decomposed in water
Temperature tolerance	Luminescent brightness is weakened along with the elevated temperature and extended time during 250-600℃
Allowable temperature	≅ 250℃
Density (g/cm ³)	3.6

Remark

- (1)The unit of particle size is μm. The particle size is expressed by Medium Particle size (D50).
- (2)The unit of afterglow brightness is mcd/m². All the tests are executed according to the standard of DIN67510, which is to detect the afterglow brightness of the sample for 10 min excited by D65 standard light source illumination of 1000LX for 5 min.

Sample and Inquiry

Please contact our online sales or mail at info@additivesforpolymer.com for a sample and general inquiries.