



Glow the world

GLOW IN THE DARK PIGMENT

Technical Data Sheet

GLOW IN THE DARK PIGMENT, also called Photoluminescent Pigment, is one kind of powder that absorbs light and slowly releases the energy in the form of light over time. TNN Glow in the Dark pigment is made from strontium Aluminate, which is latest generation of phosphors that can glow for a couple of hours after short expose to light.

Our Features

1. 10 times glow intensity and after-glow time of traditional ZnS based pigment.
2. Excitable by UV and all visible light
3. Ecofriendly, Non-toxicity, non-radioactivity, harmless to human body, fulfil EN 71 standard
4. UV-resistant, weather-resistant, suitable for both indoor and outdoor use
5. Repeatable using without significant reduction of luminescence properties

Chemical properties

Grade	YG-S40
Composition	$\text{SrAl}_2\text{O}_4:\text{Eu, Dy}$
Insoluble in	organic solvents
Decomposition by	Strong acids, strong alkalines, water
Fastness to heat	-40~500°C



Physical properties

Appearance	Yellowish crystal powder
Specific gravity	3.6g/cm ³
Bulk Density	1.21g/cm ³
Particle size	D50 = 40±5 µm

Phosphorescent Properties (Standard values)

Glow Color	Yellow green
Excitation	all visible light and UV light
Emission Peak Wavelength	520±2nm

2 min	10 min	20 min	30 min	60 min
1753	385	183	117	52

Tested according to DIN 67 510

Measurement methods and procedures

Measurement condition: Room Temperature: 23±2 °C, relative humidity: 50±5%.

Put sample in dark for 24 hours prior to testing. Expose the sample under 1000lx-D65 light source for 5 minutes, turn off the light and test the sample's afterglow luminance at 2min, 10min, 30min, 60min