Phosphorescent Pigments

Phosphorescent Pigments

Phosphorescent pigments store sunlight and light from lighting, and gradually release light energy (luminescence) even when there is no light.

The main components of phosphorescent pigments are zinc sulfide, which has been used for a long time, and strontium aluminate, which has been used recently. Although zinc sulfide pigments have a short afterglow time and low brightness, they are still used in toys because they are inexpensive.

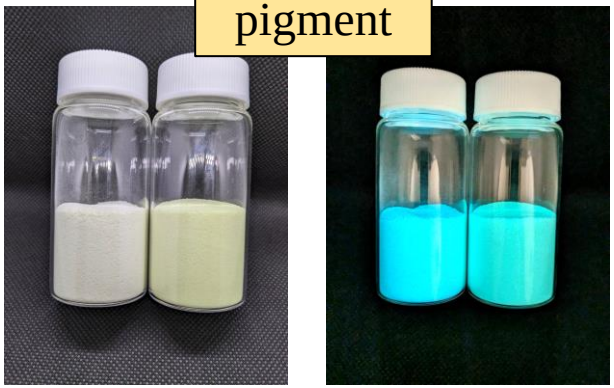
Our phosphorescent pigments are produced using a unique manufacturing method.

in bright place

in dark place

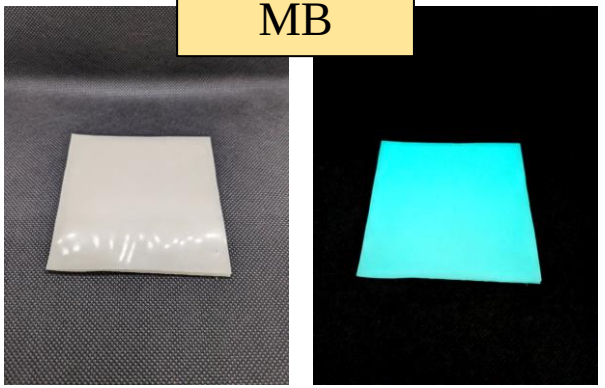
Sales Product (under development)

pigment



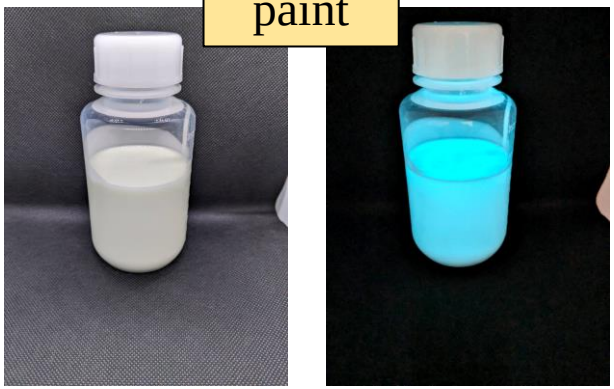
Resin kneading

MB



Into paste

paint



Weaving

rope

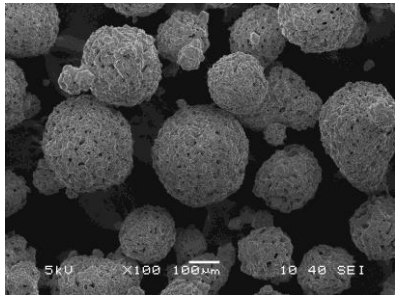
Phosphorescent Pigments

in bright place
(left：BG、right：YG)

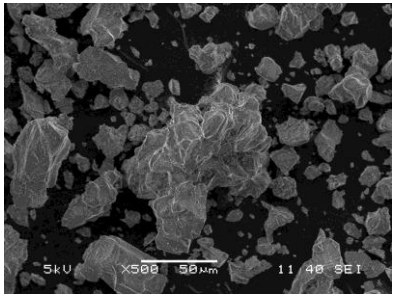
in dark place
(left：BG、right：YG)

characteristics

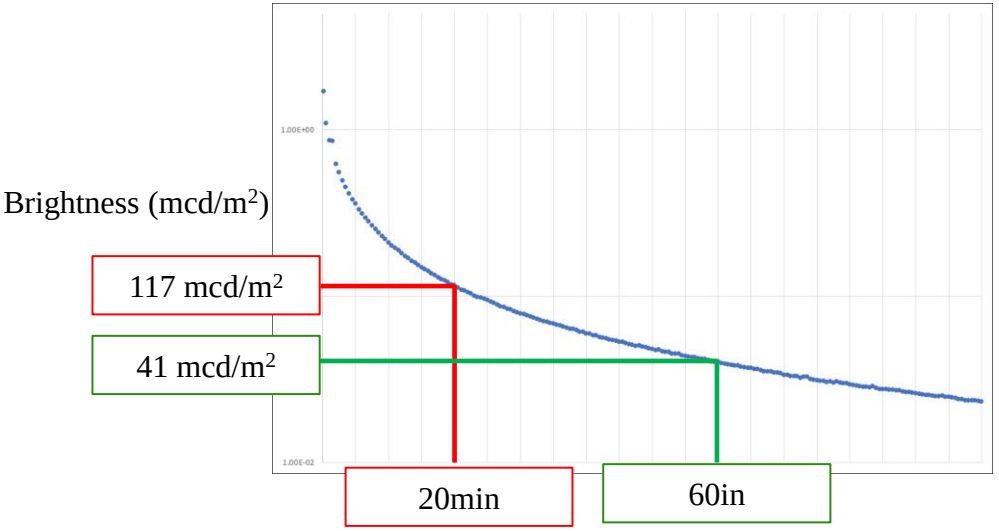
- spherical particles　particle size 150 μm
- easy to crush　after crushed particle size 10～20μm
- high brightness



Before crushing SEM



After crushing SEM



Phosphorescent paint

Phosphorescent coating material

Can be painted on resin products, ceramics, film, etc.
Select the paint according to the purpose.

☆Types of phosphorescent paint

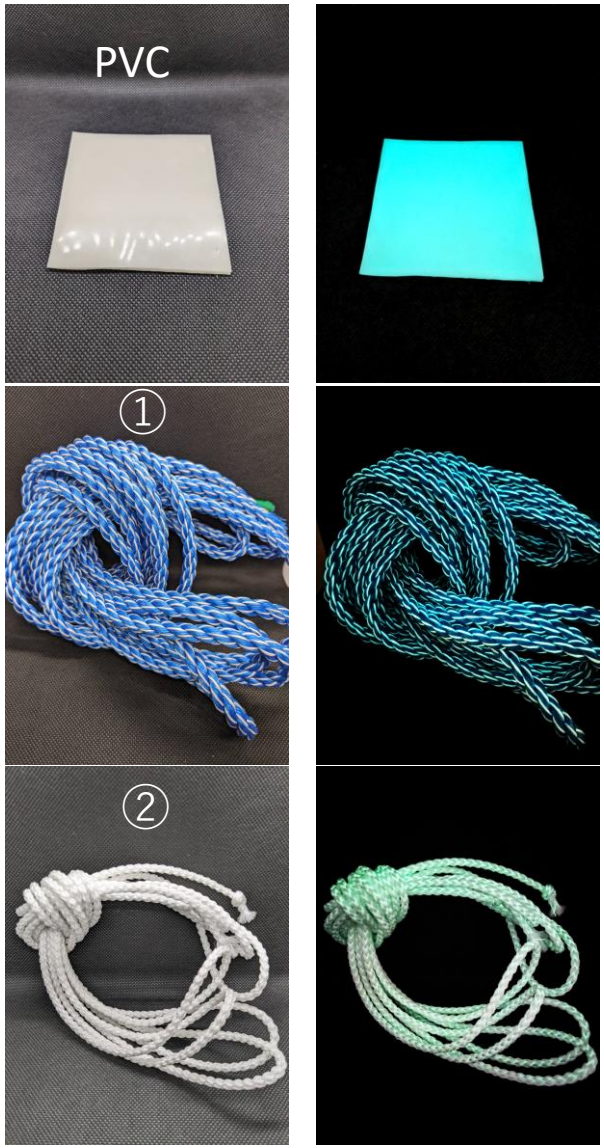
* organic solvent paint
* water based paint
* traffic paint

Example of construction

☆Red marks area are painted with phosphorescent.
（Blue marks area are only white line.）

White line isn’t visible at night, but phosphorescent line can be clearly seen.

Resin product



Resin kneading

It can be kneaded into resin and made into a masterbatch.The higher the pigment concentration, the higher the brightness.

☆Achievement;

* **polypropylene;**PP
* **polyethylene;**PE
* **polyvinylchloride;**PVC

Rope

It is made into rope by weaving filose resin.
The price is kept down by combining it with regular strings.

Rope of material：PP

① （Blue strings＋Phosphorescent strings）
② （White strings＋ Phosphorescent strings ）