

Technical Data Sheet

NightGlo NG-880 Phosphorescent Pigment

General description

NG-880 is a zinc sulfide compound that responds quickly to excitation by daylight, incandescent, fluorescent or ultraviolet lights.

The pigment emits a bright green phosphorescence shade with high initial brightness and afterglow – the effect of which depends on pigment concentration, surface area and amount of radiant energy absorbed.

NightGlo NG-880 can also be mixed with certain transparent pigments or colorants, such as DayGlo fluorescent dyes and pigments. This combination can create some very attractive special effects.

Recommended loading is a 1 to 10 ratio of fluorescent to phosphorescent pigment.

Available Colors

Product Code	Color
NG-880	NightGlo

Packaging:

5 Gallon Pail = 55 lb (25kg)

Storage & shelf life:

120 months when kept in closed original packaging in a dry place at ambient temperature.

Safety & regulatory:

Safety Data Sheet available on request.

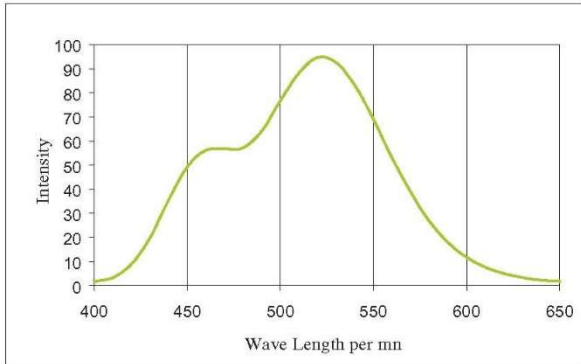
Applications

- Plastic resins – Acrylics, Nylons, Polystyrene, Polyolefins, Vinyl

Physical properties

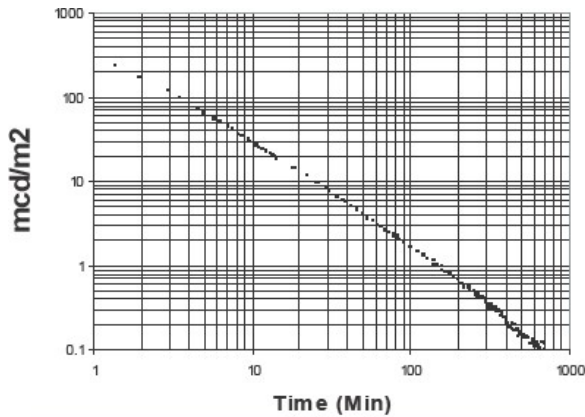
Delivery form	Powder
Emission color	Green
Afterglow color	Green
Daylight body color	Slightly Yellow
Specific gravity	4.1
Particle size	21 +/- 3 μ m
Melting point	1830 degrees C
Mohs hardness	3.0

Emission Spectrum



Persistence Curve

DIN67510, Part 1 (Xenon Excitation – 5 min. @ 1,000 Lux, 22°C ± 3°C)



10 min. (mcd/m ²)	60 min. (mcd/m ²)	Time to reach 0.32 mcd/m ²
≥26	≥2.5	≥280 min.

Handling

When handling phosphorescent pigment, some precautions should be taken when:

- Working with strong acids since this can cause dissolution of phosphorescent pigments. In the presence of high relative humidity and sunlight, phosphorescent pigments can exhibit darkening.
- It is not recommended to mill this product since this will degrade the phosphorescence due to breakdown of the crystal structure of the phosphorescent pigment. Mild stirring should be used to incorporate NG-880 into a vehicle.

The addition of colorless extenders or colored pigments will reduce the intensity of the phosphorescence. Testing is recommended in the intended application to determine suitability.

Recommended concentration is approximately 10% by weight.