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TECHNICAL DATA SHEET

Article Designation

Photoluminescent Pigment

Article No.

Night Glow G1

Product Group

Inorganic Photoluminescent Pigment for visible effects

Main use

After glowing Plastic Sheets, Silk Screen Printing Inks, Paints, Textile Pastes etc.

Typical Chemical Properties

Composition

Alkaline earth aluminosilicate

Formula

$\text{MeO} \cdot x\text{Al}_2\text{O}_3 \cdot y\text{SiO}_2 : \text{Eu}$

(Me=Ca,Mg,Sr,Ba:x=0.8~1.5,
y=0.01~1.0)

Insoluble in

Organic solvents

Decomposition by

Acids, water, alkalis

Typical Physical Properties

Appearance

Yellowish

Specific gravity

3.4g/cm³

Average Particle Size

As determined by Micromeritics Sedigraph

$d_{50}=20\mu\text{m}$

Temperature resistance

250°C

Typical Luminescent Properties

Excitation

UV radiation, white light (any visible light)

Excitation wavelength

200~450nm

Peak value

520nm

Glowing Color

yellow green

Brightness of afterglow

>10 hours

According to DIN67510, Part1

Brightness testing report

	Night Glow G1
Time (Minute)	Brightness(mcd/m ²)
0	7055
1	1154
5	323
10	188
20	84
30	52
40	38
50	29
60	22

Standard at 10min	≥ 180
Average Particle Size(um)	15-25

Note:

Brightness of the pigment of different production batch will be little different, but we guarantee the product accords with our quality standard.

OP Medium for Night Glow Paint

OP Medium is a clear medium which has excellent non-yellowing properties and offers very good adhesion to several substrates such as paper, board, wood, concrete, several metals, acrylic, vinyl etc.

Color : Water White

Thinners : Xylene, CIX, Toluene, most Ketones and Ester solvents.

Specific Gravity : 0.9 (Approx)

Viscosity (For Cup) : More than 20 seconds

Solids : 30% (Approx)

Applications include top coat for Paints and Inks. Also it is used with Night Glow pigments for making Night Glow Paints/ Coating/ Screen Printing Inks i.e. Night glow pigment 50-60 parts and OP Medium 40-50 parts.

Night Glow pigments have the property of absorbing light and emitting the same in darkness, which appears as a glow. This diminishes gradually over a duration which depends upon the quality of pigment, intensity and duration of light exposed, loading (%) of pigment in formulation, thickness of coat, ground (white is recommended) etc. Keep away from heat and fire.

Disclaimer: It is strongly recommended to test our product in the desired applications, before final production. The above information is true to the best of our knowledge. We shall however, not be responsible for any loss, injury or damage that may result from the use of this information.