Item
Product Description: Photoluminescent pigment
Model: BG-B2

Application Scopes
Screen printing ink, brush/roller paint, dip plastic coating, casting plastic, silicone rubber molding, etc.

Typical chemical properties
Composition: Strontium Aluminate doped with Europium Dysprosium oxides.
Insoluble in: organic solvents, water
Decomposition by: Strong acids, strong alkalines
Fastness to heat: -40~850 °C

Typical physical properties
Appearance: Yellowish crystal powder
Specific gravity: 3.6g/cm³
Bulk Density: 1.21g/cm³
Particle size distribution: 100~120um. 100% passing 100mesh.

Typical luminescent properties
Excitation: all visible light and UV light (250~450nm better)
Glow Color: Blue green (Emitting light Wavelength Peak: 490±2nm)
Afterglow Intensity after:
- 10min: >650 mcd/m²
- 60min: >84.0 mcd/m²
- 600min: >5.55 mcd/m²

Afterglow intensity(to 0.32mcd/m²): >6720min under norm DIN67 510

Typical luminance data

<table>
<thead>
<tr>
<th>Time</th>
<th>10&quot;</th>
<th>1'</th>
<th>2'</th>
<th>3'</th>
<th>4'</th>
<th>5'</th>
<th>10'</th>
<th>15'</th>
<th>20'</th>
<th>30'</th>
<th>40'</th>
<th>50'</th>
<th>60'</th>
<th>90'</th>
<th>120'</th>
<th>180'</th>
<th>300'</th>
<th>600'</th>
</tr>
</thead>
<tbody>
<tr>
<td>mcd/m²</td>
<td>8110</td>
<td>4006</td>
<td>2660</td>
<td>2002</td>
<td>1613</td>
<td>1356</td>
<td>734</td>
<td>487</td>
<td>356</td>
<td>221</td>
<td>154</td>
<td>117</td>
<td>92.6</td>
<td>54.7</td>
<td>37.5</td>
<td>21.8</td>
<td>11.7</td>
<td>6.72</td>
</tr>
</tbody>
</table>
## Luminance Test Methods

Under Norm DIN67510-1:2009

Put sample in opaque container for 24hrs, Temperature: 23±2°C, expose the sample under 1000lx-D65 light source for 5', then turn off the light and test the sample's afterglow luminance at 2', 10', 30', and 60'.

## Luminance Test Instruments

<table>
<thead>
<tr>
<th>Instruments</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>○ Charging Light Source</td>
<td>D65 Xenon Lamp</td>
</tr>
<tr>
<td>○ Charging Lamp Model</td>
<td>Toshiba FL20S.D-EDL-D65</td>
</tr>
<tr>
<td>○ Test Instruments Model</td>
<td>Luminance Meter: Konica Minolta LS-150, Illuminance Meter: Konica Minolta T-10A</td>
</tr>
</tbody>
</table>

## Lifespan:

> 15 years under well packing condition.

## Safety:


## Other data:

1. Using Condition (recommended): With all colorless, transparent medium, such as paint, coating, resin, etc.
2. Storage Condition: In cool, dry and ventilated place, with temperature -50–60°C
3. Packing: 25kgs / iron pail lined with plastic bags. G.W.: 26.6kgs, Dim: D31 x H34cm
4. Norm Complied: EN71-3, RoHS, DGM.