Item
Product Description       Photoluminescent pigment
Model                  BG-B3

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

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

Typical physical properties
Appearance                Yellowish crystal powder
Specific gravity          3.6g/cm3
Bulk Density              1.21g/cm3
Average particle size     35~45um. 100% passing 200mesh.

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       10min >310 mcd/m2
                          60min >45.0 mcd/m2
                          600min >2.55 mcd/m2
Afterglow intensity(to 0.32mcd/m2): >3820min under norm DIN67 510

Typical luminance data

| Time | 10°  | 1'   | 2'   | 3'   | 4'   | 5'   | 10'  | 15'  | 20'  | 30'  | 40'  | 50'  | 60'  | 90'  | 120' | 180' | 300' | 600' |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| mcd/m² | 7904 | 2601 | 1497 | 1059 | 827  | 678  | 346  | 234  | 173  | 110  | 79.7 | 61.4 | 49.4 | 30.3 | 21.3 | 12.9 | 6.72 | 2.72 |
Luminance Test Methods

Under Norm DIN67510-1:2009

Put sample in opaque container for 24hrs, Temperature: 23±2℃, 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

○ Charging Light Source
  D65 Xenon Lamp
○ Charging Lamp Model
  Toshiba FL20S.D-EDL-D65
○ Test Instruments Model
  Luminance Meter: Konica Minolta LS-150
  Illuminance Meter: Konica Minolta T-10A

Lifespan:  >15 years under well packing condition.

Safety:
1. Toxic: 2. Radioactive: NO.

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℃
3. Packing: 25kgs /iron pail lined with plastic bags. G.W.: 26.6kgs, Dim: D31 x H34cm
4. Norm Complied: EN71-3, RoHS, DGM.
5. Norm MEET: PSPA Class-E, JIS-Z9107 JC.
   IMO A.752(18), ISO 23601, UL924, ASTM E2030/E2072/E2073,
   ATPA SS-PS-002-98/SS-PS-004-99, BS 5499-1 2002, NYC Law 26