



# JOLIN CORPORATION

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## 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 dopped 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/cm <sup>3</sup>	
Bulk Density	1.21g/cm <sup>3</sup>	
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/m <sup>2</sup>
	60min	>84.0	mcd/m <sup>2</sup>
	600min	>5.55	mcd/m <sup>2</sup>

Afterglow intensity(to 0.32mcd/m<sup>2</sup>): >6720min 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/m <sup>2</sup>	8110	4006	2660	2002	1613	1356	734	487	356	221	154	117	92.6	54.7	37.5	21.8	11.7	6.72

Luminance Test Methods	<p>Under Norm DIN67510-1:2009</p> <p>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'.</p>
Luminance Test Instruments	<ul style="list-style-type: none"> <li>○ Charging Light Source D65 Xenon Lamp</li> <li>○ Charging Lamp Model Toshiba FL20S.D-EDL-D65</li> <li>○ Test Instruments Model Luminance Meter: Konica Minolta LS-150 Illuminance Meter: Konica Minolta T-10A</li> </ul>

**Lifespan:** >15years under well packing condition.

**Safety:**

1. Toxic: NO.

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°C
3. Packing: 25kgs /iron pail lined with plastic bags.  
G.W.: 26.6kgs, Dim: D31 x H34cm

- 20'Container FCL Q'ty: 11250kgs(palletized)
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