



# JOLIN CORPORATION

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## Item

Product Description      Photoluminescent pigment  
Model                        YG-D4

## Application Scopes

Brush/roller/spray paint indoors, screen printing, signs, injection plastic, extrusion/casting plastic, silicone rubber, toys and arts, etc.

## Typical chemical properties

Composition                Strontium Aluminate dopped with Europium Dysprosium oxides.  
Insoluble in                organic solvents  
Decomposition by        Strong acids, strong alkalines, water  
Fastness to heat         -40~500°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 25~35um.            100% passing 250mesh.

## Typical luminescent properties

Excitation                 all visible light and UV light (200~450nm better)  
Glow Color                 Yellow green (Emitting light Wavelength Peak: 520±2nm)  
Afterglow Intensity after 10min    >380            mcd/m<sup>2</sup>  
   60min        >50             mcd/m<sup>2</sup>  
   600min      >2.0            mcd/m<sup>2</sup>

Afterglow intensity(to 0.32mcd/m<sup>2</sup>): >5310min 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>	#####	2802	1624	1158	902	741	386	256	189	120	90	65	51	31	25	16	7.9	2.9

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:

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