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## Technical data sheet

### Item

Product Description: Photoluminescent pigment

Model: M-ZL140

### Application Scopes

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

### Typical chemical properties

Composition: Strontium Aluminate doped with Europium Dysprosium oxides.

Insoluble in organic solvents, water

Decomposition by: Strong acids, strong alkalines, water

Fastness to heat: -40~230C

### Typical physical properties

Appearance: green crystal powder

Specific gravity: 3.6g/cm<sup>3</sup>

Bulk Density: 1.21g/cm<sup>3</sup>

Particle size distribution: 35um-45um, 100%<74um.

Hardness in Mohs scale: 7,6

### Typical luminescent properties

Excitation all visible light and UV light (200~450nm better)

Glow Color: green

Afterglow Intensity after 10min >140 mcd/m<sup>2</sup>

60min >20 mcd/m<sup>2</sup>

600min >1 mcd/m<sup>2</sup>

Afterglow intensity(to 0.32mcd/m<sup>2</sup>): >1830min under norm DIN67 510

### Typical luminance data:

Czas	10"	1'	2'	3'	4'	5'	10'	15'	20'	30'	40'	50'	60'	90'	120'	180'	300'	600'
Mcd/m <sup>2</sup>	4044	1260	710	492	375	303	153	100	73,7	46,6	33,4	25,7	20,6	12,7	8,86	5,32	2,77	1,12

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

**Safety:**Toxic: No

Radioactive: No

### Other data:

- Using condition (recommended): With all colorless, transparent medium, such as paint, coating, resin, etc.
- Storage Condition: In cool, dry and ventilated place, with temperature -50~60C
- Packing: 100g, 500g, 1kg, 5kg – PE container; 25kgs /iron pail lined with plastic bags
- Norm Complied: EN71-3, RoHS, DGM, PSPA Class-D, JIS-Z9107 JD, 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.

Document has been made basing on supplier certificate.