











# Typical Data




## LumiNova series

	Emission color	Body color		Chemical composition	Excitation type	Particle size	Water resistance	Chemical stability
<b>G/GLL series</b>	Green	Light yellow	 	SrAl <sub>2</sub> O <sub>4</sub> :Eu,Dy	Standard/Quick excitation	2.5~160 μm	Treatment required	Excelent
<b>BG/BGL series</b>	Blue-green	Light yellow	 	Sr <sub>4</sub> Al <sub>14</sub> O <sub>25</sub> :Eu,Dy	Standard/Quick excitation	2.5~160 μm	Good	Excelent
<b>V-300</b>	Violet	White	 	CaAl <sub>2</sub> O <sub>4</sub> :Eu,Nd	Strong excitation	20 μm	Treatment required	Good
<b>BS-300</b>	Silicate blue	White	 	Sr <sub>2</sub> MgSi <sub>2</sub> O <sub>7</sub> :Eu,Dy	Standard	25 μm	Good	Good
<b>R-300</b>	Orange red	Yellowish white	 	Y <sub>2</sub> O <sub>2</sub> S:Eu, Mg,Ti	Standard	15 μm	Good	Good

## Other conventional pigments

※Water resistant treatment available

<b>GSS/GB-U</b>	Green	Light yellow	 	ZnS:Cu	Quick excitation	23/17 μm	Good	Low UV resistance
<b>GSO</b>	Orange	Light orange	 	ZnS:Cu,Mn,Co	Quick excitation	25 μm	Good	Low UV resistance
<b>RAS</b>	Red	Pink	 	CaS:Eu,Tm	Quick excitation	25 μm	Poor	Poor

## Particle types and suitable applications

### Typical excitation conditions

Conditions	Intensity	Equivalent environment
1000 lux	Very strong	Operation room, Large stores
400 lux	Strong	Office, Stores
200 lux	Middle	Meeting room, House room
54 lux	Weak	Emergency staircase/corridor
10.8 lux	Very weak	Candle light from 1ft distance

Particle types	Ave. particle size	Ink & paint						Plastic				Glass/ceramic
		Screen	Flexo	Gravure	Offset	Water based	Solvent based	Injection	Extrusion	Casting	Fiber	
<b>FF series</b>	2.5-3	◎	◎	◎	○	○	◎	◎	◎	△	◎	-
<b>F</b>	14	◎	△	-	-	○	◎	◎	◎	△	△	-
<b>M</b>	25	◎	-	-	-	○	◎	○	○	○	-	△
<b>C</b>	40	○	-	-	-	○	◎	-	-	◎	-	○
<b>L</b>	110	○	-	-	-	○	◎	-	-	◎	-	○
<b>L160</b>	160	△	-	-	-	○	◎	-	-	◎	-	◎
<b>GSS/GB-U</b>	23/17	◎	-	-	-	○	◎	◎	◎	◎	-	-
<b>GSO</b>	25	◎	-	-	-	○	◎	◎	◎	◎	-	-
<b>RAS</b>	25	◎	-	-	-	-	◎	◎	◎	◎	-	-



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- ◎ Recommended
- Suitable
- △ Possible
- Not recommended