















Typical Data

LumiNova series

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

※Water resistant treatment available

Other conventional pigments

GSS/GB-U	Green	Light yellow			ZnS:Cu	Quick excitation	23/17 μm	Good	Low UV resistance
GSO	Orange	Light orange			ZnS:Cu,Mn,Co	Quick excitation	25 μm	Good	Low UV resistance
RAS	Red	Pink			CaS:Eu,Tm	Quick excitation	30 μm	Poor	Poor

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 and suitable applications

Particle types	Ave. particle size	Ink & paint					Plastic				Glass/ceramic	
		Screen	Flexo	Gravure	Offset	Water based	Solvent based	Injection	Extrusion	Casting		Fiber
FF series	2.5-3	◎	◎	◎	○	○	◎	◎	◎	△	◎	-
F	14	◎	△	-	-	○	◎	◎	◎	△	△	-
M	25	◎	-	-	-	○	◎	○	○	○	-	△
C	40	○	-	-	-	○	◎	-	-	◎	-	○
L	110	○	-	-	-	○	◎	-	-	◎	-	○
L160	160	△	-	-	-	○	◎	-	-	◎	-	◎
GSS/GB-U	23/17	◎	-	-	-	○	◎	◎	◎	◎	-	-
GSO	25	◎	-	-	-	○	◎	◎	◎	◎	-	-
RAS	30	◎	-	-	-	-	◎	◎	◎	◎	-	-

- ◎ Recommended
- Suitable
- △ Possible
- Not recommended