

Small dots. Great potential.



WE ARE QUANTUM DOTS MANUFACTURER

Semiconducting Quantum Dots could be the solution
and breakthrough blue light emitters!



APPLICATION FIELDS



QNA Technology is developing semiconducting blue light emitting quantum dots (QNA.dots) & quantum dots based inks (QNA.inks) for use in **DISPLAYS & LED LIGHTING** applications

Quantum Dots

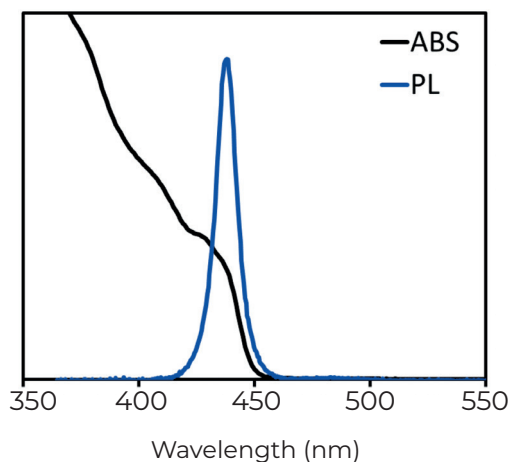
heavy metal free
eye safe blue light
efficient and stable over time
tailor-made for customer

Quantum Inks

customized rheological parameters
to enable **printing semiconductors**
on various surface with selected
printing methods!

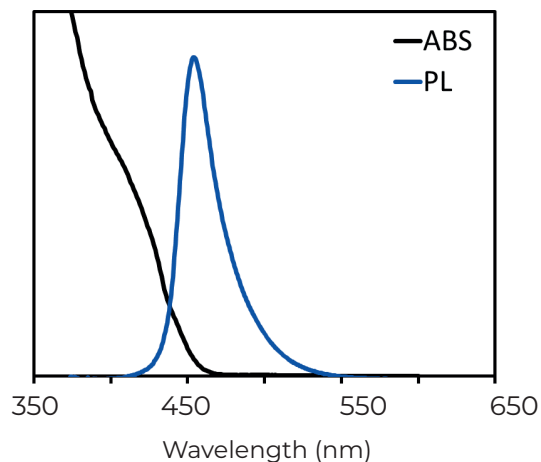


DeepBlue.dots



Emission	440 nm
QY	80±5%
FWHM	< 15 nm

PureBlue.dots



Emission	455 nm
QY	75 ±5%
FWHM	< 35 nm

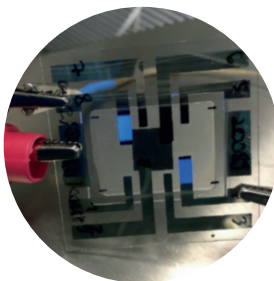
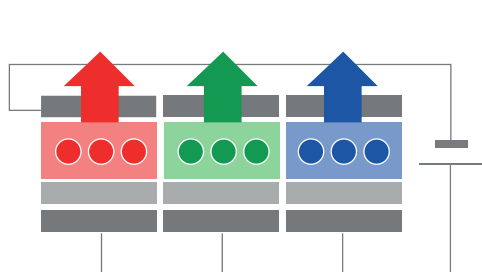
QNA.dots can be delivered in:

- nonpolar solvents (e.g. toluene, hexane, octane)
- polar solvents (e.g. ethanol)
- monomers (e.g. HDDA, IBOA, PGMEA)
- UV curable ink
- ink (e.g. based on ethylene glycol)
- powder form

QNA.dots main advantages:

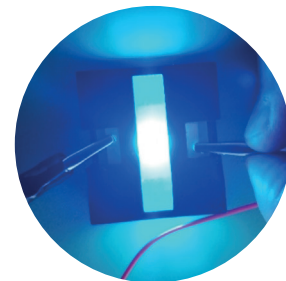
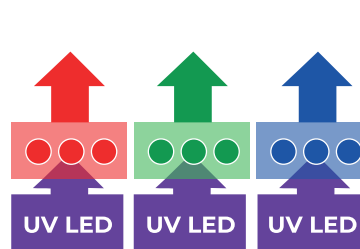
- No cadmium/No lead. Fully compliant with RoHS regulations
- No indium/No lanthanides. Resistant to raw material shortage
- QNA.dots can be delivered in wide concentrations range – from 1 to 40% wt.
- Large delivery possible

QNA.dots for electroluminescence



PureBlue.dots applied in electroluminescent device as optically active layer for new technology of displays.

QNA.dots for light conversion



PureBlue.dots applied in resist form on the top of UV LED for microLED displays and lighting applications.



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