

### PRODUCT CATALOG CARD

revised: February 28<sup>th</sup>, 2024

#### General Information

Product line	PureBlue.UVink
Product	QNA-PB.UVink.017
Product description	Pure blue quantum dots (QDs) in UV curable ink
QDs structure	core/shell
QDs composition	cadmium free
QDs dedicated to application in	light conversion

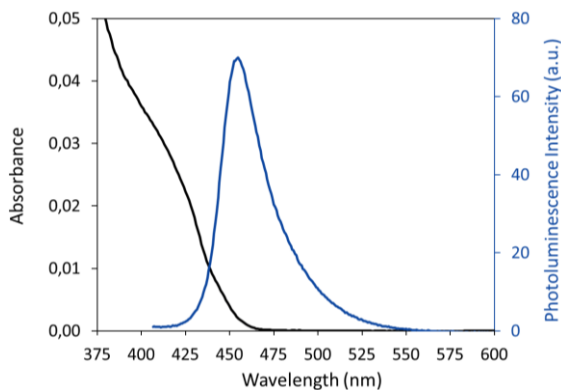
#### QDs optical properties

##### Photoluminescence emission

color	pure blue
peak position	445-460 nm
quantum yield	60-85%
peak broadening (FWHM)	< 35 nm

##### Absorbance

absorbance range	< 470 nm
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Exemplary ABS and PL spectra\*

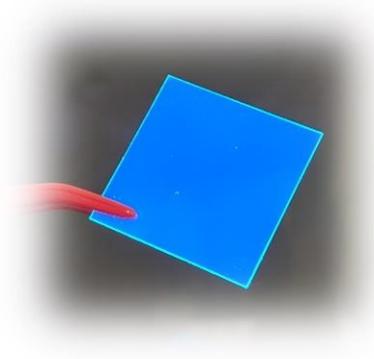


Photo of PureBlue.UVink layer

\*The measurements were made for exemplary samples and exact parameters may vary

#### QDs solution properties

QDs concentration (including ligands)	135-500 mg/ml
Main solvent	HDDA

#### Available product versions

Product Version	Peak Position *** (nm)	Quantum Yield (%)	Peak Broadening FWHM (nm)	QDs Concentration*** (including ligands)	Curing atmosphere
01701-135	455 ± 5 nm	> 60%	30 ± 5 nm	135 mg/ml	inert
01702-135	450 ± 5 nm	> 70%	25 ± 5 nm	135 mg/ml	inert
01702-300	450 ± 5 nm	> 70%	25 ± 5 nm	300 mg/ml	inert
01702-500	450 ± 5 nm	> 70%	25 ± 5 nm	500 mg/ml	inert
01703-135	447 ± 5 nm	> 70%	20 ± 5 nm	135 mg/ml	inert
01703-300	447 ± 5 nm	> 70%	20 ± 5 nm	300 mg/ml	inert

\*\*\*other concentrations and peak positions possible on demand