



## Phosphor Information Leaflet

### GENERAL

Name	Yttrium vanadate
Chemical formula	YVO <sub>4</sub>
Application areas	PDPs (blue pixel)

### OPTICAL PROPERTIES

Excitation maxima @	202 nm (6.15 eV), 271 nm (4.58 eV)
Emission maximum @ 465 nm exc.	422 nm (2.94 eV)
Centroid wavelength	441 nm (2.81 eV)
Full width @ half emission maximum	109 nm
Lumen equivalent	108 lm/W <sub>opt.</sub>
CIE1931 chromaticity coordinates (x, y)	0.158, 0.127
Band edge of host lattice	4.0 eV
Reflection @ 254 nm	3 %
Decay time $\tau_{1/e}$	< 0.1 ms

### PHYSICAL PROPERTIES

Body colour	White
Density	4.25 g/cm <sup>3</sup>
Refractive index (at $\lambda$ )	1.958 (1064 nm)
Mineral type	Xenotime
Crystal system	Tetragonal
Space group (#)	I 41/a m d Z (141)

