



# Phosphor Information Leaflet

## GENERAL

Name	Potassium europium double tungstate
Chemical formula	$\text{KEu}(\text{WO}_4)_2$
Application areas	Luminescent marker

## OPTICAL PROPERTIES

Excitation maxima @ 615 nm em.	275 nm (4.51 eV), 395 nm (3.14 eV), 465 nm (2.67 eV), 534 nm (2.32 eV)
Emission maximum @ 465 nm exc.	614 nm (2.02 eV), 704 nm (1.76 eV)
Centroid wavelength	630 nm (1.97 eV)
Full width @ half emission maximum	Lines
Lumen equivalent	257 lm/W <sub>VIS</sub>
CIE1931 chromaticity coordinates (x, y)	0.671, 0.329
Band edge of host lattice	3.8 eV
Reflection @ 465	66%
Decay time $\tau_{1/e}$	526 $\mu\text{s}$ (Exc. 465 nm, Emis. 615 nm)

## PHYSICAL PROPERTIES

Body colour	White
Density	-
Refractive index (at $\lambda$ )	-
Mineral type	-
Crystal system	Monoclinic
Space group (#)	C12/c1 (15)

