



Phosphor Information Leaflet

GENERAL

Name	Terbium tungstate europium
Chemical formula	Tb ₂ W ₃ O ₁₂ :Eu ³⁺
Application areas	General lighting

OPTICAL PROPERTIES

Excitation maxima @	395 nm (3.14 eV), 465 nm (2.67 eV), 488 nm (2.54 eV), 536 nm (2.31 eV)
Emission maximum @ 465 nm exc.	616 nm (2.01 eV)
Centroid wavelength	616 nm (2.01 eV)
Full width @ half emission maximum	Line
Lumen equivalent	241 lm/W _{opt}
CIE1931 chromaticity coordinates (x, y)	0.672, 0.328
Band edge of host material	3.9 eV
Reflectance @ 465 nm	61 %

PHYSICAL PROPERTIES

Body colour	White
Density	7.34 g/cm ³
Refractive index (at λ)	
Mineral type	
Crystal system	Monoclinic
Space group (#)	C 1 2/c 1 (#15)

