



Phosphor Information Leaflet

GENERAL

Name	Indium borate europium
Chemical formula	$\text{InBO}_3:\text{Eu}^{3+}$
Application areas	Cathode ray tubes (monochrome orange), CL Lamps

OPTICAL PROPERTIES

Excitation maxima @	254 nm (4.88 eV)
Emission maximum @ 254 nm exc.	591 nm (2.10 eV), 598 nm (2.07 eV)
Centroid wavelength	616 nm (2.01 eV)
Full width @ half emission maximum	Lines
Lumen equivalent	360 lm/W _{opt.}
CIE1931 chromaticity coordinates (x, y)	0.612, 0.388
Band edge of host lattice	220 nm (5.64 eV)
Reflection @ 254 nm	50 %

PHYSICAL PROPERTIES

Body colour	White
Density	5.56 g/cm ³
Refractive index (at λ)	1.88 (@ 576.9 nm)
Mineral type	Calcite
Crystal system	Trigonal
Space group (#)	R -3 c H (167)



