



Phosphor Information Leaflet

GENERAL

Name	Indium borate terbium
Chemical formula	InBO ₃ :Tb ³⁺
Application areas	Cathode ray tubes (monochrome green), CL Lamps

OPTICAL PROPERTIES

Excitation maxima @	195 nm (6.36 eV)
Emission maximum @ 254 nm exc.	553 nm (2.24 eV)
Centroid wavelength	553 nm (2.24 eV)
Full width @ half emission maximum	Lines
Lumen equivalent	550 lm/W _{opt.}
CIE1931 chromaticity coordinates (x, y)	0.331, 0.621
Band edge of host lattice	220 nm (5.64 eV)
Reflection @ 254 nm	52 %

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)

