



Phosphor Information Leaflet

GENERAL

Name	Yttrium magnesium borate cerium gadolinium
Chemical formula	YMgB ₅ O ₁₀ :Ce,Gd
Application areas	UV-B lamps, Psoriasis lamps

OPTICAL PROPERTIES

Excitation maxima @ 313 nm	266 nm (4.69 eV)
Emission maximum @ 266 nm exc.	313 nm (3.96 eV)
Centroid wavelength	415 nm (2.99 eV)
Full width @ half emission maximum	lines
Lumen equivalent	-
CIE1931 chromaticity coordinates (x, y)	-
Band edge of host lattice	5.95 eV
Reflection @ 266 nm	8 %
Decay time $\tau_{1/e}$	3.8 ms

PHYSICAL PROPERTIES

Body colour	White
Density	3.55 g/cm ³
Refractive index	-
Mineral type	-
Crystal system	Monoclinic
Space group (#)	P2 ₁ /n

