



Phosphor Information Leaflet

GENERAL

Name	Barium aluminate manganese
Chemical formula	$\text{BaAl}_{12}\text{O}_{19}:\text{Mn}^{2+}$
Application areas	Plasma Display Panels (Green pixel)

OPTICAL PROPERTIES

Excitation maximum @	172 nm (7.2 eV)
Emission maximum @ 254 nm exc.	516 nm (2.4 eV)
Centroid wavelength	528 nm (2.3 eV)
Full width @ half emission maximum	37 nm
Lumen equivalent	509 lm/W _{opt.}
CIE1931 chromaticity coordinates (x, y)	0.186, 0.732
Band edge of host lattice	
Reflection @ 254 nm	85 %
Decay time $\tau_{1/e}$	15 ms

PHYSICAL PROPERTIES

Body colour	White
Density	4.1 g/cm ³
Refractive index (at λ)	
Mineral type	Magnetoplumbite
Crystal system	Hexagonal
Space group (#)	P 63/m m c

