



# Phosphor Information Leaflet

## GENERAL

Name	Lanthanum magnesium aluminate gadolinium
Chemical formula	LaMgAl <sub>11</sub> O <sub>19</sub> :Gd <sup>3+</sup>
Application areas	UV-B lamps

## OPTICAL PROPERTIES

Excitation maxima @ 311 nm em.	172 nm (7.21 eV)
Emission maximum @ 160 nm exc.	311 nm (3.99 eV)
Centroid wavelength	311 nm
Full width @ half emission maximum	line
Lumen equivalent	-
CIE1931 chromaticity coordinates (x, y)	-
Band edge of host lattice	7.2 eV
Reflection @ 311 nm	88%

## PHYSICAL PROPERTIES

Body colour	white
Density	4.29 g/cm <sup>3</sup>
Refractive index (at λ)	
Mineral type	magnetoplumbite
Crystal system	hexagonal
Space group (#)	P6 <sub>3</sub> /mmc (194)

