



Phosphor Information Leaflet

GENERAL

Name	Lanthanum magnesium aluminate chromium
Chemical formula	$\text{LaMgAl}_{11}\text{O}_{19}:\text{Cr}^{3+}$
Application areas	Laser crystal

OPTICAL PROPERTIES

Excitation maxima @ 696 nm em.	419 nm (2.96 eV); 576 nm (2.15 eV)
Emission maximum @ 420 nm exc.	694 nm (1.79 eV)
Centroid wavelength	730 nm
Full width @ half emission maximum	line
Lumen equivalent	3 lm/W
CIE1931 chromaticity coordinates (x, y)	0.715; 0.284
Band edge of host lattice	
Reflection @ 450 nm	57%

PHYSICAL PROPERTIES

Body colour	pale pink
Density	4.285 g/cm ³
Refractive index (at λ)	
Mineral type	magnetoplumbite
Crystal system	hexagonal
Space group (#)	$P6_3/mmc$ (194)



