



Phosphor Information Leaflet

GENERAL

Name	Lanthanum zirconium molybdate europium
Chemical formula	$\text{La}_2\text{Zr}_3(\text{MoO}_4)_9:\text{Eu}^{3+}$
Application areas	None

OPTICAL PROPERTIES

Excitation maximum ($\lambda_{\text{em}} = 631 \text{ nm}$)	395.5 nm (3.17 eV)
Emission maximum ($\lambda_{\text{ex}} = 456 \text{ nm}$)	617 nm (2.01 eV)
Centroid wavelength	607 nm (2.04 eV)
Full width at half maximum (at 617 nm)	1.5 nm
Lumen equivalent	192 lm/W
CIE1931 chromaticity coordinates (x, y)	0.658, 0.342
Band edge of host lattice	3.5 eV
Reflectance at 465 nm	64%

PHYSICAL PROPERTIES

Body colour	Pale yellow
Density	
Refractive index (at λ)	
Mineral type	
Crystal system	Tetragonal
Space group (#)	$R\text{-}3\text{ch}$ (167)

