



Phosphor Information Leaflet

GENERAL

Name	Lutetium aluminium garnet gadolinium
Chemical formula	$\text{Lu}_3\text{Al}_5\text{O}_{12}:\text{Gd}^{3+}$
Application areas	UV-B emitting fluorescent lamps

OPTICAL PROPERTIES

Excitation maxima	175 nm (7.09 eV)
Emission maximum @ 160 nm exc.	314 nm (3.95 eV)
Centroid wavelength	-
Full width @ half emission maximum	Lines
Lumen equivalent	0
CIE1931 chromaticity coordinates (x, y)	-
Band edge of host lattice	160 nm (7.75 eV)
Reflection @ 254 nm	93 %

PHYSICAL PROPERTIES

Body colour	White
Density	6.70 g/cm ³
Refractive index (at λ)	1.84 (589.3 nm)
Mineral type	Garnet
Crystal system	Cubic
Space group (#)	I a -3 d (230)

