



Phosphor Information Leaflet

GENERAL

Name	Lithium gadolinium silicate europium
Chemical formula	LiGdSiO ₄ :Eu
Application areas	Optical marker

OPTICAL PROPERTIES

Excitation maxima @ 615 nm	265 nm (4.7 eV), 363 nm (3.4 eV), 393 nm (3.2 eV), 464 nm (2.7 eV), 531 nm (2.3 eV),
Emission maximum @ 394 nm exc.	590 nm (2.1 eV), 614 nm (2.0 eV), 702 nm (1.8 eV)
Centroid wavelength	634 nm (2.0 eV)
Full width @ half emission maximum	lines
Lumen equivalent	246 lm/W _{VIS}
CIE1931 chromaticity coordinates (x, y)	0.642; 0.356
Band edge of host lattice	-
Reflection @ 394 nm	67 %
Decay time $\tau_{1/e}$	-

PHYSICAL PROPERTIES

Body colour	white
Density	
Refractive index	
Mineral type	
Crystal system	hexagonal
Space group (#)	P63/m

