



Phosphor Information Leaflet

GENERAL

Name	Lutetium disilicatepraseodymium
Chemical formula	$\text{Lu}_2\text{Si}_2\text{O}_7:\text{Pr}^{3+}$
Application areas	UV emitting lamps

OPTICAL PROPERTIES

Excitation maxima @	174 nm (7.13 eV), 221 nm (5.61 eV)
Emission maximum @ 160 nm exc.	270 nm (4.59 eV)
Centroid wavelength	-
Full width @ half emission maximum	59 nm
Lumen equivalent	-
CIE1931 chromaticity coordinates (x, y)	-
Band edge of host lattice	7.8eV
Reflection @ 300 nm	94%

PHYSICAL PROPERTIES

Body colour	White
Density	6.2 g/cm ³
Refractive index	1.7
Mineral type	-
Crystal system	Monoclinic
Space group (#)	C12/m1 (#12)

