



Phosphor Information Leaflet

GENERAL

Name	Strontium diphosphate europium
Chemical formula	$\text{Sr}_2\text{P}_2\text{O}_7:\text{Eu}^{2+}$
Application areas	Fluorescent lamps (reprography)

OPTICAL PROPERTIES

Excitation maxima @	250 nm (\triangleq 4.96 eV)
Emission maximum @ exc.	421 nm (\triangleq 2.95 eV)
Centroid wavelength	428 nm (\triangleq 2.90 eV)
Full width @ half emission maximum	28 nm
Lumen equivalent	11 lm/W _{opt.}
CIE1931 chromaticity coordinates (x, y)	0.167, 0.014
Band edge of host lattice	170 nm (\triangleq 7.29 eV)
Reflection @ 254 nm	16 %

PHYSICAL PROPERTIES

Body colour	White
Density	3.7 g/cm ³
Refractive index (at λ)	-
Mineral type	-
Crystal system	Orthorhombic
Space group (#)	Pnma (62)

