



Phosphor Information Leaflet

GENERAL

Name	Strontium aluminate europium
Chemical formula	$\text{Sr}_4\text{Al}_{14}\text{O}_{25}:\text{Eu}^{2+}$
Application areas	Fluorescent lamps with high CRI, Near UV LEDs

OPTICAL PROPERTIES

Excitation maxima @	170 nm (± 7.3 eV), 400 nm (± 3.1 eV)
Emission maximum @ 254 nm exc.	490 nm (± 2.5 eV)
Centroid wavelength	500 nm (± 2.5 eV)
Full width @ half emission maximum	61 nm
Lumen equivalent	275 lm/W _{opt}
CIE1931 chromaticity coordinates (x, y)	0.142, 0.381
Band edge of host lattice	197 nm (± 6.3 eV)
Reflection @ 254 nm	17 %

PHYSICAL PROPERTIES

Body colour	Greenish
Density	3.66 g/cm ³
Refractive index (at λ)	-
Mineral type	-
Crystal system	Orthorhombic
Space group (#)	P m m a (41)

