



Phosphor Information Leaflet

GENERAL

Name	Strontium dodecaaluminate cerium sodium
Chemical formula	$\text{SrAl}_{12}\text{O}_{19}:\text{Ce}^{3+},\text{Na}^+$
Application areas	tanning lamps, psoriasis lamps

OPTICAL PROPERTIES

Excitation maxima @	254 nm (4.88 eV)
Emission maximum @ 254 nm exc.	303 nm (4.09 eV)
Centroid wavelength	317 nm (3.91 eV)
Full width @ half emission maximum	40 nm
Lumen equivalent	-
CIE1931 chromaticity coordinates (x, y)	-
Band edge of host lattice	7.8 eV
Reflection @ 254 nm	75%

PHYSICAL PROPERTIES

Body colour	White
Density	3.93 g/cm ³
Refractive index (at λ)	
Mineral type	Pseudo magnetoplumbite
Crystal system	Hexagonal
Space group (#)	P 63/m m c (#194)

