



Phosphor Information Leaflet

GENERAL

Name	Strontium calcium silicate europium
Chemical formula	$(\text{Sr,Ca})_2\text{SiO}_4:\text{Eu}^{2+}$
Application areas	Light emitting diodes

OPTICAL PROPERTIES

Excitation maxima @	160 - 430 nm ($\approx 2.9 - 7.8$ eV)
Emission maximum @ 254 nm exc.	576 nm (≈ 2.2 eV)
Centroid wavelength	580 nm (≈ 2.1 eV)
Full width @ half emission maximum	100 nm
Lumen equivalent	429 lm/W _{opt.}
CIE1931 chromaticity coordinates (x, y)	0.455, 0.494
Band edge of host lattice	
Reflection @ 254 nm	9 %
Decay time $\tau_{1/e}$	~ 1 μs

PHYSICAL PROPERTIES

Body colour	Yellow
Density	4 g/cm ³
Refractive index (at λ)	
Mineral type	-
Crystal system	Orthorhombic
Space group (#)	Pna2 ₁ (62)

