



# Phosphor Information Leaflet

## GENERAL

Name	Strontium sulfide europium
Chemical formula	SrS:Eu <sup>2+</sup>
Application areas	Light emitting diodes, cathode ray tubes, EL Light sources

## OPTICAL PROPERTIES

Excitation maxima @ 655 nm	284 nm ( $\pm$ 4.4 eV), 443 nm ( $\pm$ 2.8 eV), 502 nm ( $\pm$ 2.5 eV),
Emission maximum @ 443 nm exc.	615 nm ( $\pm$ 2.01 eV)
Centroid wavelength	627 nm ( $\pm$ 1.97 eV)
Full width @ half emission maximum	71 nm
Lumen equivalent	260 lm/W <sub>opt.</sub>
CIE1931 chromaticity coordinates (x, y)	0.628, 0.371
Band edge of host lattice	258 nm (4.8 eV)
Reflection @ 254 nm	13 %
Decay time 1/e	1 ms

## PHYSICAL PROPERTIES

Body colour	orange
Density	3.7 g/cm <sup>3</sup>
Refractive index (at 589 nm)	2.107
Mineral type	Halite
Crystal system	Cubic
Space group (#)	Fm-3m (225)

