



Phosphor Information Leaflet

GENERAL

Name	Strontium molybdenum oxide europium
Chemical formula	$\text{Sr}_3\text{MoO}_6:\text{Eu}^{3+}$
Application areas	

OPTICAL PROPERTIES

Excitation maxima @ 615 nm	468 nm (6.45 eV), 535 nm (2.32 eV)
Emission maximum @ 450 nm exc.	615 nm (2.02 eV)
Centroid wavelength	630 nm (1.97 eV)
Full width @ half emission maximum	9 nm
Lumen equivalent	238 lm/W
CIE1931 chromaticity coordinates (x, y)	0.640; 0.338
Band edge of host lattice	-
Reflection @ 450 nm	38 %

PHYSICAL PROPERTIES

Body colour	Light yellow
Density	5.40 g/cm ³
Refractive index (at λ)	
Mineral type	
Crystal system	double perovskite
Space group (#)	Fm-3m (225)

