



# Phosphor Information Leaflet

## GENERAL

Name	Rubidium sodium magnesium phosphate europium
Chemical formula	$\text{RbNa}_3\text{Mg}_7(\text{PO}_4)_6:\text{Eu}$
Application areas	Phosphor converted (In,Ga)N LEDs for illumination or jaundice treatment

## OPTICAL PROPERTIES

Excitation maxima @ 444 nm	333 nm (3.7 eV)
Emission maximum @ 380 nm exc.	451 nm (2.7 eV)
Centroid wavelength	459 nm (2.7 eV)
Full width @ half emission maximum	50 nm
Lumen equivalent	66 lm/W <sub>vis.</sub>
CIE1931 chromaticity coordinates (x, y)	0.149; 0.059
Band edge of host lattice	180 nm (6.9 eV)
Reflection @ 333 nm	44 %
Decay time $\tau_{1/e}$	670 ns

## PHYSICAL PROPERTIES

Body colour	White
Density	3.06 g/cm <sup>3</sup>
Refractive index	-
Mineral type	-
Crystal system	Monoclinic
Space group (#)	C2/c (15)

