



# Phosphor Information Leaflet

## GENERAL

Name	Gadolinium phosphate cerium
Chemical formula	GdPO <sub>4</sub> :Ce <sup>3+</sup>
Application areas	UV Lamps for tanning and medical purposes

## OPTICAL PROPERTIES

Excitation maxima @	277 nm (4.48 eV)
Emission maximum @ 254 nm exc.	312 nm (3.97 eV), 323 nm (3.84 eV)
Centroid wavelength	351 nm (3.53 eV)
Full width @ half emission maximum	50 nm
Lumen equivalent	-
CIE1931 chromaticity coordinates (x, y)	-
Band edge of host lattice	150 nm (8.20 eV)
Reflection @ 254 nm	7 %

## PHYSICAL PROPERTIES

Body colour	White
Density	5.99 g/cm <sup>3</sup>
Refractive index (at λ)	1.79 (@ 633 nm)
Mineral type	Monazite
Crystal system	Monoclinic
Space group (#)	P 1 2 1/n 1 (14)

