



Phosphor Information Leaflet

GENERAL

Name	Yttrium phosphate gadolinium
Chemical formula	YPO ₄ :Gd ³⁺
Application areas	Thermometry

OPTICAL PROPERTIES

Excitation maxima @	176 (± 7.04 eV)
Emission maximum @ 160 nm exc.	313 nm (± 3.96 eV)
Centroid wavelength	313 nm
Full width @ half emission maximum	Line
Lumen equivalent	-
CIE1931 chromaticity coordinates (x, y)	-
Band edge of host lattice	155 nm (8.30 eV)
Reflection @ 254 nm	97%
Decay time 1/e	

PHYSICAL PROPERTIES

Body colour	White
Density	4.17 g/cm ³
Refractive index (at λ)	1.66 (515 nm)
Mineral type	Xenotime
Crystal system	Tetragonal
Space group (#)	I 41/a m d Z (141)

