



Phosphor Information Leaflet

GENERAL

Name	Lutetium phosphat dysprosium
Chemical formula	LuPO ₄ :Dy ³⁺
Application areas	-

OPTICAL PROPERTIES

Excitation maxima @ 573 nm em.	352.6 nm (3.4eV)
Emission maximum @353 nm exc.	573.5 nm (2.2 eV)
Centroid wavelength	552 nm (2.2 eV)
Full width @ half emission maximum	Lines
Lumen equivalent	339 lm/W
CIE1931 chromaticity coordinates (x, y)	0.345; 0.3926
Band edge of host lattice	138 nm (9.0 eV)
Reflection @ 260 nm	80%

PHYSICAL PROPERTIES

Body colour	white
Density	6.53 g/cm ³
Refractive index (at λ)	1.68 (520.8 nm)
Mineral type	Xenotime
Crystal system	tetragonal
Space group (#)	<i>I</i> 4 ₁ <i>a</i> <i>m</i> <i>d</i> <i>Z</i> (141)

