



Phosphor Information Leaflet

GENERAL

Name	Potassium yttrium fluoride praseodymium
Chemical formula	KYF ₄ :Pr ³⁺
Application areas	Laser ceramics, Excimer lamps

OPTICAL PROPERTIES

Excitation maxima @	206 nm (6.02 eV)
Emission maximum @ 160 nm exc.	232 nm (5.34 eV), 251 nm (4.94 eV)
Centroid wavelength	
Full width @ half emission maximum	42 nm
Lumen equivalent	-
CIE1931 chromaticity coordinates (x, y)	-
Band edge of host lattice	6.9 eV
Reflection @ 350 nm	93 %

PHYSICAL PROPERTIES

Body colour	White
Density	3.97 g/cm ³
Refractive index (at λ)	1.4 (1060 nm)
Mineral type	-
Crystal system	Trigonal
Space group (#)	P3 ₁ (#144)

