



Phosphor Information Leaflet

GENERAL

Name	Potassium tryttrium fluoride praseodymium
Chemical formula	$KY_3F_{10}:Pr^{3+}$
Application areas	Laser ceramics

OPTICAL PROPERTIES

Excitation maxima @	444 nm (2.79 eV)
Emission maximum @ 444 nm exc.	609 nm (2.04 eV)
Centroid wavelength	629 nm (1.97 eV)
Full width @ half emission maximum	Lines
Lumen equivalent	267 lm/W _{opt.}
CIE1931 chromaticity coordinates (x, y)	0.561, 0.428
Band edge of host lattice	120 nm (9.92 eV)
Reflection @ 444 nm	95 %

PHYSICAL PROPERTIES

Body colour	White
Density	4.19 g/cm ³
Refractive index (at λ)	1.59 (193 nm)
Mineral type	-
Crystal system	Cubic
Space group (#)	F m -3 m (255)

