



# Phosphor Information Leaflet

## GENERAL

Name	Yttrium oxy fluoride praseodymium
Chemical formula	YOF:Pr <sup>3+</sup>
Application areas	

## OPTICAL PROPERTIES

Excitation maxima @ 520 nm	135 nm (9.19 eV), 170 nm (7.29 eV)
Emission maximum @ 160 nm exc.	497 nm (2.49 eV); 658 nm (1.88 eV)
Centroid wavelength	580 nm (2.14 eV)
Full width @ half emission maximum	lines
Lumen equivalent	147 lm/W
CIE1931 chromaticity coordinates (x, y)	0.286; 0.419
Band edge of host lattice	5.07 eV

## PHYSICAL PROPERTIES

Body colour	white
Density	5.10 g/cm <sup>3</sup>
Refractive index	1.7
Mineral type	
Crystal system	cubic
Space group (#)	<i>Fm-3m</i> (225)

