



## Phosphor Information Leaflet

### GENERAL

Name	Gadolinium tungstate praseodymium
Chemical formula	$Gd_2W_3O_{12}:Pr^{3+}$
Application areas	

### OPTICAL PROPERTIES

Excitation maxima @ 649 nm	449 nm (2.76 eV), 473 nm (2.61 eV), 487 nm (2.55 eV)
Emission maximum @ 480 nm exc.	648 nm (1.91 eV)
Centroid wavelength	606 nm (2.05 eV)
Full width @ half emission maximum	lines
Lumen equivalent	190 lm/W
CIE1931 chromaticity coordinates (x, y)	0.484; 0.398
Band edge of host lattice	-
Reflection @ 480 nm	

### PHYSICAL PROPERTIES

Body colour	white
Density	7.49 g/cm <sup>3</sup>
Refractive index (at $\lambda$ )	
Mineral type	
Crystal system	monoclinic
Space group (#)	$C12/c1$ (15)

