



# Phosphor Information Leaflet

## GENERAL

Name	Strontium borate Praseodymium
Chemical formula	$\text{Sr}_3(\text{BO}_3)_2:\text{Pr}^{3+}, \text{Na}^+$
Application areas	Excimer discharge lamps

## OPTICAL PROPERTIES

Excitation maxima @ 272 nm	248 nm (5.0 eV)
Emission maximum @ 160 nm exc.	272 nm (4.6 eV)
Centroid wavelength	297 nm (4.2 eV)
Full width @ half emission maximum	28 nm (0.4 eV)
Lumen equivalent	-
CIE1931 chromaticity coordinates (x, y)	-
Band edge of host lattice	-
Decay time $\tau_{1/e}$	< 50 ns

## PHYSICAL PROPERTIES

Body colour	White
Density	4.26 g/cm <sup>3</sup>
Refractive index (at $\lambda$ )	
Mineral type	
Crystal system	Trigonal
Space group (#)	$R\bar{3}c$ h (167)

