



Phosphor Information Leaflet

GENERAL

Name	Sodium barium vanadate europium
Chemical formula	NaBaVO ₄ :Eu ³⁺
Application areas	

OPTICAL PROPERTIES

Excitation maxima @ 618 nm	321 nm (3.86 eV), 468 nm (2.65 eV); 526 nm (2.36 eV);
Emission maximum @ 322 nm exc.	591 nm (2.10 eV); 611 nm (2.03 eV); 619 nm (2.00 eV)
Centroid wavelength	619 nm (2.00 eV)
Full width @ half emission maximum	Lines
Lumen equivalent	307 lm/W
CIE1931 chromaticity coordinates (x, y)	0.637; 0.361
Band edge of host lattice	-
Reflection @ 322 nm	7 %

PHYSICAL PROPERTIES

Body colour	Light yellow
Density	4.28 g/cm ³
Refractive index (at λ)	
Mineral type	
Crystal system	
Space group (#)	Pnma (62)

