



Phosphor Information Leaflet

GENERAL

Name	Zinc gallium germanate chrome
Chemical formula	$Zn_3Ga_2Ge_2O_{10}:Cr^{3+}$
Application areas	Near UV LEDs

OPTICAL PROPERTIES

Excitation maxima @ 699 nm em	413 nm (± 3.0 eV), 564 nm (± 2.2 eV)
Emission maximum @ 450 nm exc.	699 nm (± 1.8 eV)
Centroid wavelength	729 nm (± 1.7 eV)
Full width @ half emission maximum	14 nm
Lumen equivalent	5 lm/W _{opt.}
CIE1931 chromaticity coordinates (x, y)	0.722, 0.278
Band edge of host lattice	
Reflection @ 254 nm	8 %
Decay time $\tau_{1/e}$	-

PHYSICAL PROPERTIES

Body colour	white
Density	-
Refractive index (at λ)	-
Mineral type	-
Crystal system	-
Space group (#)	-

