



Phosphor Information Leaflet

GENERAL

Name	Sodium hexafluoride gallate manganese
Chemical formula	$\text{Na}_3\text{GaF}_6:\text{Mn}^{4+}$
Application areas	red emitting LED phosphor

OPTICAL PROPERTIES

Excitation maxima @ 688 nm em.	362 nm (3.43 eV), 465 nm (2.67 eV)
Emission maximum @ 415 nm exc.	628 nm (1.97 eV)
Centroid wavelength	627 nm (1.98 eV)
Full width @ half emission maximum	Lines
Lumen equivalent	216 lm/W _{opt.}
CIE1931 chromaticity coordinates (x, y)	0.691, 0.309
Band edge of host lattice	224 nm (5.53 eV)
Reflection @ 465 nm	85 %

PHYSICAL PROPERTIES

Body colour	Yellowish
Density	-
Refractive index (at λ)	-
Mineral type	Cryolite
Crystal system	Monoclinic
Space group (#)	P2 ₁ /a (14)

