



Phosphor Information Leaflet

GENERAL

Name	Gadolinium gallium tetraborate chromium
Chemical formula	$GdGa_3(BO_3)_4:Cr^{3+}$
Application areas	Laser gain media

OPTICAL PROPERTIES

Excitation maxima @ 720 nm em.	425 nm (2.92 eV); 613 nm (2.02 eV)
Emission maximum @ 430 nm exc.	755 nm (1.64 eV)
Centroid wavelength	753 nm
Full width @ half emission maximum	98 nm
Lumen equivalent	3 lm/W
CIE1931 chromaticity coordinates (x, y)	0.633; 0.354
Band edge of host lattice	
Reflection @ 260 nm	26 %
Decay time $\tau_{1/e}$	

PHYSICAL PROPERTIES

Body colour	green
Density	5.26 g/cm ³
Refractive index (at λ)	
Mineral type	huntite
Crystal system	
Space group (#)	R32 h (155)



