

GGG

Gd₃Ga₅O₁₂ single crystal and substrate

	Physical Properties of Sapphire
Crystal Structure	Cubic: a =12.376 Å , (Z = 8)
Molecular weight	1012.365 -
Melt Point	1800 °C
Density	7.09 g/cm ³
Hardness	~ 8 (mohns)
Refractive index	1.95
Crystal Purity	> 99.99%
Crystal growth method	Czochralski
Crystal growth direction	<111>
Standard Specs of GGG crystal substrates	
Max. Crystal boule	3" dia x 100 mm length
Standard substrate size	3" dia. X 0.5 mm , two sides epi polished
At Orientation <111> ±0.5 °	10 x 10 x 0.5 mm, two sides epi polished



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