

Gadolinium Gallium Garnet (GGG)

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|---|---|
| Formula | Gd ₃ Ga ₅ O ₁₂ |
| Crystal Growth | |
| Growth Method | Czochralski |
| Max. Diameter (inch) | Ø 3" |
| Growth Direction | [111] |
| Crystallographic Properties | |
| Crystal Structure | cubic |
| Lattice Constant (nm) | a = 1.2382 |
| Physical Properties | |
| Color | pale yellow |
| Density (g/cm ³) | 7.02 |
| Melting Point (K) | 2003 |
| Thermal Expansion (10 ⁻⁶ K ⁻¹) | 8.2 |
| Dielectric Constant | 30 |
| Loss Tangent (@ 77K, 10GHz) | 0.15 |
| Hardness (Mohs) | 6.5 |

