

BGO Scintillator

Bismuth Germanate ($\text{Bi}_4\text{Ge}_3\text{O}_{12}$) commonly abbreviated as BGO, is a crystal scintillator material that can emit green fluorescent light with a peak wavelength of 480 nm, colorless, transparent and insoluble in water.

We now could grow the BGO crystal with maximum cylinder at $\varnothing 76$ mm x 300 mm length, while 40x80x200 mm rectangular shape by Bridgman technique.

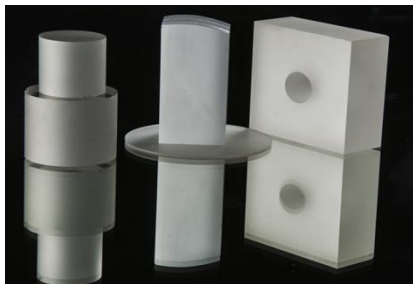
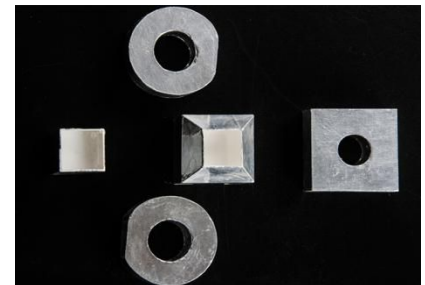
With regard to the further treatment of BGO crystal, we could do holes-drilling, reflector coating and matrix assembly etc.

Melting point[k]	Density (g/cm ³)	Cleavage plane	Hardness (Mho)	hygroscopic	Wavelength of emission Max[nm]	Refractive index @ emission Max	Primary decay time [ns]	Light yield [photons /keV _γ]	Photoelectron yield [%of NaI(Tl)] (for γ-rays)
1323	7.13	no	5	no	480	2.15	300	8-10	20-25

Features

High density

High photon fraction for high energy Gamma from naturally occurred Uranium and Thorium



Application

High energy physics

Geological exploration

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문의처

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