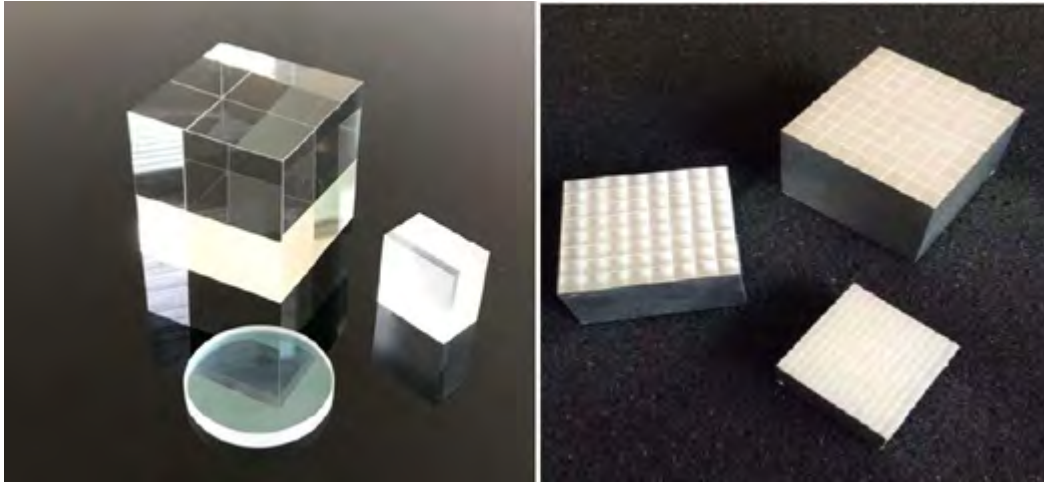




## BGO Crystal



Density (g/cm <sup>3</sup> )	7.13
Melting Point (°C)	1323
Hardness (Mohs)	5
Decay time (ns)	300
Wavelength of emission max (nm)	480
Light yield (Photons/keV $\gamma$ )	8-10
Index of Refraction	2.15
Hygroscopicity	None

BGO scintillator is one of the most widely used scintillation materials of the oxide type, it is mechanically strong enough, non hygroscopicity, and has high atomic number and density values. BGO crystal has an emission peak of 480 nm, coupling well with PMT and SiPM.

### Key Features

- High density and atomic number
- High absorption coefficient for gamma-ray
- Excellent energy resolution and uniform light output

### Applications:

- Medical imaging (PET)
- Geological Prospecting
- Oil well logging
- High energy physics
- Gamma pulse spectroscopy