

Laser Crystals

NLO Crystals

Birefringent Crystals

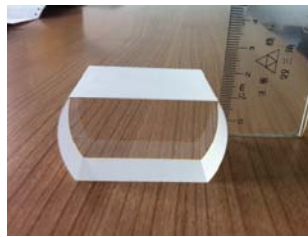
AO and EO Crystals

Magneto-optical Crystal

**Scintillation Crystal**

## BGO

### Introductions



BGO crystals having a cubic structure, colorless transparent crystal, it is not deliquescent. The main emission wavelength is 480nm, close to NaI(Tl) crystal's emission wavelength. BGO crystal has no special requirements of photomultiplier tubes and complex electronic

circuits. BGO size of the detector can be reduced to 60% in the same detector efficiency. BGO crystals used to X-ray tomography, CT industrial due to the high absorption coefficient, low afterglow. Currently, BGO crystals are preferred PET scintillation crystal. We can produce cylinder and rectangular shape BGO crystal and can provide different shapes crystal as customs required.

### Basic Properties

Items	Specification
Relative Light Output (%)	20
Mohs Hardness	5
Cleavage Plane	(100)
Wavelength of Emission Maximum (nm)	480
Density (g/cm <sup>3</sup> )	7.13
Hygroscopicity	Nothing
Melting Point(°C)	1050
Primary Decay Constant(ns)	300
Refractive Index	2.15
Afterglow	0.005%@3mms

BGO

Crystal

BGO 01