



RAICOL
CRYSTALS



BBO

Crystals and EO Cells

Beta-barium borate (BBO) is a versatile nonlinear crystal ideally suited for nonlinear laser interactions.

BBO crystals combine very wide transparency, moderately high nonlinear coupling, high damage threshold and good chemical and mechanical properties. BBO phase matches over a wide range, yielding SHG and OPO from 190 to 1780 nm.

Advantages

- Very wide transparency range
- High damage threshold
- Moderately high nonlinear coefficient
- High optical homogeneity
- Wide temperature-bandwidth

Common Applications

- Second, third, fourth, and fifth harmonic generation of Nd lasers
- Second, third, and fourth harmonic generation of Ti: Sapphire and alexandrite lasers
- SHG of argon, Cu vapor and ruby lasers
- OPO of UV and visible wavelengths
- Electro-optics

