BBO Crystal (Beta Barium Borate)

BBO or beta-BaB₂O₄ is a nonlinear optical crystal which provides an attractive solutions for various nonlinear optical applications, such as second, third and fourth harmonic generation of Nd:YAG and Nd:YLF laser, frequency-doubling, tripling and mixing of Dye lasers, second, third and fourth harmonic generation of Ti:Sapphire and Alexandrite laser, optical parametric amplifier (OPA), optical parametric oscillators (OPO), and more.

Properties:

Physical properties

r Hysical properties				
Hardness (Mohs)		3.5-4.5		
Density, g/cm 3		3.85		
Thermal conductivity, w/m/k		1.2 – 1.6		
Dielectric Constants		$\varepsilon_{11} = 6.7 \; \epsilon_{33} = 8.1$		
Resistivity (× $10^6\Omega m$)		$\rho_{11} = 10.15 \ \rho_{33} = 16.31$		
Optical properties	ВВО			
Optical Homogeneity (cm^{-1})	$\delta_n < 10^{-6}$			
Transparency range, nm	190-3500			
Absorption coefficient at 1064nm		<0.1%		
Refractive indices	n_o	n_e		
Refractive Indices at 0.213µm	1.8465	1.6742		
Refractive Indices at 0.266µm	1.7571	1.61391		
Refractive Indices at 0.355μm	1.7055	1.5775		
Refractive Indices at 0.532μm	1.6750	1.5555		
Refractive Indices at 1.064μm	1.6551	1.5426		

For any other material property, please send your specific request.



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