

# **LBO** Crystals

SUPER POLISHED!

LBO (Lithium Triborate  $LiB_3O_5$ ) is a nonlinear optical crystal ideally suitable for various nonlinear optical applications. LBO crystals combine wide transparency, moderately high nonlinear coupling, high damage threshold and good chemical and mechanical properties.

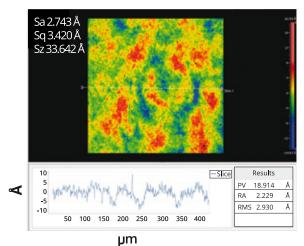
## **Special Advantages of our LBO:**

- Super polished elements for excellent surface quality: roughness < 3Å RMS and scratch dig 2/1</li>
- Very low bulk absorption: up to 2ppm/cm at 1064nm
- Crystal size up to 50x50 mm<sup>2</sup> and maximum length of 40 mm
- Strict quality control

### **Our LBO features:**

- Wide transparency range (160nm 2600nm)
- Moderately high nonlinear coefficient
- · High damage threshold
- Type I and non-critical phase matching in a wide wavelength range
- High optical homogeneity
- Wide acceptance angle and small walk-off angle

#### ROUGHNESS MEASUREMENTS BY ZYGO INTERFEROMETER



## **Common Applications**

Second and third harmonic generation of high power diode pumped
Nd:YAG and Nd:YLF lasers, Alexandrite, Ti:Sapphire, Dye lasers and ultrashort pulse lasers