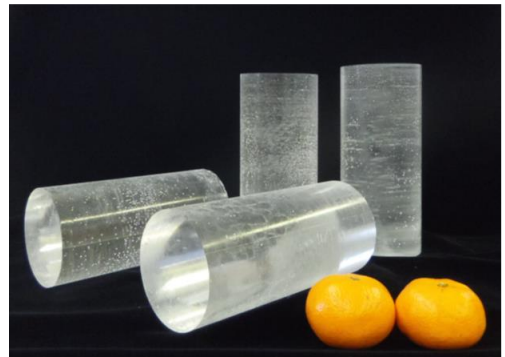


# Li<sub>2</sub>B<sub>4</sub>O<sub>7</sub> ( Lithium Tetraborate (LB4) )

Single Crystal for DUV optics

## Advantages

- ✓ High transmittance at DUV
- ✓ Large size ( $\phi = 84$  mm)
- ✓ Cost effective  
(based on Vertical Bridgman method)

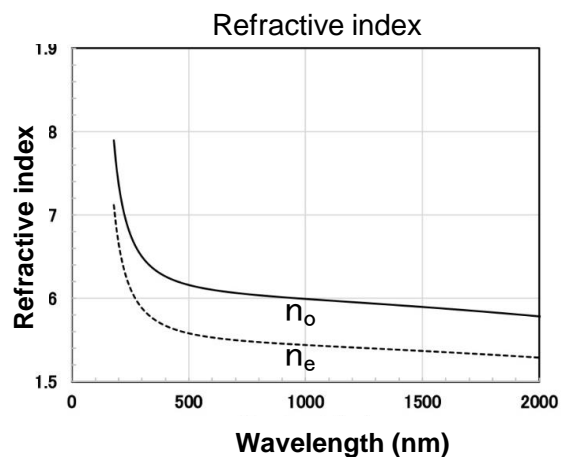
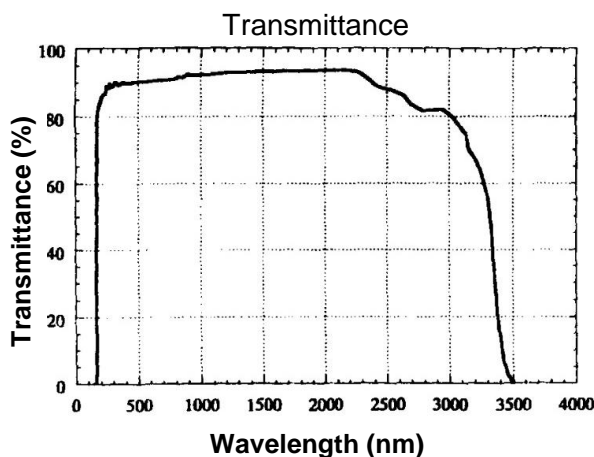


## Optical properties

Transmission range : 170 nm - 3300 nm

Refractive indices :  $n_o=1.775$ ,  $n_e=1.699$  @ 185 nm

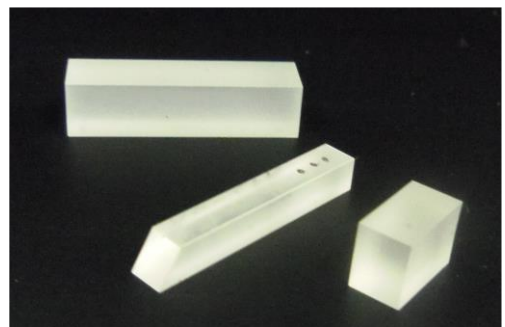
$n_o=1.613$ ,  $n_e=1.556$  @ 546 nm



## Applications

- ✓ DUV Glan-Thompson Polarizer
- ✓ Electro-optic modulator
- ✓ NLO device

Ref: T.Sugawara et. al., Solid State Commun. **107** (1998) 233.



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