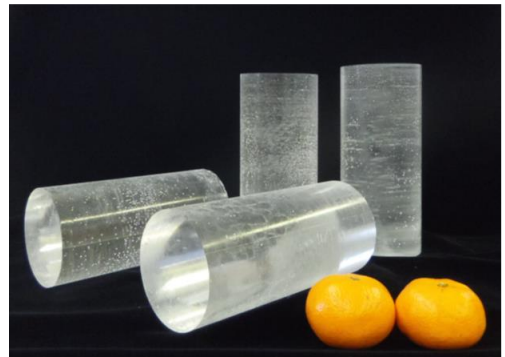


Li₂B₄O₇ (Lithium Tetraborate (LB4))

Single Crystal for DUV optics

Advantages

- ✓ High transmittance at DUV
- ✓ Large size ($\phi = 84$ mm)
- ✓ Large birefringence
- ✓ Transparent down to 170 nm
- ✓ Cost effective
(based on Vertical Bridgman method)

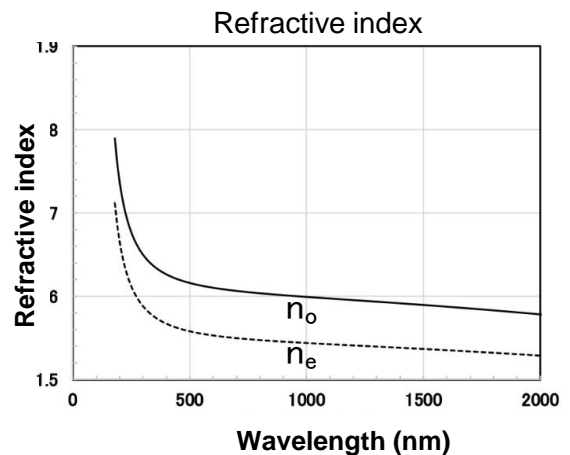
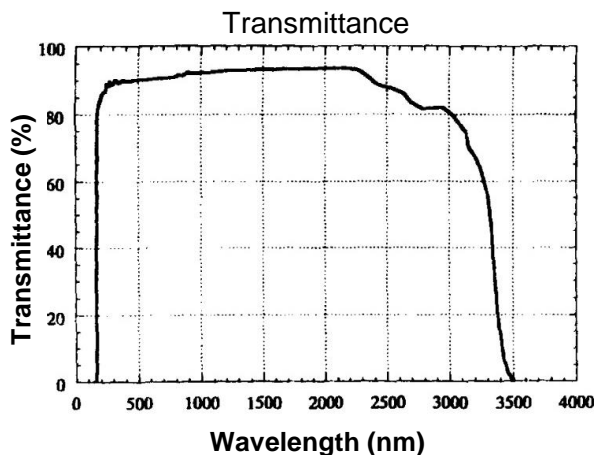


Optical properties

Transmission range : 170 nm - 3300 nm

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

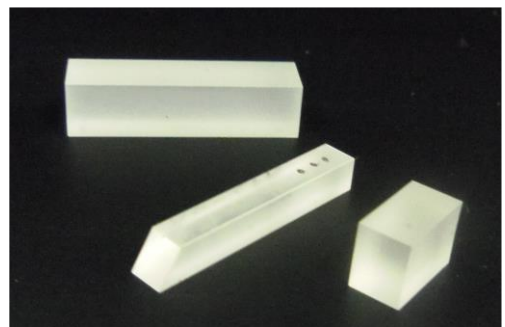
$n_o=1.613$, $n_e=1.556$ @ 546 nm



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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