



Li₂B₄O₇ (Lithium Tetraborate)

Single Crystal for DUV optics

Preliminary

Advantages

- ✓ High transmittance at DUV
- ✓ Large size ($\phi = 100$ mm)
- ✓ Cost effective
(based on Vertical Bridgman method)

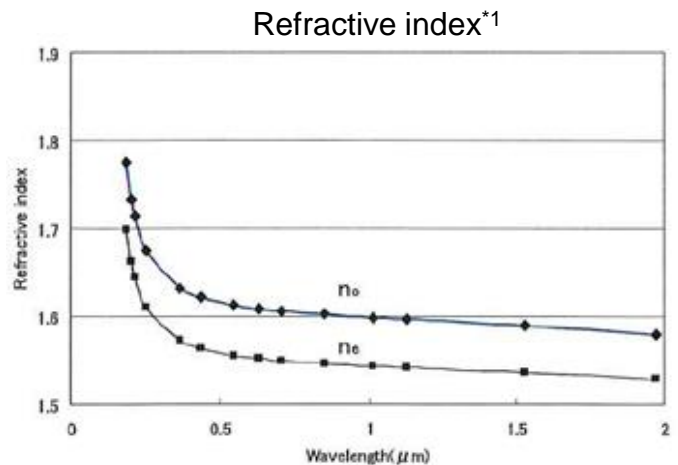
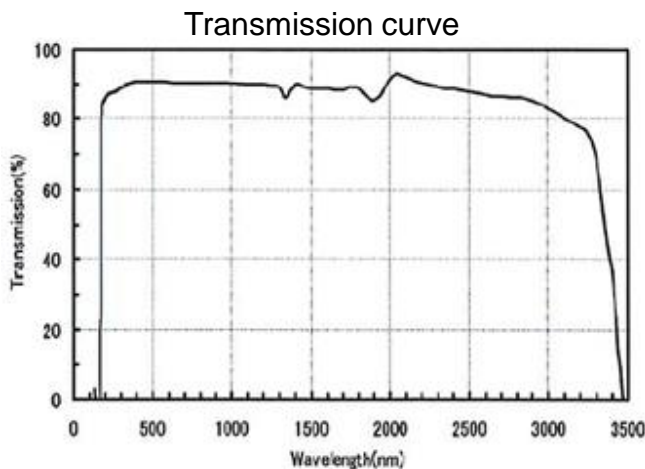


Optical properties

Transmission range: 170 nm ~ 3400 nm

Refractive indices : $n_o=1.774, n_e=1.699$ @ 189 nm

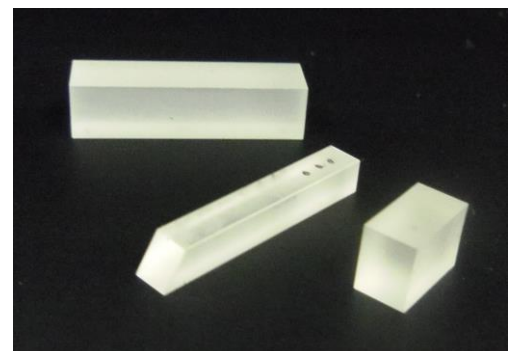
$n_o=1.612, n_e=1.555$ @ 546 nm



*1 T. Sugawara et. al., Solid State Commun. 5, 233 (1998).

Applications

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



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