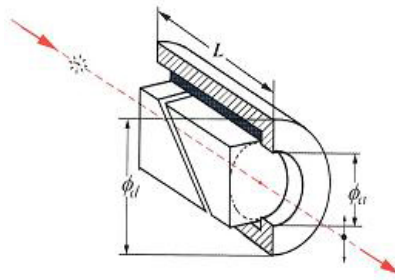


## Glan Taylor Polarizer



Glan Taylor prism polarizer is made of two same birefringent material prisms that are assembled with an air space. It has a length to aperture ratio less than 1.0 makes it a relatively thin polarizer. The polarizer with no side escape windows are suitable for low to medium power online\_ordering where the side rejected beams are not required, which is suitable for a wide variety of online\_orderings, particularly with collimated input beams. The angular field of different materials of polarizers listed below for comparison.

### Features:

Air-spaced

Close to Brewster's Angle Cutting.

High Polarization Purity.

Short Length.

Suitable for low to medium power online\_ordering where the rejected beam is not required.

### Specifications:

Material	$\alpha$ -BBO	Calcite	YVO <sub>4</sub>
Wavelength Range	200~3500nm	350~2300nm	400~4000nm
Extinction Ratio	$<5 \times 10^{-6}$	$<5 \times 10^{-5}$	$<5 \times 10^{-5}$
Parallelism	$<1$ arc min.		
Surface Quality	20-10		
Beam Deviation	$<3$ arc minutes		
Wavefront Distortion	$\lambda/4@633nm$		
Damage Threshold	$>200MW/cm^2$		
Coating	Single Layer MgF <sub>2</sub>		
Mount	Black Anodized Aluminium		

P/N	Material	$\lambda$	Extinction Ratio	Angular Field	C.A.	O.D.	L
71101	$\alpha$ -BBO	200~270nm	$<5 \times 10^{-5}$	$>6.0^\circ$	6.0	15.0	8.0
71102	$\alpha$ -BBO	200~270nm	$<5 \times 10^{-5}$	$>6.0^\circ$	8.0	25.4	10.0
71103	$\alpha$ -BBO	200~270nm	$<5 \times 10^{-5}$	$>6.0^\circ$	10.0	25.4	11.0
71104	$\alpha$ -BBO	200~270nm	$<5 \times 10^{-5}$	$>6.0^\circ$	15.0	30.0	15.0
71105	$\alpha$ -BBO	200~270nm	$<5 \times 10^{-5}$	$>6.0^\circ$	20.0	38.0	19.0

P/N	Material	$\lambda$	Extinction Ratio	Angular Field	C.A.	O.D.	L
71106	$\alpha$ -BBO	300~700nm	$<5 \times 10^{-5}$	$>6.0^\circ$	6.0	15.0	8.0
71107	$\alpha$ -BBO	300~700nm	$<5 \times 10^{-5}$	$>6.0^\circ$	8.0	25.4	10.0
71108	$\alpha$ -BBO	300~700nm	$<5 \times 10^{-5}$	$>6.0^\circ$	10.0	25.4	11.0
71109	$\alpha$ -BBO	300~700nm	$<5 \times 10^{-5}$	$>6.0^\circ$	15.0	30.0	15.0
71110	$\alpha$ -BBO	300~700nm	$<5 \times 10^{-5}$	$>6.0^\circ$	20.0	38.0	19.0
71111	$\alpha$ -BBO	700~3000nm	$<5 \times 10^{-6}$	$>6.0^\circ$	6.0	15.0	8.0
71112	$\alpha$ -BBO	700~3000nm	$<5 \times 10^{-6}$	$>6.0^\circ$	8.0	25.4	10.0
71113	$\alpha$ -BBO	700~3000nm	$<5 \times 10^{-6}$	$>6.0^\circ$	10.0	25.4	11.0
71114	$\alpha$ -BBO	700~3000nm	$<5 \times 10^{-6}$	$>6.0^\circ$	15.0	30.0	15.0
71115	$\alpha$ -BBO	700~3000nm	$<5 \times 10^{-6}$	$>6.0^\circ$	20.0	38.0	19.0
71116	Calcite	350~2300nm	$<5 \times 10^{-5}$	$>7.7^\circ$	6.0	15.0	8.0
71117	Calcite	350~2300nm	$<5 \times 10^{-5}$	$>7.7^\circ$	8.0	25.4	10.0
71118	Calcite	350~2300nm	$<5 \times 10^{-5}$	$>7.7^\circ$	10.0	25.4	11.0
71119	Calcite	350~2300nm	$<5 \times 10^{-5}$	$>7.7^\circ$	15.0	30.0	15.0
71120	Calcite	350~2300nm	$<5 \times 10^{-5}$	$>7.7^\circ$	20.0	38.0	19.0
71121	YVO <sub>4</sub>	500~4000nm	$<5 \times 10^{-6}$	$>6.5^\circ$	6.0	15.0	7.0
71122	YVO <sub>4</sub>	500~4000nm	$<5 \times 10^{-6}$	$>6.5^\circ$	8.0	25.4	9.0
71123	YVO <sub>4</sub>	500~4000nm	$<5 \times 10^{-6}$	$>6.5^\circ$	10.0	25.4	10.0
71124	YVO <sub>4</sub>	500~4000nm	$<5 \times 10^{-6}$	$>6.5^\circ$	15.0	30.0	12.0
71125	YVO <sub>4</sub>	500~4000nm	$<5 \times 10^{-6}$	$>6.5^\circ$	20.0	38.0	15.0

- Demension unit:mm
- Other sizes and coatings are available upon request.