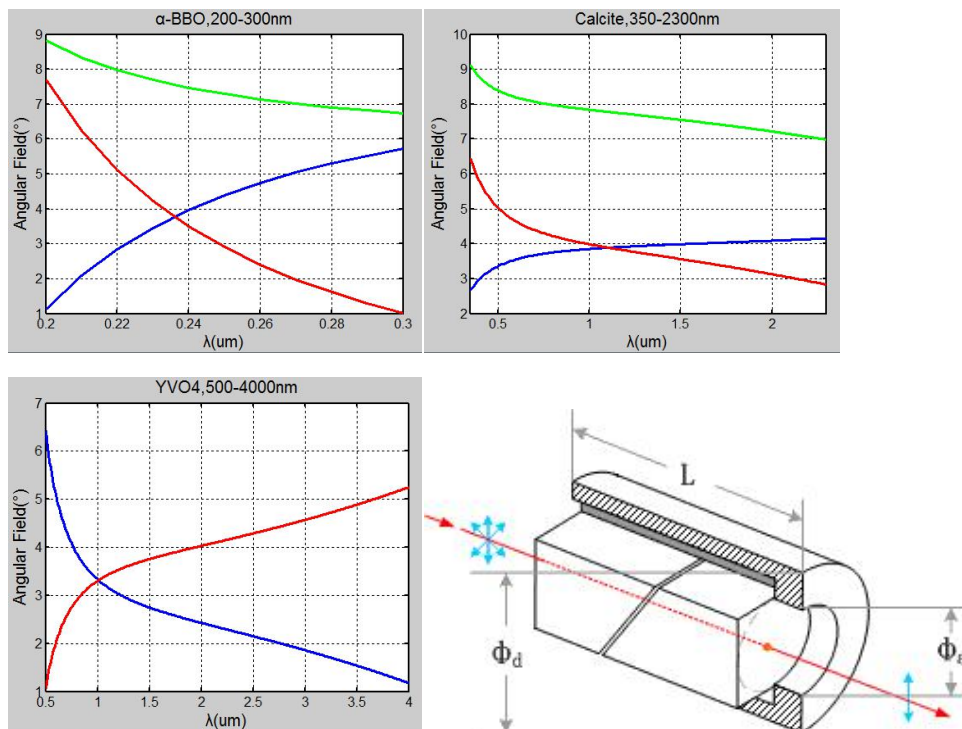


Glan Taylor Polarizer

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.

Angular Field vs Wavelength



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	a -BBO, Calcite or YVO4
Wavelength Range	a -BBO: 200-3500 nm, Calcite: 350-2300 nm, YVO4: 400-5000 nm
Extinction Ratio	Calcite:<math><5 \times 10^{-5}</math>; a -BBO:<math><5 \times 10^{-6}</math>; YVO4:<math><5 \times 10^{-6}</math>)
Parallelism	<math><1</math> arc Min
Surface Quality	20/10
Beam Deviation	<math><3</math> arc minutes
Waveformt Distortion	1/4@633nm
Damage Threshold	>200 MW/cm ²
Coating	Single Layer MgF ₂
Mount	Black Anodized Aluminum

1. a-BBO Glan Taylor Polarizer

Part NO.	Wavelength Range(nm)	Extinction Ratio	Angular Field	C.A.φa (mm)	O.D.φd (mm)	L(mm)
PGT1206	200~270nm	$<5 \times 10^{-6}$	$>6.0^\circ$	6.0	15.0	15.0
PGT1208				8.0	25.4	17.0
PGT1210				10.0	25.4	19.0
PGT1212				12.7	25.4	21.0
PGT1215				15.0	30.0	23.0
PGT1306	300~700nm	$<5 \times 10^{-6}$	$>6.0^\circ$	6.0	15.0	15.0
PGT1308				8.0	25.4	17.0
PGT1310				10.0	25.4	19.0
PGT1312				12.0	25.4	21.0
PGT1315				15.0	30.0	23.0
PGT1320				20.0	38.0	29.0
PGT1706	700~3000nm	$<5 \times 10^{-6}$	$>6.0^\circ$	6.0	15.0	15.0
PGT1708				8.0	25.4	17.0
PGT1710				10.0	25.4	19.0
PGT1712				12.0	25.4	21.0
PGT1715				15.0	30.0	23.0
PGT1720				20.0	38.0	29.0

2. Calcite Glan Taylor Polarizer

Part NO.	Wavelength Range(nm)	Extinction Ratio	Angular Field	C.A.φa (mm)	O.D.φd (mm)	L(mm)
PGT2006	350~2300nm	$<5 \times 10^{-6}$	$>7.7^\circ$	6.0	15.0	15.0
PGT2008				8.0	25.4	17.0
PGT2010				10.0	25.4	19.0
PGT2012				12.7	25.4	21.0
PGT2015				15.0	30.0	23.0
PGT2020				20.0	38.0	29.0

3. YVO4Glan Taylor Polarizer

Part NO.	Wavelength Range(nm)	Extinction Ratio	Angular Field	C.A.φa (mm)	O.D.φd (mm)	L(mm)
PGT3006	500~4000nm	$<5 \times 10^{-6}$	$>6.5^\circ$	6.0	15.0	12.0
PGT3008				8.0	25.4	12.0
PGT3010				10.0	25.4	17.0
PGT3012				12.7	25.4	19.0
PGT3015				15.0	30.0	20.0
PGT3020				20.0	38.0	25.0