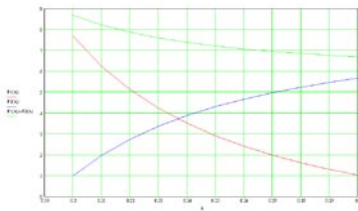


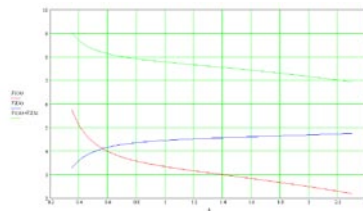
Glan Taylor polarizer is made of two same birefringent material prisms that are assembled with an air space. Its length to aperture ratio which is less than 1.0 makes it a relatively thin polarizer. The polarizer with no side escape windows is suitable for low to medium power application where the side rejected beams are not required. The angular field of different materials of polarizers is listed below for comparison.



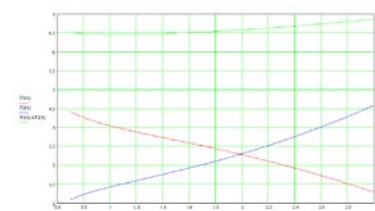
Angular Field vs Wavelength



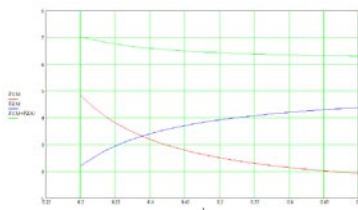
a-BBO, 200-300nm



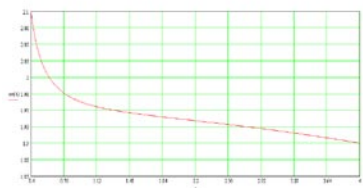
a-BBO, 300-700nm



a-BBO, 700-3000nm



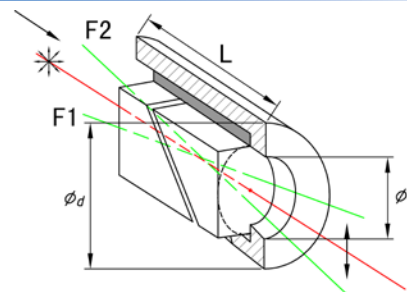
Calcite, 350-2300nm



YVO₄, 400-4000nm

Features

- Air-spaced
- Close to Brewster's Angle Cutting
- High Polarization Purity
- Short Length
- Suitable for low to medium power application where the rejected beam is not required



Glan-Taylor Prism

Specifications

Material	a-BBO, Calcite or YVO ₄
Wavelength Range	a-BBO: 200-3500 nm, Calcite: 350-2300 nm, YVO ₄ : 400-4000 nm
Extinction Ratio	Calcite: <math><5 \times 10^{-5}</math> ; a-BBO: <math><5 \times 10^{-6}</math> ; YVO ₄ : <math><5 \times 10^{-6}</math>
Surface Quality	20-10
Beam Deviation	< 3 arc minutes
Wavefront Distortion	<math>< \lambda/4 @ 633\text{nm}</math>
Damage Threshold	>200 MW/cm ²
Coating	Single MgF ₂
Mount	Black Anodized Aluminium

Glan Taylor Polarizers

Standard Products

1. α-BBO Glan Taylor Polarizer

Part No.	Wavelength Rang(nm)	Extinction Ratio	Angular Field(°)	C.A. φa (mm)	O.D. φd (mm)	L±0.1(mm)	Unit price
PGT6206				6	15	15	\$298
PGT6208				8	25.4	17	\$328
PGT6210	200-270	<5x10 ⁻⁶	>6.0	10	25.4	19	\$398
PGT6215				15	30	23	\$598
PGT6220				20	38	29	\$898
PGT6306				6	15	15	\$298
PGT6308				8	25.4	17	\$328
PGT6310	300-700	<5x10 ⁻⁶	>6.0	10	25.4	19	\$398
PGT6315				15	30	23	\$598
PGT6320				20	38	29	\$898
PGT6706				6	15	15	\$298
PGT6708				8	25.4	17	\$328
PGT6710	700-3000	<5x10 ⁻⁶	>6.0	10	25.4	19	\$398
PGT6715				15	30	23	\$598
PGT6720				20	38	29	\$898

2. Calcite Glan Taylor Polarizer

Part No.	Wavelength Rang(nm)	Extinction Ratio	Angular Field(°)	C.A.φa (mm)	O.D. φd (mm)	L±0.1(mm)	Unit price
PGT7006				6	15	15	\$208
PGT7008				8	25.4	17	\$228
PGT7010	350-2300	<5x10 ⁻⁵	>7.7	10	25.4	19	\$278
PGT7015				15	30	23	\$389
PGT7020				20	38	29	\$678

3. YVO4 Glan Taylor Polarizer

Part No.	Wavelength Rang(nm)	Extinction Ratio	Angular Field(°)	C.A. φa (mm)	O.D. φd (mm)	L±0.1(mm)	Unit price
PGT8006				6	15	12	\$238
PGT8008				8	25.4	15	\$268
PGT8010	500-4000	<5x10 ⁻⁶	>6.5	10	25.4	17	\$338
PGT8015				15	30	20	\$518
PGT8020				20	38	25	\$798