Glan-Thompson Polarizer

Calcite is a naturally occurring birefringent crystal. By precisely controlling internal prism angles in these calcite polarizers, a very efficient linear polarizer is produced.

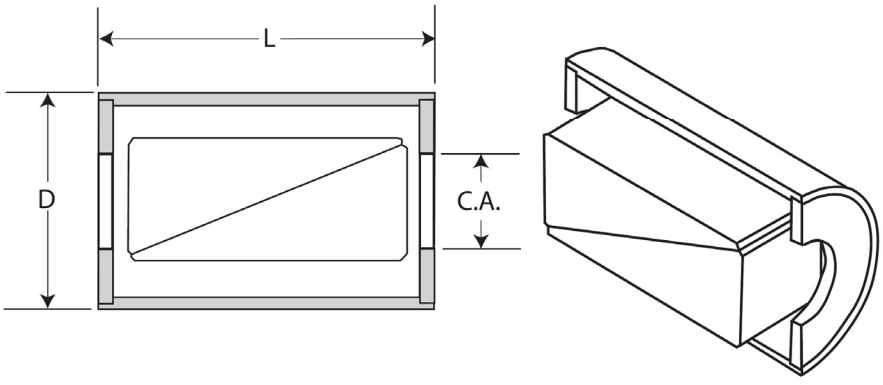
Meadowlark Optics offers Glan-Thompson Polarizers, intended for precision optical instrumentation and low power laser applications. Key advantages of Glan-Thompson Polarizers include excellent extinction ratio performance and a broad spectral range.

Our Glan-Thompson Polarizers are supplied in a black anodized cylindrical housing for easy mounting. The housing is marked to indicate the polarization axis of the transmitted beam. The rejected component of the beam is totally internally reflected and eventually absorbed by the anodized aluminum.

Although raw calcite material transmits down to 215 nm, the cement interface limits ultraviolet transmission. For this reason, we recommend Glan-Thompson Polarizers for use over 320 – 2300 nm.

Three antireflection coating options cover the visible to near infrared range. Uncoated Glan-Thompson Polarizers are also available.

Glan - Thompson Polarizer Construction





Key Features

- Broad spectral range
- Excellent extinction ratio
- Wide field of view
- Low wavefront distortion

Polarization Suite

Linear Polarizers

Precision Linear Polarizer
High Contrast Linear Polarizer
Ultra-High Contrast Linear Polarizer
Glan-Thompson Polarizer
Ultra Broadband Polarizer
MWIR Polarizer
Deep Ultraviolet Polarizer

Beamsplitting Polarizers

Wire Grid Versalight Polarizer
Wire Grid Versalight Beam Splitter
Laser Line Beamsplitting Polarizer
Broadband Beamsplitting Polarizer
Polarizing Bandpass Filter

Circular Polarizers

Dichroic Circular Polarizer
Beam Separator

SPECIFICATIONS	
Material	Grade A Optical Calcite
Extinction Ratio	10,000:1 over central 2/3 of clear aperture
Reflectance (per surface, at normal incidence)	
Uncoated Single layer MgF2	~ 4.5% ~ 1.5%
Beam Deviation	± 3 arc min
Acceptance Angle	± 5˚
Wavelength Range	320 – 2300 nm
Recommended Safe Operating Limit	25-30 W/cm² CW

ORDERING INFORMATION

Clear Aperture (mm)	*Wavelength Range (nm)*	*AR Coating*	*Part Number*
5.0	320 – 2300	None	GTP – M05
5.0	400 – 700	MgF_2	GTP – M05 – 0550
5.0	650 – 1000	MgF_2	GTP – M05 – 0825
5.0	1000 – 1500	MgF_2	GTP – M05 – 1250
8.0	320 – 2300	None	GTP – M08
8.0	400 – 700	MgF_2	GTP – M08 – 0550
8.0	650 – 1000	MgF_2	GTP – M08 – 0825
8.0	1000 – 1500	MgF_2	GTP – M08 – 1250
10.0	320 – 2300	None	GTP – M10
10.0	400 – 700	MgF_2	GTP – M10 – 0550
10.0	650 – 1000	MgF_2	GTP – M10 – 0825
10.0	1000 – 1500	MgF_2	GTP – M10 – 1250

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