

Glan Polarizers

Glan polarizers made from select-grade calcite prism pairs with the interface angles optimised for minimum insertion loss, assembled air-spaced. Glan-laser polarizers have two escape windows that let the rejected beam leave the polarizer, and are normally used in Q-switched laser cavities and other multiple-pass applications. Glan-Taylor and Glan-Thompson polarizers are also available.

Glan-Taylor polarizer

Parameter	Value
Material	a-BBO, Calcite, YVO4
Wavelength Range	a-BBO: 220-3000nm; Calcite: 350-2300nm; YVO4: 500-4000nm
Extinction Ratio	<5×10 ⁻⁶
Surface Quality	20/10 scratch and dig
Beam Deviation	< 3 arc minutes
Wavefront Distortion	·/4@632.8nm
Damage Threshold	> 10 MW/cm ²
Coating	Single Layer MgF2@1064nm
Mount	Black Anodized

Glan-Laser polarizer

Parameter	Value
Material	a-BBO, Calcite, YVO4
Wavelength Range	a-BBO: 220-3000nm; Calcite: 350-2300nm; YVO4: 500-4000nm
Extinction Ratio	<5×10 ⁻⁶
Surface Quality	20/10 scratch and dig
Beam Deviation	< 3 arc minutes
Wavefront Distortion	·/4@632.8nm
Damage Threshold	>500MW/cm ²
Coating	Single Layer MgF2@1064nm
Mount	Black Anodized

Glan-Thompson polarizer

Parameter	Value
Material	Calcite
Wavelength Range	400-2300nm
Extinction Ratio	<5×10 ⁻⁶
Surface Quality	20/10 scratch and dig
Beam Deviation	< 3 arc minutes
Wavefront Distortion	·/4@632.8nm
Damage Threshold	> 10MW/cm ²
Coating	Single Layer MgF2@1064nm
Mount	Black Anodized Aluminum