ULTRAFAST POLARIZERS

ARO offers <u>thin film polarizers</u> that have been designed to provide the top performance in Ti:Sapphire amplifiers. Multiple round trips in the amplifier have a multiplying effect on the characteristics of any optic in the cavity. The ARO sales team can offer a free estimate for custom thin film polarizers.



PARTS CATALOG

Close cooperation between the ARO design staff and leading researchers has led to the development of an advanced ultrafast polarizer, <u>UV polarizer</u> and a <u>high energy polirizer</u>. ARO's polarizers are designed with an optimum combination of a high extinction ratio, spectral bandwidth, laser damage resistance, and minimal group delay dispersion. In addition to a broadband ultrafast polarizer, ARO can custom produce a wide selection of polarizers. Reach out to ARO's sales team for a free quote and consultation.

Part Number	Wavelength (nm)	Diameter (mm)	Thickness (mm)	Angle of Incidence	Reflectivity (%)
<u>PL6020</u>	740 – 860	28.6 x 14.3	3.2	70°±3°	98/75
<u>PL6040</u>	700 – 900	28.6 x 14.3	3.2	70°±3°	75/95

SPECIFICATIONS

- Clear Aperture: 85% best fit ellipse
- Wedge: <5 arc minutes
- Flatness: $\lambda/10$ at 633 nm
- Wavefront Distortion: $< \lambda/10$ at 633 nm
- Surface Quality: 10-5
- Material: Fused Silica
- Length/Width Tolerance: +0.00, -0.13 mm
- Thickness Tolerance: ±0.25 mm

TI:SAPPHIRE POLARIZATION

These high performance, thin film polarizers are coated to separate orthogonal polarizations with a high extinction ratio. They are designed for use over a broad spectral bandwidth centered on 800 nm. They are intended to be used at Brewster's angle, and should be tilt tuned $(\pm 3^{\circ})$ to optimize performance.



