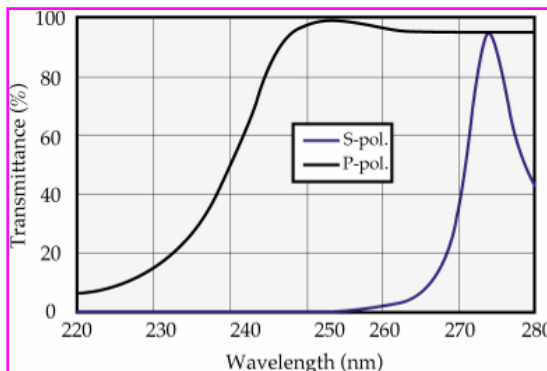


# UV Plate Polarizers

Thin film plate polarizers are one of the best ways of creating a highly polarized output while handling the high energy UV sources. The film consists of a stack of reflecting surfaces, each of which polarizes the incident radiation by reflective polarization and must be used at, or close to, the Brewster angle for UV Fused Silica (56°).

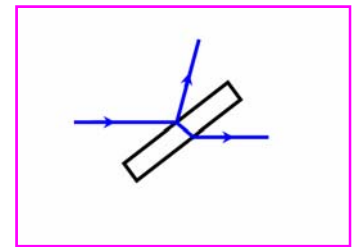


The reflected beam contains only s-polarized light and the p-polarized component is transmitted. Thin film plate polarizers produce an extinction ratio in excess of 100:1 and they easily handle energy levels of 5 J/cm<sup>2</sup> (10ns).

These polarizers are produced on highly polished substrates of UV Fused Silica. They are circular or rectangular in shape—typical sizes are 25.4 and 50.8 mm diameter or 28 x 14 mm rectangles.



We can supply high power thin film UV plate polarizers for the following wavelengths: 248, 266, 308, 355 nm



Please provide us with full details of your specific requirements.

Typical Specifications	
Substrate Material:	UVFS
Surface flatness:	$\lambda/10$ @ 633 nm
Surface quality:	10/5
Extinction Ratio:	> 100:1
Reflectance:	$R_s > 99\%$
Transmittance:	$T_p > 90\%$
AOI for peak polarization:	55° - 62°
Parallelism:	< 3 arcmin
Diameter:	+0.0 / -0.2 mm
Thickness:	$\pm 0.25$ mm
Clear aperture:	> 85% of diameter
Damage Threshold:	> 5J/cm <sup>2</sup> , 10 ns

**To request a quote or to order, please specify:**

Quantity — Aperture — Circle or Rectangle — Wavelength

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For a quotation — please phone, fax or email us with details of your requirements.