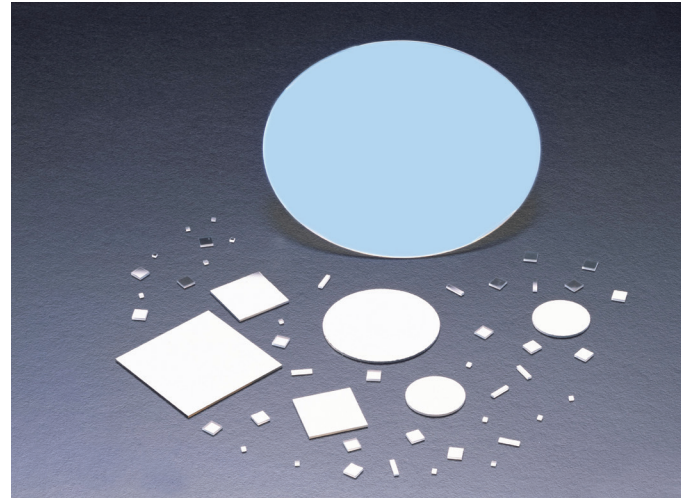


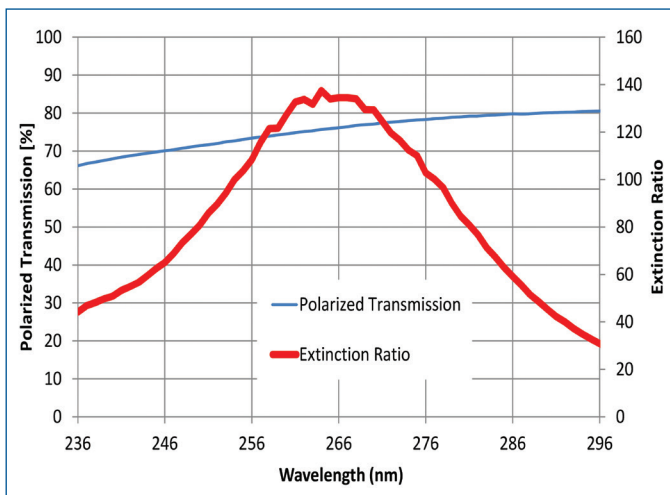
DEEP ULTRAVIOLET POLARIZER

Developed for wavelengths between 245 and 285 nm, this polarizer is ideal for applications around 266 nm. Additionally, this polarizer is transparent in the visible range, allowing visible light to easily pass through.

The UV Polarizer has a proprietary structure that allows for a high laser damage threshold. Custom shapes and sizes are possible due to the large manufactured substrates. Please contact your Meadowlark Optics Sales Engineer for assistance with your custom needs.



Transmission and Contrast vs. Wavelength



Typical measured contrast ratio (red) and transmission (blue) over relevant wavelength range.

Applications

- Deep UV lithography and metrology
- Ultraviolet (266 nm) laser optics
- Semiconductor wafer processing
- Surface polarimetry
- Astronomical polarimetry
- LC photo alignment

Key Features

- 245 to 285 nm
- Wire grid polarizer
- High damage threshold
- Transmission of > 60%
- Contrast Ratio up to 150:1

SPECIFICATIONS	
Substrate Material	Fused Silica, 1.0 mm thick
Wavelength Range	245 - 285 nm
Transmitted Wavefront Distortion	$\leq \lambda/2$ (P - V @ 633 nm) [$\leq \lambda/8$ (RMS @ 633 nm)]
Surface Quality	40-20 scratch-dig
Beam Deviation	≤ 5 arc min
Acceptance Angle	$0^\circ \pm 6^\circ$
Operating Temperature	-40° C to +80° C
Custom sizes and shapes are available. Please contact your Meadowlark Optics Sales Engineer for a custom quote.	

ORDERING INFORMATION		
Mounted Square		
<i>Dimensions</i>	<i>Clear Aperture</i>	<i>Square Part Number</i>
Up to 2.00 in. [50.8 mm]	Up to 1.20 in. [30.5 mm]	Custom Options Available (Please Inquire)
Unmounted Square		
0.50 in. [12.7 mm]	0.40 in. [10.2 mm]	DUV-050-0266S
1.00 in. [25.4 mm]	0.80 in. [20.3 mm]	DUV-100-0266S
2.00 in. [50.8 mm]	1.60 in. [40.6 mm]	DUV-200-0266S
Unmounted Round		
2.00 in. [50.8 mm]	1.60 in. [40.6 mm]	DUV-200-0266

