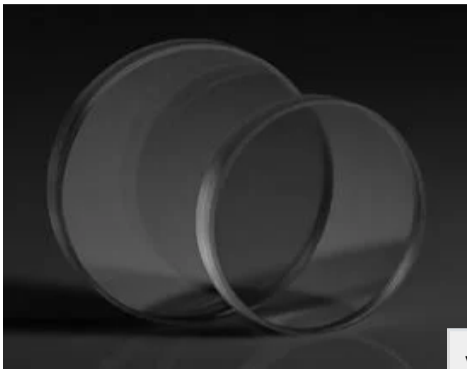


[All Products](#) / [Optics](#) / [Polarization Optics](#) / [Linear Polarizers](#) / [Absorptive \(Dichroic\) Polarizers](#) / [Laminated Film Polarizers](#) / [High Contrast Glass Linear Polarizers \(XP42\)](#)

[« See all 12 Products in Family](#)

## TECHSPEC® 50mm Dia., VIS Coated, Linear Glass Polarizer (XP42)



Stock #19-652 **20+ In Stock**

1 C\$284<sup>.20</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-9	C\$284.20 each
Qty 10-25	C\$256.20 each
Need More?	<a href="#">Request Quote</a>

Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
Spec Sheets:pdf	
eDrawing:eprt	
EO Spec Sheet	<a href="#">Download All</a>

### General

**Type:** Linear Polarizer

### Physical & Mechanical Properties

<b>Diameter (mm):</b> 50.00	<b>Thickness (mm):</b> 2.00 ±0.10
<b>Dimensional Tolerance (mm):</b> +0.00/-0.20	<b>Construction:</b> Laminated Glass Polarizing Film

### Optical Properties

<b>Coating:</b> VIS AR Coated	<b>Extinction Ratio:</b> 9000:1 @ 546nm
<b>Substrate:</b> <a href="#">XP42</a> Laminated Between Glass	<b>Transmission (%):</b> 45 @ 546nm
<b>Coating Specification:</b> R <sub>avg</sub> <0.5% @ 425 - 700nm	<b>Wavelength Range (nm):</b> 425 - 700
<b>Polarization Efficiency (%):</b> >99.98 @ 546nm	

### Environmental & Durability Factors

<b>Operating Temperature (°C):</b> -10 to +55	
---	--

### Regulatory Compliance

<b>RoHS 2015:</b> <a href="#">Compliant</a>	<b>Certificate of Conformance:</b> <a href="#">View</a>
<b>Reach 235:</b> <a href="#">Compliant</a>	

**Need different specs or modifications?**

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

- Uncoated and Visible AR Coated Options
- >99.98% Polarization Efficiency
- 42% Transmission for Uncoated and 45% Transmission for AR Coated Versions
- XP42 **Plastic** and **Film** Also Available

TECHSPEC® High Contrast Glass Linear Polarizers (XP42) are a high transmission, high efficiency solution that are ideal for a broad range of industrial and laboratory applications. Featuring a >99.98% polarization efficiency and an extinction ratio of 9000:1, these polarizers are constructed with an **XP42 high contrast linear polarizing film** laminated between two pieces of optical grade glass. TECHSPEC High Contrast Glass Linear Polarizers (XP42) are available uncoated or with a visible AR coating that provides increased transmission from 425 – 700nm. Typical single filter transmission with randomly polarized incident light is 42% for the uncoated options and 45% for the AR coated options.

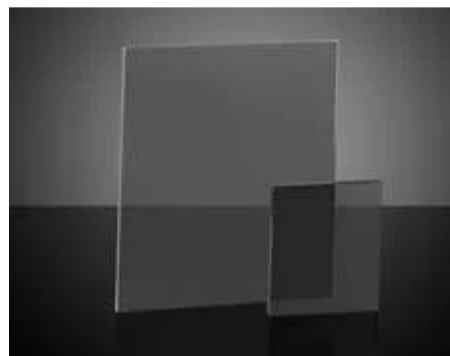
## Related Products



High Contrast Plastic Linear Polarizers (XP42-200 & XP42-300)



High Contrast Linear Polarizing Film (XP42)



Linear Polarizers



Polarizer Mounts

## Frequently Purchased Together



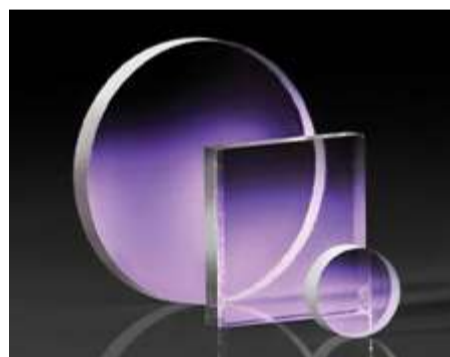
#32-945 - 25mm Dia Enhanced Aluminum, 4-6λ Mirror  
C\$43.40

Qty



#43-787 - 50mm Diameter Unmounted, Linear Glass Polarizing Filter  
C\$85.40

Qty



#43-893 - 50mm Diameter x 3.3mm Thickness, Uncoated, BOROFLOAT® Window  
C\$47.95

Qty



#49-534 - 25.0mm Diameter x -25 FL, NIR I Coated, Plano-Concave Lens  
C\$72.10

Qty

