

[See all 12 Products in Family](#)

**TECHSPEC® 12.5mm Dia., VIS Coated, Linear Glass Polarizer (XP42)**



Stock #19-647 **12 In Stock**

- 1 + €139<sup>.00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-9	€139,00 each
Qty 10-25	€121,30 each
Need More?	<a href="#">Request Quote</a>

**i** Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Linear Polarizer **Type:**

**Physical & Mechanical Properties**

12.50 **Diameter (mm):**

2.00 ±0.10 **Thickness (mm):**

**Dimensional Tolerance (mm):**  
+0.00/-0.20

**Construction:**  
Laminated Glass Polarizing Film

## Optical Properties

**Coating:**  
VIS AR Coated

**Extinction Ratio:**  
9000:1 @ 546nm

**Substrate:**   
[XP42](#) Laminated Between Glass

**Transmission (%):**  
45 @ 546nm

**Coating Specification:**  
 $R_{avg} < 0.5\%$  @ 425 - 700nm

**Wavelength Range (nm):**  
425 - 700

**Polarization Efficiency (%):**  
>99.98 @ 546nm

## Environmental & Durability Factors

**Operating Temperature (°C):**  
-10 to +55

## Regulatory Compliance

**RoHS 2015:**  
[Compliant](#)

**Certificate of Conformance:**  
[View](#)

**Reach 235:**  
[Compliant](#)

## 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.

## Custom

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](#).