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



Stock #19-647 **10 In Stock**

- 1 + £111<sup>.20</sup>

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Volume Pricing	
Qty 1-9	£111.20 each
Qty 10-25	£97.04 each
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**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<sub>avg</sub> < 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

## 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.