

TECHSPEC® 50.8mm Dia. Linear Plastic Polarizer (XP42-200)



Stock #85-922 **20+ In Stock**

⊖ 1 ⊕ €39¹⁴

ADD TO CART

Volume Pricing	
Qty 1-5	€39,14 each
Qty 6-49	€31,42 each
Qty 50-99	€29,36 each
Need More?	Request Quote

1 Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Linear Polarizer **Type:**

Physical & Mechanical Properties

50.80 +0.0/-0.5 **Diameter (mm):**

2.22 ±0.25 **Thickness (mm):**

Polarizing Film on PMMA **Construction:**

Optical Properties

9000:1 **Extinction Ratio:**

[XP42-200 on PMMA](#) **Substrate:**

Single: 42
Parallel: 36
Crossed: <0.004 **Transmission (%):**

400 - 700 **Wavelength Range (nm):**

>99.98 **Polarization Efficiency (%):**

Environmental & Durability Factors

-40 to +80 **Operating Temperature (°C):**

Regulatory Compliance

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

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

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

PRODUCT DETAILS

- Excellent Extinction Ratio of 9000:1
- Increased Durability through Lamination on PMMA
- High Transmission of Unpolarized Light from 400 – 700nm

TECHSPEC® High Contrast Plastic Linear Polarizers (XP42-200 & XP42-300) are ideal for a variety of imaging applications. Offered in multiple sizes, these linear polarizers feature an excellent extinction ratio and high transmission of unpolarized light from 400 – 700nm. The plastic substrate results in a lightweight polarizer, ideal for weight constrained applications. TECHSPEC® High Contrast Plastic Linear Polarizers (XP42-200 & XP42-300) offer increased durability compared to [polarizing film](#).

When unpolarized light enters a linear polarizer, the light that is polarized perpendicular to the polarization axis is absorbed, and light parallel to the polarization axis is transmitted. TECHSPEC® High Contrast Plastic Linear Polarizers (XP42-200) utilize a stretched PVA film to create the polarization axis. To increase durability, the film is then laminated between two plastic plates.

Note: These linear polarizers are not recommended for laser applications.

Immediate Custom Quotes Available

If you have a need for any round, square, or rectangular size of a TECHSPEC High Contrast Plastic Linear Polarizers (XP42-200) in dimensions between 3mm and 600mm, please visit our [Polarizing Film Tool](#). We'll provide an immediate quote, and can deliver the part to your requested size in approximately 3 weeks. A full list of standard manufacturing tolerances and restrictions are listed. For fully customized polymer polarizers to your requirements, visit our [Customized Polymer Polarizers Capabilities](#) page.

TECHNICAL INFORMATION

