

[See all 20 Products in Family](#)

TECHSPEC® 12.5mm Dia. Linear Plastic Polarizer (XP42-200)



Stock **#85-917** **20+ In Stock**

- 1 + C\$37⁴⁵

ADD TO CART

Volume Pricing	
Qty 1-5	C\$37.45 each
Qty 6-49	C\$29.68 each
Qty 50-99	C\$28.14 each
Need More?	Request Quote

Product Downloads

General

Linear Polarizer **Type:**

Physical & Mechanical Properties

12.50 +0.0/-0.3 **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

