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



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

- 1 + **SS\$37<sup>45</sup>**

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Volume Pricing	
Qty 1-5	<b>SS\$37.45</b> each
Qty 6-49	<b>SS\$29.68</b> each
Qty 50-99	<b>SS\$28.14</b> each
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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

