

[See all 20 Products in Family](#)

**TECHSPEC® 300 x 300mm Linear Plastic Polarizer (XP42-200)**



Stock **#86-199** **5 In Stock**

⊖ 1 ⊕ **\$357<sup>00</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1-5	<b>\$357.00</b> each
Qty 6-49	<b>\$285.32</b> each
Qty 50-99	<b>\$268.24</b> each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Linear Polarizer **Type:**

**Physical & Mechanical Properties**

300.00 **Length (mm):**

300.0 x 300.0 ±3.0 **Dimensions (mm):**

2.22 ±0.25	<b>Thickness (mm):</b>
Polarizing Film on PMMA	<b>Construction:</b>
300.00	<b>Width (mm):</b>

## Optical Properties

9000:1	<b>Extinction Ratio:</b>
<a href="#">XP42-200 on PMMA</a>	<b>Substrate:</b> <input type="checkbox"/>
Single: 42 Parallel: 36 Crossed: <0.004	<b>Transmission (%):</b>
400 - 700	<b>Wavelength Range (nm):</b>
>99.98	<b>Polarization Efficiency (%):</b>

## Environmental & Durability Factors

-40 to +80	<b>Operating Temperature (°C):</b>
------------	------------------------------------

## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 235:</b>

## 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](#).

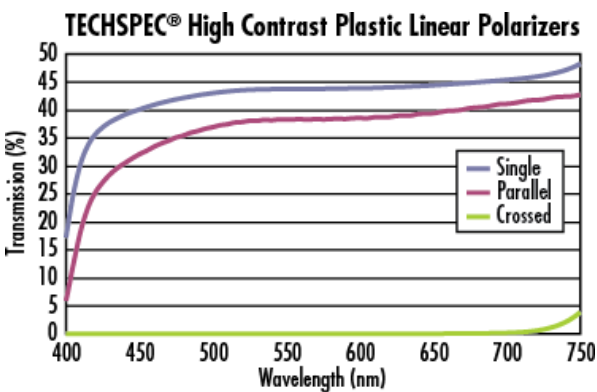
When unpolarized light enters a linear polarizer, the light that is polarized perpendicular to the polarization axis is absorbed, and light parallel to the polarization axis is transmitted. TECHSPEC® High Contrast Plastic Linear Polarizers (XP42-200) utilize a stretched PVA film to create the polarization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





The polarization axis (P) is marked  
by a 0.2mm line on rectangular and  
square parts.  
 $\alpha = 0 \pm 2'$