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**TECHSPEC® 150 x 150mm Linear Plastic Polarizer (XP42-200)**



Stock **#86-196** **7 In Stock**

⊖ 1 ⊕ **S\$226<sup>.00</sup>**

**ADD TO CART**

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | <b>S\$226.80</b> each         |
| Qty 6-49       | <b>S\$181.86</b> each         |
| Qty 50-99      | <b>S\$170.24</b> each         |
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Product Downloads

**General**

Linear Polarizer **Type:**

**Physical & Mechanical Properties**

150.00 **Length (mm):**

150.0 x 150.0 ±1.0 **Dimensions (mm):**

|                         |                        |
|-------------------------|------------------------|
| 2.22 ±0.25              | <b>Thickness (mm):</b> |
| Polarizing Film on PMMA | <b>Construction:</b>   |
| 150.00                  | <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<br>Parallel: 36<br>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](#).

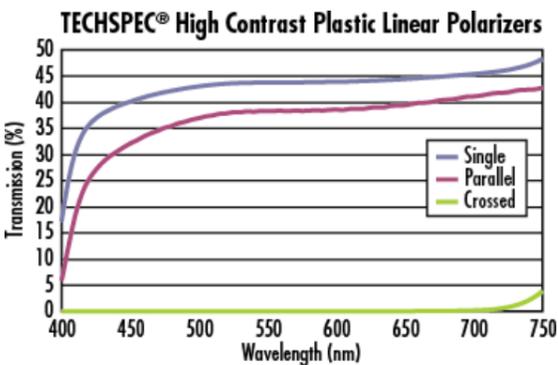
When unpolarized light enters a linear polarizer, the light that is polarized perpendicular to the polarization axis is absorbed, and light parallel to the polarization axis is transmitted. TECHSPEC® High Contrast Plastic Linear Polarizers (XP42-200) utilize a stretched PVA film to create the polarization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

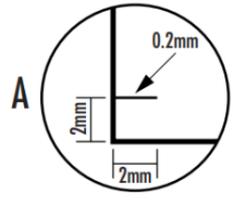
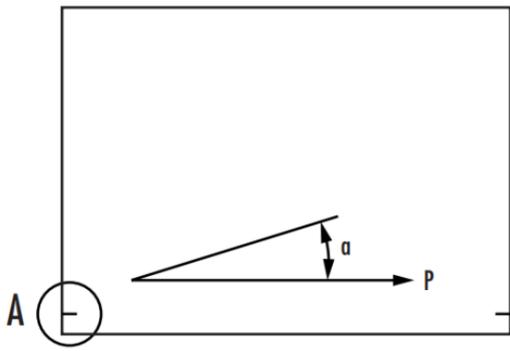
**Note:** These linear polarizers are not recommended for laser applications.

### 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.  
 $\alpha = 0 \pm 2'$