

**TECHSPEC® 50 x 50mm Linear Polarizer (XP42-100)**



Stock #19-954 **20+ In Stock**

⊖ 1 ⊕ C\$40<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-10	C\$40.60 each
Qty 11-25	C\$34.44 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Linear Polarizer **Type:**

**Note:**  
Polarization axis can be identified as follows:  
Circular Parts - Parallel to direction of notch on polarizer  
Square Parts - Parallel to mark on protective film  
Rectangular Parts - Parallel to first listed dimension

**Physical & Mechanical Properties**

**Dimensions (mm):**

50.0 x 50.0 +0.0/-0.5

Thickness (mm):  
1.02 ±0.25

Construction:  
Polarizing Film on PMMA

## Optical Properties

Extinction Ratio:  
up to 9000:1 (nominal at 555nm)

Substrate:   
[Polymer Film XP42-100](#)

Transmission (%):  
Single: 42 ±2  
Parallel: 36.4  
Crossed: <0.004 (nominal at 555nm)

Wavelength Range (nm):  
400 - 700

Polarization Efficiency (%):  
>99.98 (nominal at 555nm)

Transmission Variance after 1000 Hours (%):  
<±5

## Environmental & Durability Factors

Operating Temperature (°C):  
-10 to +60

Operating Humidity:  
≤80% (no condensation)

## Regulatory Compliance

RoHS 2015:  
[Compliant](#)

Certificate of Conformance:  
[View](#)

Reach 247:  
[Compliant](#)

## Product Details

- High Transmission of Unpolarized Light from 400 – 700nm
- Excellent Extinction Ratio of 9000:1
- Available in Custom Sizes
- [High-Temperature](#) Options Also Available

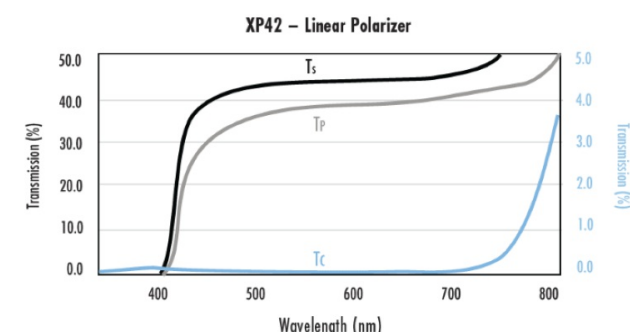
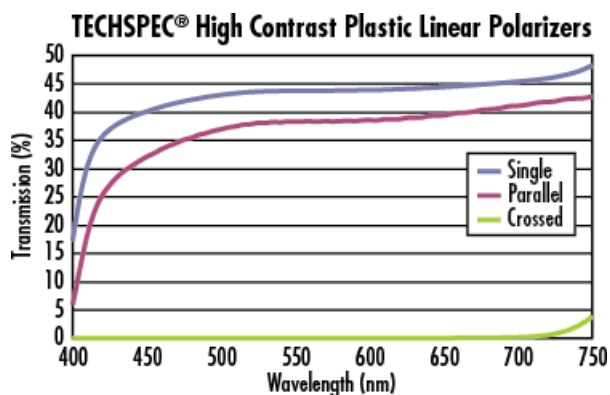
Ideal for a range of imaging applications, TECHSPEC® High Contrast Linear Polarizing Film (XP42) features an excellent extinction ratio and high transmission from 400 – 700nm. This polarizing film is offered in multiple thicknesses; thicker polarizing film has increased rigidity. Available in sheets, TECHSPEC® High Contrast Linear Polarizing Film (XP42) can be cut to fit any application need.

**Note:** Polarizer Film with adhesive available.

### Immediate Custom Quotes Available

If you have a need for any round, square, or rectangular size of a TECHSPEC High Contrast Linear Polarizing Film (XP42) 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



XP44 - Linear Polarizer

