

[See all 72 Products in Family](#)

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



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

MRP ₹2,926

Price inclusive of all taxes

**ADD TO CART**

Volume Pricing	
Qty 1-10	₹2,926 each
Qty 11-25	₹2,482 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**

50.0 x 50.0 +0.0/-0.5 **Dimensions (mm):**

1.02 ±0.25 **Thickness (mm):**

Polarizing Film on PMMA **Construction:**

## Optical Properties

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

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

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

400 - 700 **Wavelength Range (nm):**

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

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

## Environmental & Durability Factors

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

≤80% (no condensation) **Operating Humidity:**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 247:**

Japan **Country of Origin:**

Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
Stage 1, Indiranagar, Bengaluru,  
Karnataka, India 560038  
Phone: +91- 80-6845 0000 **Imported By:**

## 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



