

**TECHSPEC® 50mm Dia. Linear Polarizer (XP42-70)**



Stock **#19-942** **20+ In Stock**

- 1 + C\$38<sup>85</sup>

**ADD TO CART**

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-10       | C\$38.85 each                 |
| Qty 11-25      | C\$32.76 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**

**Diameter (mm):**

50.00 +0.0/-0.5

**Thickness (mm):**

0.72 ±0.1

**Construction:**

Polarizing Film on PMMA

**Optical Properties**

**Extinction Ratio:**

up to 9000:1 (nominal at 555nm)

**Substrate:**

[Polymer Film XP42-70](#)

**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 235:**

[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

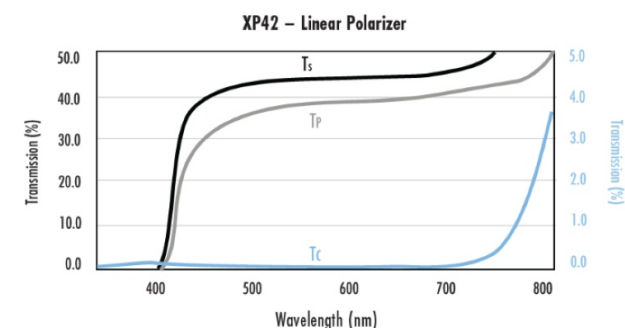
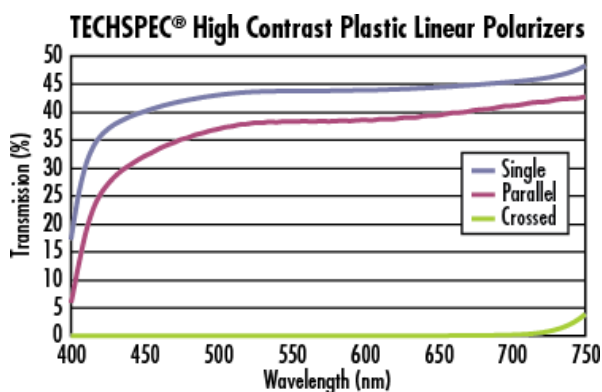
Ideal for a range of imaging applications, TECHSPEC® High Contrast Linear Polarizing Film (XP42) features an excellent extinction ratio and high transmission from 400 – 700nm. This polarizing film is offered in multiple thicknesses; thicker polarizing film has increased rigidity. Available in sheets,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

