

**TECHSPEC® 10mm Dia. Linear Polarizing Film (XP42-18)**



Stock #71-349 **20+ In Stock**

⊖ 1 ⊕ A\$23<sup>20</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-10	A\$23.20 each
Qty 11-25	A\$17.92 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Linear Polarizer **Type:**

Polarization axis is parallel to notch on polarizer edge **Note:**

**Physical & Mechanical Properties**

10.00 +0.0/-0.3 **Diameter (mm):**

**Thickness (mm):**

0.19 ±0.03

**Construction:**

Polarizing Film

### Optical Properties

**Coating:**

Uncoated, protective film on both sides

**Extinction Ratio:**

9000:1 (nominal at 555nm)

**Substrate:** □

**Polymer Film XP42-18**

**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, Single (%):**

42 ±2

**Transmission, Parallel (%):**

36.4

**Transmission, Crossed (%):**

<0.004 (nominal at 555nm)

### Environmental & Durability Factors

**Operating Temperature (°C):**

-40 to +80

**Heat Resistance (°C x Hours):**

80 x 500

**Humidity Resistance (°C x Hours):**

60 x 90% RH x 500

### 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

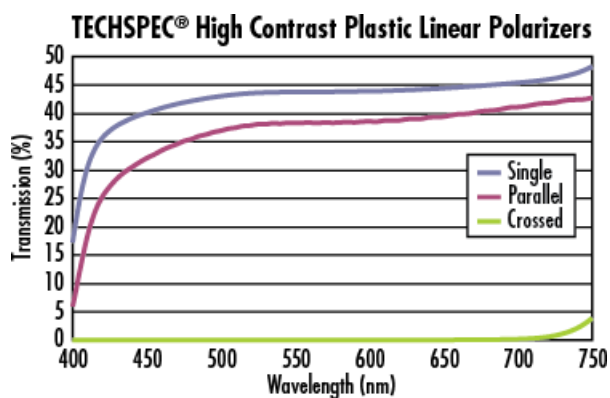
Ideal for a range of imaging applications, TECHSPEC® High Contrast Linear Polarizing Film (XP42) features an excellent extinction ratio and high transmission from 400 – 700nm. This polarizing film is offered in multiple thicknesses; thicker polarizing film has increased rigidity. Available in sheets,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

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

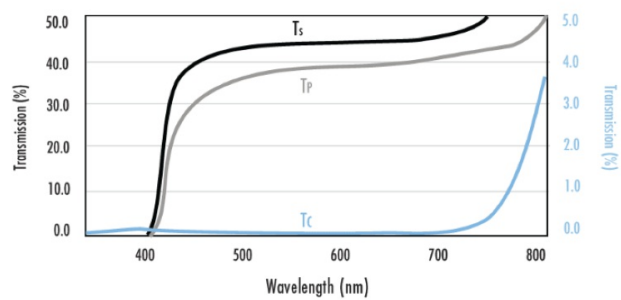
### Immediate Custom Quotes Available

If you have a need for anyround, 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



XP42 – Linear Polarizer



XP44 – Linear Polarizer

