

**TECHSPEC® 50mm Dia. Linear Polarizing Film (XP42-18)**



Stock #29-490 **3 In Stock**

A\$42.<sup>80</sup>

ADD TO CART

Volume Pricing	
Qty 1-10	A\$42.80 each
Qty 11-25	A\$37.60 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**

50.00 +0.0/-0.5 **Diameter (mm):**

0.19 ±0.03 **Thickness (mm):**

Polarizing Film **Construction:**

## 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

**Cold Resistance (°C x Hours):**  
-40 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

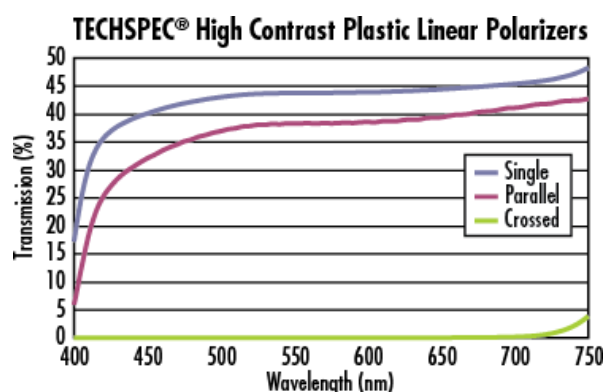
Ideal for a range of imaging applications, TECHSPEC® High Contrast Linear Polarizing Film (XP42) features an excellent extinction ratio and high transmission from 400 – 700nm. This polarizing film is offered in multiple thicknesses; thicker polarizing film has increased rigidity. Available in sheets,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

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

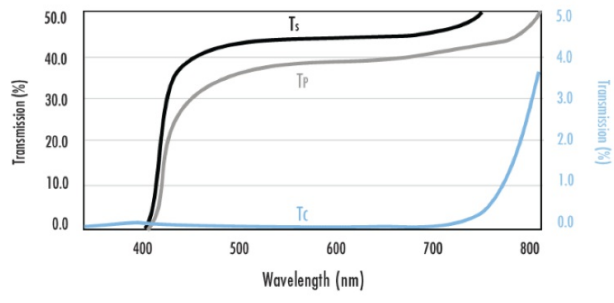
### Immediate Custom Quotes Available

If you have a need for 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



XP42 – Linear Polarizer



XP44 – Linear Polarizer

