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



Stock **#29-480** [CONTACT US](#)

- 1 + C\$37<sup>45</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-10	C\$37.45 each
Qty 11-25	C\$29.68 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Linear Polarizer **Type:**

Polarization axis is parallel to marking on protective film. **Note:**

**Physical & Mechanical Properties**

50.0 x 50.0 +0.0/-0.5 **Dimensions (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

**Cold Resistance (°C x Hours):**

60 x 90% RH x 500

**Humidity Resistance (°C x Hours):**

-40 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



