

[See all 64 Products in Family](#)

**TECHSPEC® 40mm Dia. Linear Polarizing Film (XP42-18)**



Stock #71-353 **20+ In Stock**

⊖ 1 ⊕ €24.<sup>50</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-10	€24,50 each
Qty 11-25	€20,10 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Linear Polarizer

Type:

Note:  
Polarization axis is parallel to notch on polarizer edge

**Physical & Mechanical Properties**

40.00 +0.0/-0.3

Diameter (mm):

0.19 ±0.03 **Thickness (mm):**

Polarizing Film **Construction:**

## Optical Properties

Uncoated, protective film on both sides **Coating:**

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

**Polymer Film XP42-18** **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 (%):**

42 ±2 **Transmission, Single (%):**

36.4 **Transmission, Parallel (%):**

<0.004 (nominal at 555nm) **Transmission, Crossed (%):**

## Environmental & Durability Factors

-40 to +80 **Operating Temperature (°C):**

80 x 500 **Heat Resistance (°C x Hours):**

60 x 90% RH x 500 **Humidity Resistance (°C x Hours):**

## Regulatory Compliance

**Compliant** **RoHS 2015:**

**View** **Certificate of Conformance:**

**Compliant** **Reach 247:**

## 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

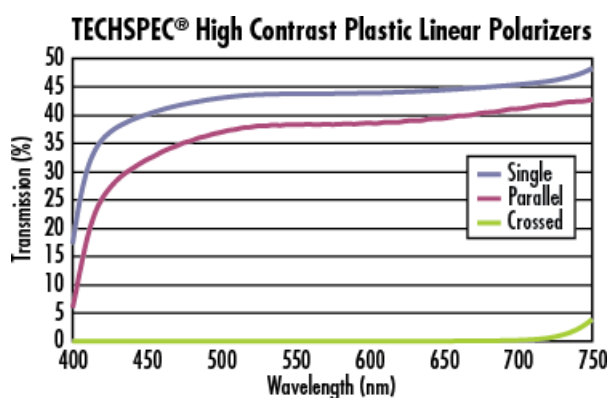
Ideal for a range of imaging applications, TECHSPEC® High Contrast Linear Polarizing Film (XP42) features an excellent extinction ratio and high transmission from 400 – 700nm. This polarizing film is offered in multiple thicknesses; thicker polarizing film has increased rigidity. Available in sheets,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

