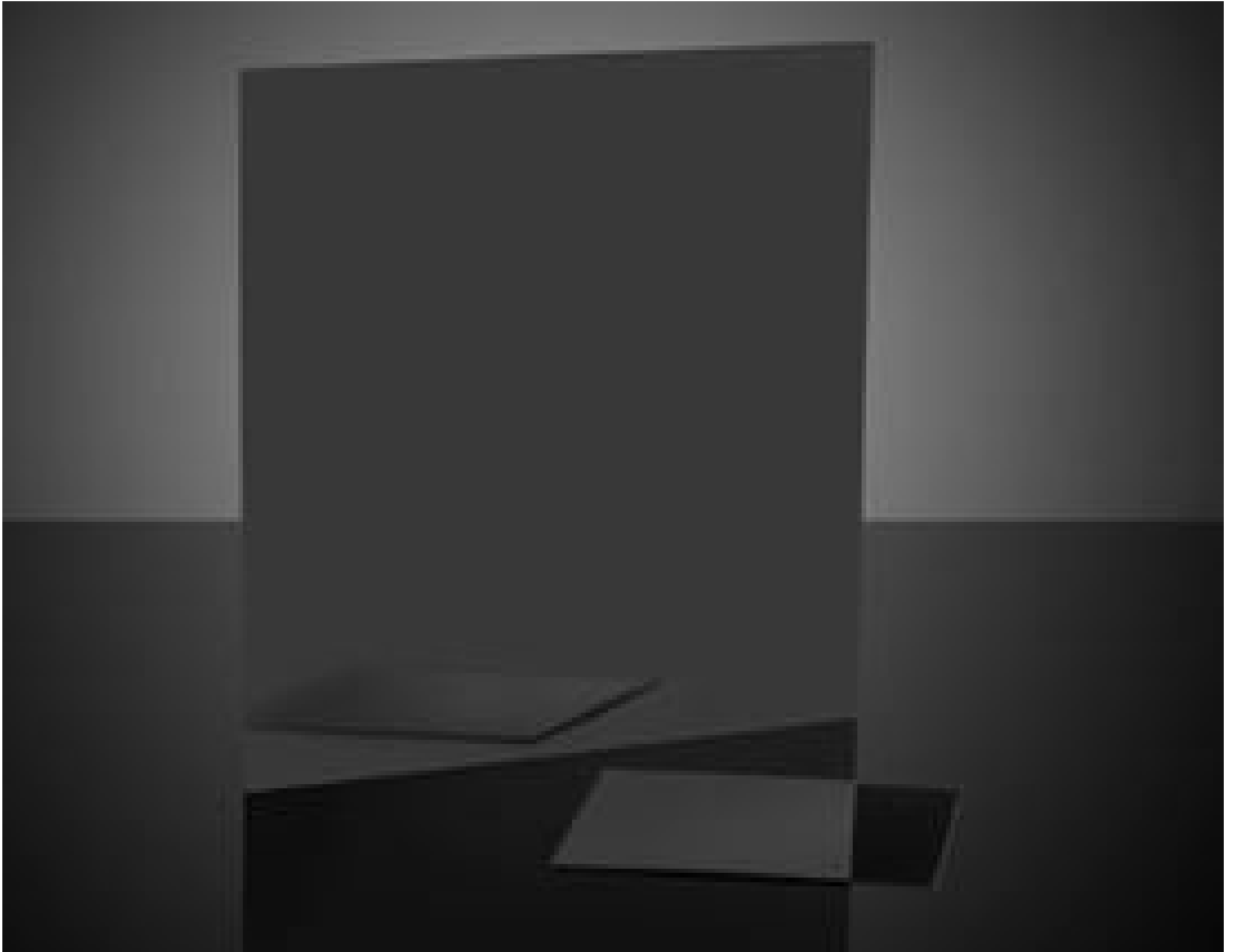


[See all 64 Products in Family](#)

## TECHSPEC® 20mm Dia. Linear Polarizing Film (XP42-18)



Stock #71-351 **20+ In Stock**

⊖ 1 ⊕ £16<sup>00</sup>

**ADD TO CART**

### Volume Pricing

Qty 1-10	£16.00 each
Qty 11-25	£12.48 each
Need More?	<a href="#">Request Quote</a>

**i** 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

20.00 +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

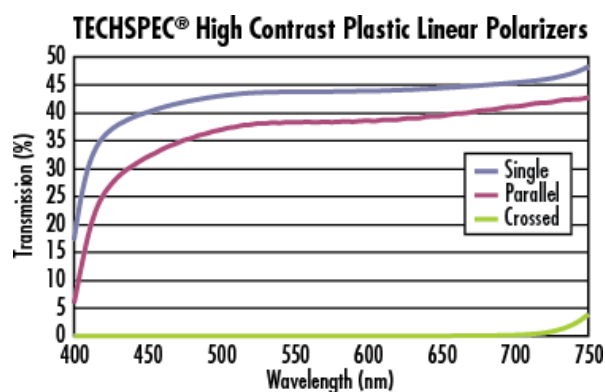
Ideal for a range of imaging applications, TECHSPEC® High Contrast Linear Polarizing Film (XP42) features an excellent extinction ratio and high transmission from 400 – 700nm. This polarizing film is offered in multiple thicknesses; thicker polarizing film has increased rigidity. Available in sheets,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

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

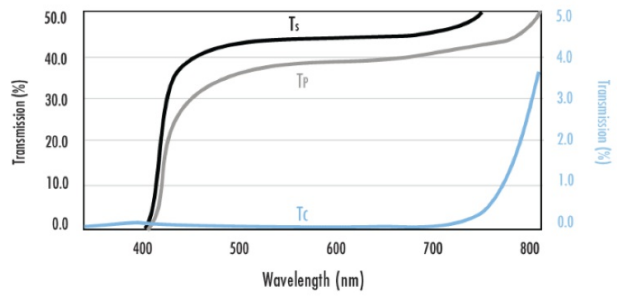
### Immediate Custom Quotes Available

If you have a need for 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

