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



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

- 1 + €24<sup>.50</sup>

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### Volume Pricing

Qty 1-10	€24,50 each
Qty 11-25	€20,10 each
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**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

40.00 +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



