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TECHSPEC® 100 x 100mm Linear Polarizing Film (XP42-18)



Stock #29-481 **20+ In Stock**

⊖ 1 ⊕ £38²⁰

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Volume Pricing

Qty 1-10	£38.20 each
Qty 11-25	£31.12 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Linear Polarizer

Type:

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

Physical & Mechanical Properties

100.0 x 100.0 +1.0/-1.0

Dimensions (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 **Cold Resistance (°C x Hours):**

-40 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



