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TECHSPEC® 600 x 450mm Linear Plastic Polarizer (XP42-300)



Stock #24-283 **5 In Stock**

- 1 + £281^{.60}

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Volume Pricing

Qty 1-5	£281.60 each
Qty 6-49	£225.52 each
Qty 50-99	£211.28 each
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! Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Linear Polarizer **Type:**

Physical & Mechanical Properties

600.0 x 450.0 ±5.0 **Dimensions (mm):**

3.12 ±0.35 **Thickness (mm):**

Polarizing Film on PMMA **Construction:**

Optical Properties

9000:1 **Extinction Ratio:**

[XP42-300 on PMMA](#) **Substrate:** □

Single: 42 Parallel: 36 Crossed: <0.004 **Transmission (%):**

400 - 700 **Wavelength Range (nm):**

>99.98 **Polarization Efficiency (%):**

Environmental & Durability Factors

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

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 235:**

Product Details

- Excellent Extinction Ratio of 9000:1
- Increased Durability through Lamination on PMMA
- High Transmission of Unpolarized Light from 400 – 700nm

TECHSPEC® High Contrast Plastic Linear Polarizers (XP42-200 & XP42-300) are ideal for a variety of imaging applications. Offered in multiple sizes, these linear polarizers feature an excellent extinction ratio and high transmission of unpolarized light from 400 – 700nm. The plastic substrate results in a lightweight polarizer, ideal for weight constrained applications. TECHSPEC® High Contrast Plastic Linear Polarizers (XP42-200 & XP42-300) offer increased durability compared to [polarizing film](#).

When unpolarized light enters a linear polarizer, the light that is polarized perpendicular to the polarization axis is absorbed, and light parallel to the polarization axis is transmitted. TECHSPEC® High Contrast Plastic Linear Polarizers (XP42-200) utilize a stretched PVA film to create the polarization axis. To increase durability, the film is then laminated between two plastic plates.

Note: These linear polarizers are not recommended for laser applications.

Immediate Custom Quotes Available

If you have a need for any round, square, or rectangular size of a TECHSPEC High Contrast Plastic Linear Polarizers (XP42-200) 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

