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**TECHSPEC® 100mm x 100mm Linear Polarizing Film (XP42HE-40)**



Stock #71-900 **14 In Stock**

⊖ 1 ⊕ A\$151<sup>20</sup>

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Volume Pricing	
Qty 1-10	A\$151.20 each
Qty 11-25	A\$120.96 each
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**General**

Linear Polarizer **Type:**

**Note:**  
Polarization axis can be identified as follows:  
Circular Parts - Parallel to direction of notch on polarizer  
Square Parts - Parallel to mark on protective film  
Rectangular Parts - Parallel to first listed dimension

**Physical & Mechanical Properties**

**Dimensions (mm):**

100 x 100 +/- 1.0

0.40 +/- 0.05 **Thickness (mm):**

Polarizing Film **Construction:**

## Optical Properties

30,000:1 (Nominal at 555nm) **Extinction Ratio:**

Polymer Film XP42HE-40 **Substrate:** □

Single: 42.6 (nominal @ 555nm), 41.1 (average 420-700nm)  
Parallel: 36.4 (nominal @ 555nm), 34.0 (average 420-700nm)  
Crossed: 0.001 (nominal @ 555nm), 0.002 (average 420-700nm) **Transmission (%):**

420 - 700 **Wavelength Range (nm):**

>99.99% (nominal at 555nm) **Polarization Efficiency (%):**

## Environmental & Durability Factors

-10 to +60 **Operating Temperature (°C):**

## Regulatory Compliance

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

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

[Compliant](#) **REACH 241:**

## Product Details

- Superior 30,000:1 Extinction Ratio
- Excellent Transmission from 420-700nm
- Available in a Range of Sizes
- Custom Sizes Available

TECHSPEC® Ultra-High Contrast Polarizing Film (XP42HE) are designed to produce a 30,000:1 contrast ratio from 420 – 700nm with an excellent transmission of 42.6%. These polarizing films are available in rectangular geometries in a range of sizes. TECHSPEC Ultra-High Contrast Polarizing Film (XP42HE) are easily cut to required geometries using common cutting tools for system integration. Additionally, the 500 x 1000mm version [#24-286](#) and [#71-907](#) are available with an adhesive backing to facilitate incorporation into various applications. These polarizing films are ideal for imaging, metrology, and microscopy applications where contrast sensitivity is paramount.