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**TECHSPEC® 75mm x 75mm Linear Polarizing Film (XP42HE-40)**



Stock **#71-899** **3 In Stock**

⊖ 1 ⊕ **A\$116<sup>.00</sup>**

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-10       | <b>A\$116.00</b> each         |
| Qty 11-25      | <b>A\$92.80</b> 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):**

75 x 75 +/- 0.5

**Thickness (mm):**

0.40 +/- 0.05

**Construction:**

Polarizing Film

## Optical Properties

**Extinction Ratio:**

30,000:1 (Nominal at 555nm)

**Substrate:** □

Polymer Film XP42HE-40

**Transmission (%):**

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)

**Wavelength Range (nm):**

420 - 700

**Polarization Efficiency (%):**

>99.99% (nominal at 555nm)

## Environmental & Durability Factors

**Operating Temperature (°C):**

-10 to +60

## Regulatory Compliance

**RoHS 2015:**

[Compliant](#)

**Certificate of Conformance:**

[View](#)

**REACH 241:**

[Compliant](#)

## 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.