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**TECHSPEC® 25mm x 25mm Linear Polarizing Film (XP42HE-40)**



Stock #71-897 **20+ In Stock**

- 1 + S\$46<sup>.90</sup>

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Volume Pricing	
Qty 1-10	<b>S\$46.90</b> each
Qty 11-25	<b>S\$37.52</b> each
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Product Downloads

**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):**

25 x 25 +/- 0.3

0.40 +/- 0.05

**Thickness (mm):**

Polarizing Film

**Construction:**

## Optical Properties

30,000:1 (Nominal at 555nm)

**Extinction Ratio:**

Polymer Film XP42HE-40

**Substrate:** □

**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)

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.