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



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

⊖ 1 ⊕ €94.<sup>50</sup>

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Volume Pricing	
Qty 1-10	€94,50 each
Qty 11-25	€75,60 each
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**i** Prices shown are exclusive of VAT/local taxes

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**

100 x 100 +/-1.0	<b>Dimensions (mm):</b>
0.40 +/- 0.05	<b>Thickness (mm):</b>
Polarizing Film	<b>Construction:</b>
<b>Optical Properties</b>	
30,000:1 (Nominal at 555nm)	<b>Extinction Ratio:</b>
Polymer Film XP42HE-40	<b>Substrate:</b> □
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)	<b>Transmission (%):</b>
420 - 700	<b>Wavelength Range (nm):</b>
>99.99% (nominal at 555nm)	<b>Polarization Efficiency (%):</b>
<b>Environmental &amp; Durability Factors</b>	
-10 to +60	<b>Operating Temperature (°C):</b>
<b>Regulatory Compliance</b>	
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>REACH 241:</b>

## 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.