

[See all 17 Products in Family](#)

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



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

- 1 + €94.⁵⁰

ADD TO CART

Volume Pricing	
Qty 1-10	€94,50 each
Qty 11-25	€75,60 each
Need More?	Request Quote

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	Dimensions (mm):
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.