

TECHSPEC<sup>®</sup> 30mm Dia. Linear Polarizer Film (XP42HE-40)



Stock #71-894 20+ In Stock

-

1

+

C\$54<sup>.60</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-10       | C\$54.60 each                 |
| Qty 11-25      | C\$43.68 each                 |
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Product Downloads

General

Type:  
Linear Polarizer

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

Diameter (mm):

|                                                                                                                                                                                       |                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 30.00 +0/-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: <div></div>       |
| Single: 42.6 (nominal @ 555nm), 41.1 (average 420-700nm)<br>Parallel: 36.4 (nominal @ 555nm), 34.0 (average 420-700nm)<br>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.