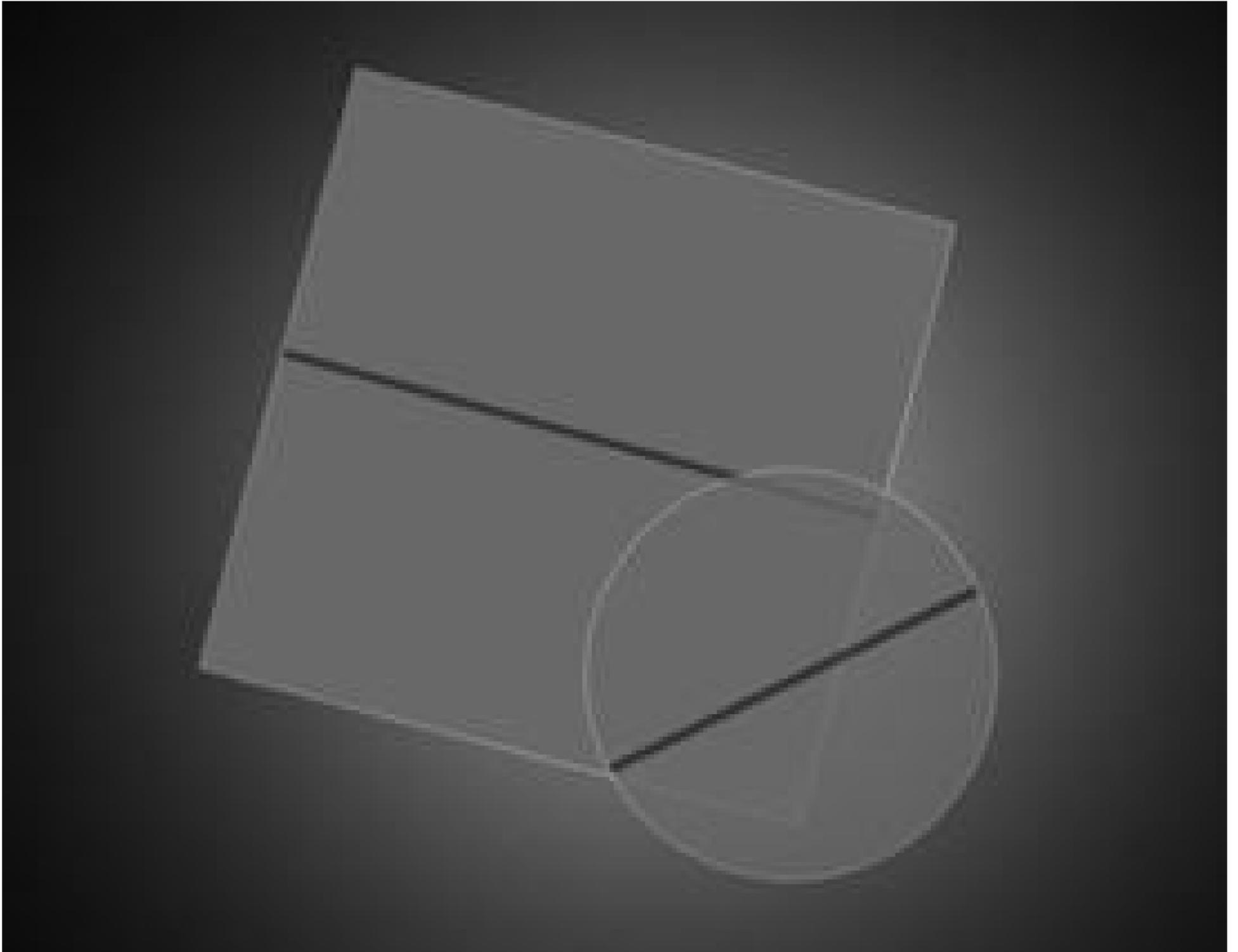


[See all 13 Products in Family](#)

## 50mm x 50mm XP-NIR Commercial Grade NIR Polarizing Film



Stock #73-361 NEW 5 In Stock

£40<sup>00</sup>

ADD TO CART

Volume Pricing	
Qty 1-10	£40.00 each
Qty 11-25	£32.00 each
Qty 26-49	£28.00 each
Need More?	<a href="#">Request Quote</a>

! Prices shown are exclusive of VAT/local taxes

### Product Downloads

### General

Type:  
Linear Polarizer

Note:  
Delivered with protective film on both sides  
Polarization axis indicated by notch cut into edge  
(circular parts) or stripe on protective film  
Pressure Sensitive Adhesive (PSA) on one side

### Physical & Mechanical Properties

50.00	<b>Length (mm):</b>
50 x 50 +0/-0.5	<b>Dimensions (mm):</b>
0.21 +/- 0.025	<b>Thickness (mm):</b>
Polarizing Film	<b>Construction:</b>
50.00	<b>Width (mm):</b>

## Optical Properties

Uncoated	<b>Coating:</b>
>160:1 from 800-1000nm (Average, Typical)	<b>Extinction Ratio:</b>
XP-NIR Polarizing Film	<b>Substrate:</b> □
800 - 1000	<b>Wavelength Range (nm):</b>
>99.0 @ 860nm	<b>Polarization Efficiency (%):</b>
35 +/- 3.0 @ 860nm	<b>Transmission, Single (%):</b>

## Environmental & Durability Factors

<p><b>Heat Resistance (°C x Hours):</b>  105C x 500h (dry) Change in single transmittance @ 870nm &lt;+/-5%  60C x 1000h (90% humidity)  Change in single transmittance @ 870nm &lt;+/-5% from initial value, change in polarization efficiency @ 870nm &lt;-3% from initial value</p> <p><b>Cold Resistance (°C x Hours):</b>  -40C x 1000h  Change in single transmittance @ 870nm &lt;+/-5% from initial value  Change in polarization efficiency @ 870nm &lt;-3% from initial value</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

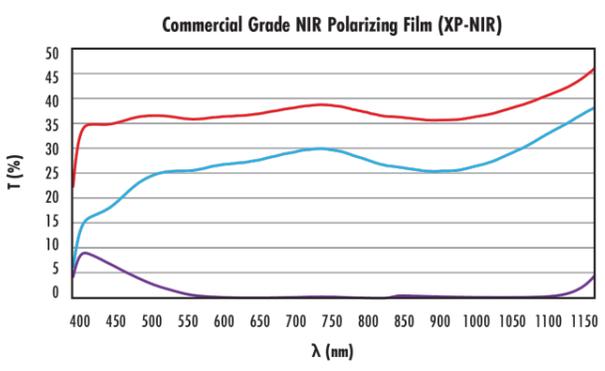
## Regulatory Compliance

<a href="#">View</a>	<b>Certificate of Conformance:</b>
----------------------	------------------------------------

## Product Details

- Optimized Performance Between 800-1000nm
  - Ideal for Sensing and Inspection Applications
  - Available in Sizes up to 600 x 900mm
  - [Near-Infrared \(NIR\) Linear Polarizing Film](#) and [High Contrast Near-Infrared \(NIR\) Polarizing Film](#) also Available for Broadband IR Applications
- Commercial Grade NIR Polarizing Film (XP-NIR) offers a cost-effective solution for polarization applications in the 800-1000nm range. This film offers contrast ratios of >160:1 (Average) and >99% polarization efficiency in the specified range, and its high environmental resistance makes it a great choice for demanding environments. Commercial Grade NIR Polarizing Film (XP-NIR) is delivered with a pressure sensitive adhesive (PSA) on one side and is available in circular or rectangular sizes, with up to a 50mm diameter or a 600 x 900mm format. This film is ideal for commercial sensing, inspection, and LIDAR applications.
- Note:** Custom sizes available up to 1000mm

## Technical Information



## Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness

- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

---

;