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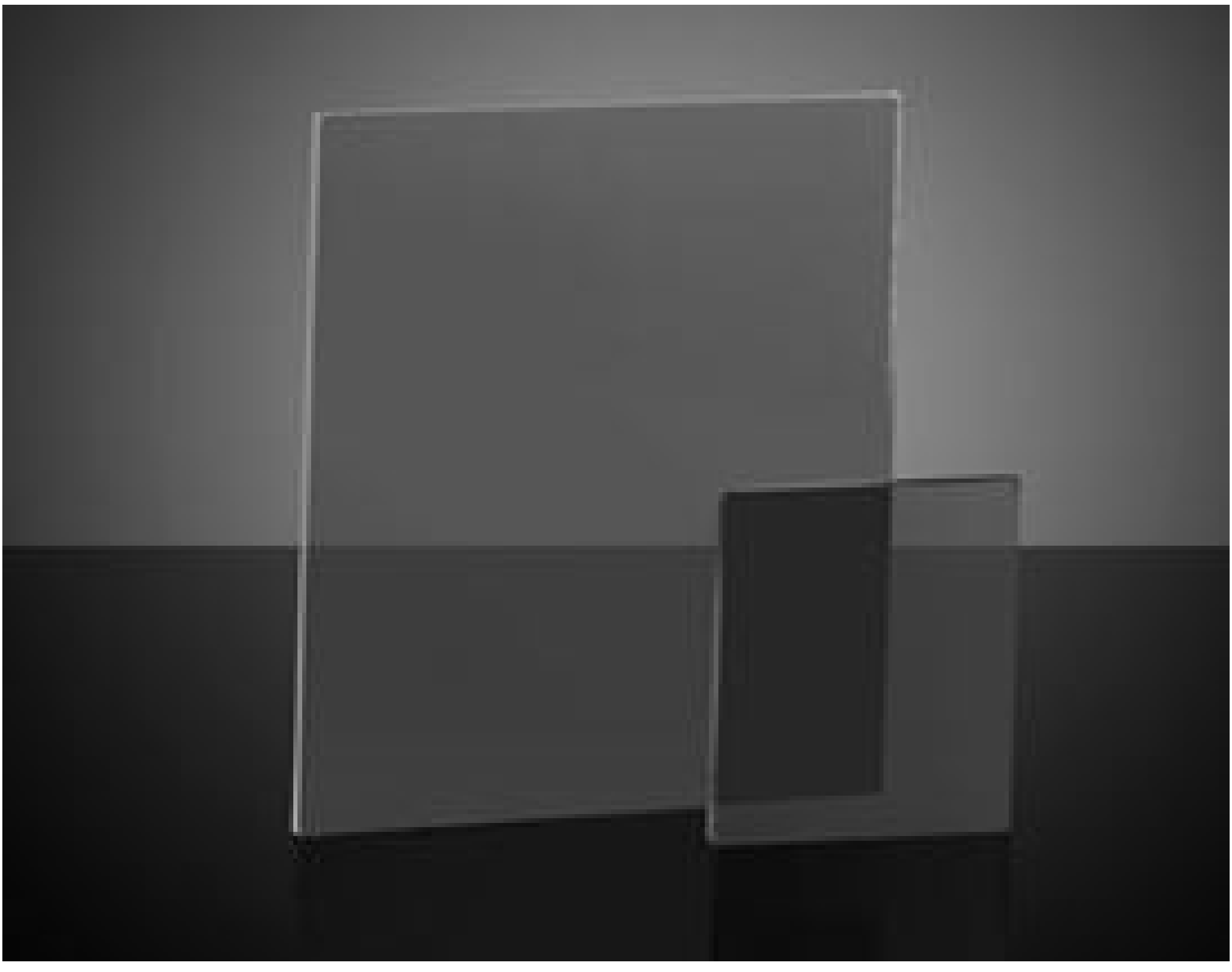
Broadband NIR Polarizing Film 40mm Dia



Stock **#71-124** **5 In Stock**

- 1 + **C$421.40**

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Qty 1-9	**C$421.40** each
Qty 10-25	**C$382.48** each
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General

Type:
Linear Polarizer

Note:
Protective film both sides, polarization axis indicated but cutout on polarizer edge

Physical & Mechanical Properties

Diameter (mm):
40.00 +/- 0.25

Thickness (mm):

0.58 ±0.1

Dimensional Tolerance (mm):
+/- 0.25

Construction:
Polarizing Film

Optical Properties

Coating:
Uncoated

Extinction Ratio:
5,000:1 (400-760nm), 1350:1 (760-2200nm)
Average, typical

Substrate:
Polymer Film on TAC

Transmission (%):
Single: 26(400-760nm) 40(760-2200nm) Crossed: 0.0005 (400-760nm) 0.029 (760-2200nm)

Wavelength Range (nm):
400 - 2200

Transmission, Single (%):
26(400-760nm) 40(760-2200nm)

Transmission, Crossed (%):
0.0005 (400-760nm) 0.029 (760-2200nm)

Environmental & Durability Factors

Operating Temperature (°C):
Heat Resistance 70°C Dry Cold Resistance -51°C

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 240:
Compliant

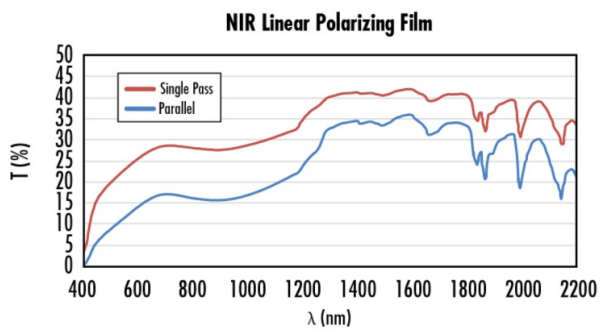
Product Details

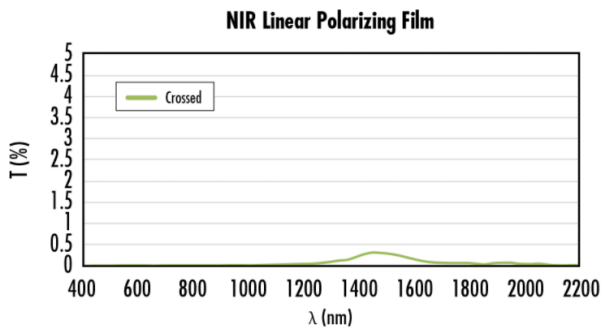
- Ideal for NIR Polarization Applications
- >400:1 Extinction Ratio from 800 - 2200nm
- High Efficiency Across Wavelength Range
- Durable Polymer Substrate

Near-Infrared (NIR) Linear Polarizing Film consists of a durable polymer substrate and is ideal for imaging applications that range from the visible to NIR (400 - 2200nm). This polarizing polymer film features an excellent average transmission of 39% with greater than 99.6% polarization efficiency for incident randomly polarized light between 760 and 2200nm. Multiple rectangular sizes are available to accommodate light sources that range from low power NIR lasers with small beam diameters, to larger LED light beams. Near-Infrared (NIR) Linear Polarizing Film is used in industrial imaging and laboratory applications, i.e. to attenuate the intensity of low output NIR lasers and LEDs or to reduce glare in images recorded using NIR photodetectors. The polarization axis is labelled on the protective masking of the polarizing polymer film for rectangular parts and as a notch cutout on the polarizing polymer film for circular parts.

Note: Remove protective masking before first use.

Technical Information





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