

High Contrast NIR Polarizing Film, 50mm Dia.



High Contrast NIR Polarizing Film

Stock #70-999 **13 In Stock**

⊖ 1 ⊕ **S\$495⁰⁰**

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Volume Pricing

Qty 1-9	S\$495.60 each
Qty 10+	S\$397.46 each
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Product Downloads

General

Linear Polarizer **Type:**

Note:
Outer 0.5mm edge is not functional due to loss of transparency during laser cutting. Delivered with protective film and paper overlayer on both sides marked to show polarization axis

Physical & Mechanical Properties

Diameter (mm):

50.00 +/- 0.2

0.50 (Nominal)

Thickness (mm):

Polarizing Film

Construction:

Optical Properties

Uncoated

Coating:

>1000:1 (700nm-1600nm)
>10000:1 AVG (400nm-800nm)

Extinction Ratio:

Cellulose Triacetate

Substrate:

532nm: 65
830nm: 70
1550nm: 80

P-Polarization Transmission (%):

532nm: 0.002
830nm: 0.04
1550nm: 0.1

S-Polarization Transmission (%):

80-50

Surface Quality:

420 - 1600

Wavelength Range (nm):

Environmental & Durability Factors

85 x 500 (dry)

Heat Resistance (°C x Hours):

-40 x 500

Cold Resistance (°C x Hours):

DIN ISO 9022-2-10-07
DIN ISO 9022-2-11-05
DIN ISO 9022-2-12-07
DIN ISO 9022-2-14-05

Environmental Durability:

15-25

Storage Temperature (°C):

Regulatory Compliance

[View](#)

Certificate of Conformance:

Product Details

- >1,000:1 Extinction Ratio from 700nm-1600nm
- Ideal for NIR Imaging Applications
- Affordable Alternative to Conventional Glass Polarizers
- [Ultra-Broadband NIR Polarizing Films](#) also Available

High Contrast Near-Infrared (NIR) Polarizing Film provides excellent contrast in the VIS and NIR spectrum and is an affordable alternative to conventional glass polarizers. These polarizing films are designed for assisting stray light management with NIR photodetectors and glare reduction in industrial imaging applications. With 1,000:1 contrast in NIR and 10,000:1 contrast in VIS, these polarizing films have excellent broadband performance. High Contrast Near-Infrared (NIR) Polarizing Film features high transmission between 415 - 1600nm and can be easily cut to size. These polarizing films are ideal for the use in sensing, NIR imaging, and SWIR applications.

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](#).