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High Contrast NIR Polarizing Film, 50mm Dia.



High Contrast NIR Polarizing Film

Stock #70-999 **10 In Stock**

⊖ 1 ⊕ £283²⁰

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Volume Pricing

Qty 1-9	£283.20 each
Qty 10+	£227.12 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

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

50.00 +/- 0.2	Diameter (mm):
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: <input type="checkbox"/>
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	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 251:

Need different specs or modifications?

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](#).

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.