

Ultra-Thin Polarizer, 1550nm, 12.5mm Dia, Double-Side AR Coated



Ultra-Thin Polarizer, Circle

Stock **#26-654** 1 In Stock

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1

+

C\$1,155⁰⁰

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Volume Pricing	
Qty 1+	C\$1,155.00 each
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Product Downloads

Physical & Mechanical Properties	
12.50 +0/-0.2	Diameter (mm):
0.09 ± 0.025	Thickness (mm):
Optical Properties	
Double-Side AR	Coating:
>10,000:1	Extinction Ratio:

Substrate: Sodium Silicate Glass Doped with Silver Nanoparticles	
Surface Quality: 40-20	
Transmission (%): >96	
Coating Specification: Not available	
Wavelength Range (nm): 1500 - 1600	
Damage Threshold, By Design: 10 W/cm²	
Acceptance Angle (°): ± 20°	
Transmitted Wavefront Error, RMS: <3 λ	

Environmental & Durability Factors

Operating Temperature (°C): -50 to +400	
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Regulatory Compliance

RoHS 2015: Compliant	
Certificate of Conformance: View	
REACH 241: Compliant	

Product Details

- NEW LOWER PRICE!
 - Lightweight 90µm Thick Substrate
 - >10,000:1 Extinction Ratio
 - Excellent Resistance to Temperature, Chemicals, and Harsh Environments
 - Range of Standard Sizes, Coatings, and Custom Options Available
- Ultra-Thin Nanoparticle Polarizers are a lightweight 90µm thick alternative to traditional polarizers while providing a high transmission and an extinction ratio of >10,000:1. Constructed from sodium silicate glass substrate doped with prolate silver nanoparticles, these polarizers provide high temperature stability up to +400°C, chemical resistance, and resistance to UV radiation and bleaching. These polarizers are available uncoated, Single-Side AR coated, or Double-Side AR coated and cover wavelength ranges from 366-1600nm. Ultra-Thin Nanoparticle Polarizers design are ideal for use in telecom, medical, and aerospace applications as well as in optical isolators, polarization interferometry, and improving signal-to-noise ratio.

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](#).