

# Ultra-Thin Polarizer, 1550nm, 12.5mm Dia, Uncoated



Ultra-Thin Polarizer, Circle

Stock **#26-651** 1 In Stock

-

1

+

C\$1,113<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | C\$1,113.00 each              |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

Physical & Mechanical Properties

|               |                 |
|---------------|-----------------|
| 12.50 +0/-0.2 | Diameter (mm):  |
| 0.09 ± 0.025  | Thickness (mm): |

Optical Properties

|           |                   |
|-----------|-------------------|
| Uncoated  | Coating:          |
| >10,000:1 | Extinction Ratio: |

|                                                                             |  |
|-----------------------------------------------------------------------------|--|
| Substrate: <div>Sodium Silicate Glass Doped with Silver Nanoparticles</div> |  |
| Surface Quality: <div>40-20</div>                                           |  |
| Transmission (%): <div>&gt;88</div>                                         |  |
| Wavelength Range (nm): <div>1500 - 1600</div>                               |  |
| Damage Threshold, By Design: <div>10 W/cm<sup>2</sup></div>                 |  |
| Acceptance Angle (°): <div>± 20°</div>                                      |  |
| Transmitted Wavefront Error, RMS: <div>&lt;3 λ</div>                        |  |
| Environmental & Durability Factors                                          |  |
| Operating Temperature (°C): <div>-50 to +400</div>                          |  |
| Regulatory Compliance                                                       |  |
| RoHS 2015: <div>Compliant</div>                                             |  |
| Certificate of Conformance: <div>View</div>                                 |  |
| REACH 241: <div>Compliant</div>                                             |  |

## 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](#).

## 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.