

# Ultra-Thin Polarizer, 1550nm, 10 x 10mm, Single-Side AR Coated



Ultra-Thin Polarizer, Square

Stock **#26-647** 1 In Stock

-

1

+

€465<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | €465,00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

**i** Prices shown are exclusive of VAT/local taxes

Product Downloads

Physical & Mechanical Properties

|                 |                  |
|-----------------|------------------|
| 10 x 10 +0/-0.1 | Dimensions (mm): |
| 0.09 ± 0.025    | Thickness (mm):  |

Optical Properties

|                |                   |
|----------------|-------------------|
| Single-Side AR | Coating:          |
|                | Extinction Ratio: |

|                                                       |                                                       |
|-------------------------------------------------------|-------------------------------------------------------|
| >10,000:1                                             |                                                       |
| Sodium Silicate Glass Doped with Silver Nanoparticles | Substrate: <input type="checkbox"/>                   |
| 40-20                                                 | Surface Quality:                                      |
| >92                                                   | Transmission (%):                                     |
| Not available                                         | Coating Specification:                                |
| 1500 - 1600                                           | Wavelength Range (nm):                                |
| 10 W/cm <sup>2</sup>                                  | Damage Threshold, By Design: <input type="checkbox"/> |
| ± 20°                                                 | Acceptance Angle (°):                                 |
| <3 λ                                                  | Transmitted Wavefront Error, RMS:                     |

Environmental & Durability Factors

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

Regulatory Compliance

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

## 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](#).