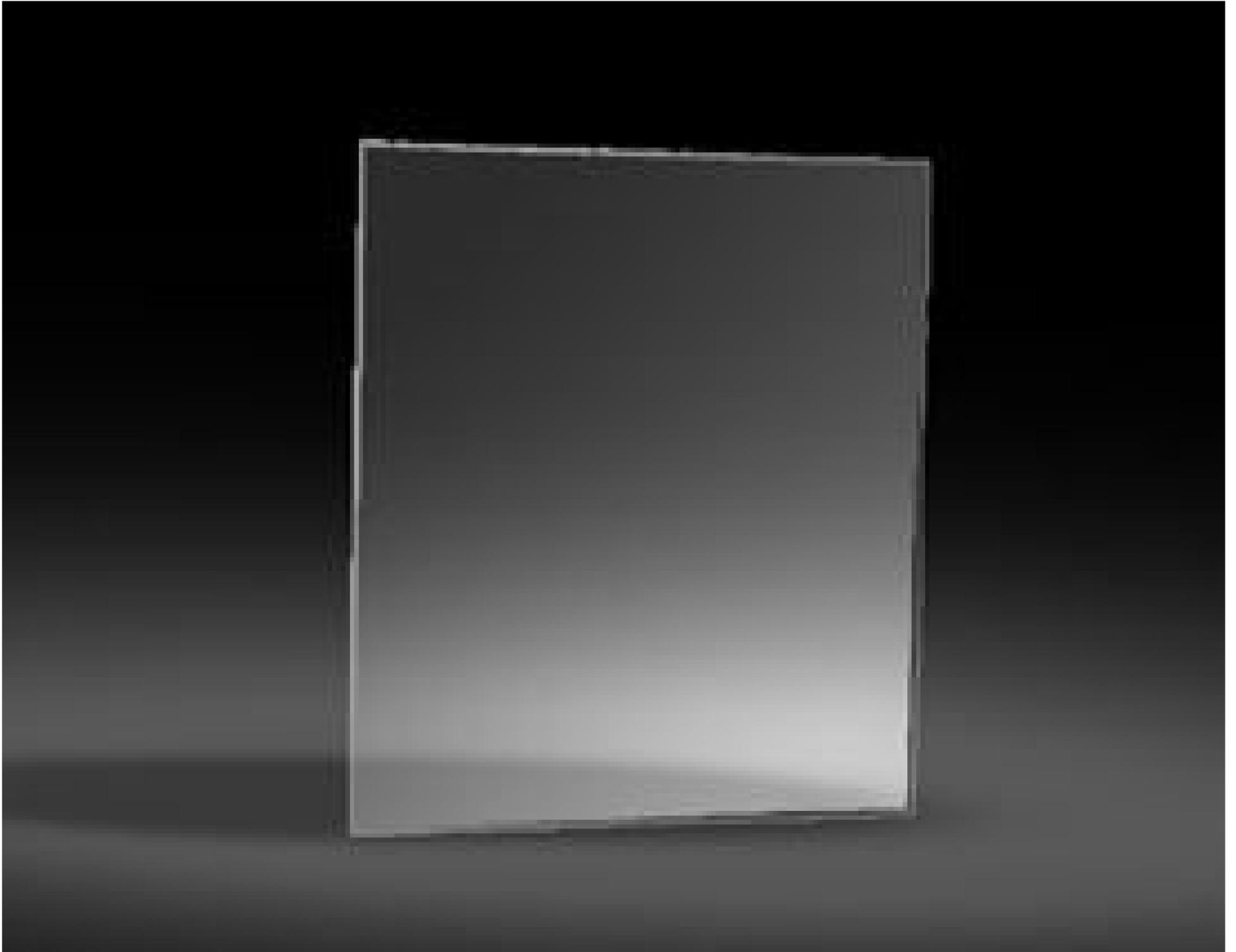


[See all 22 Products in Family](#)

## Ultra-Thin Polarizer, 1550nm, 10 x 10mm, Uncoated



Ultra-Thin Polarizer, Square

Stock **#26-650** **1 In Stock**

⊖ 1 ⊕ ₹32,308

**ADD TO CART**

Volume Pricing	
Qty 1+	₹32,308 each
Need More?	<a href="#">Request Quote</a>

### Product Downloads

### Physical & Mechanical Properties

10 x 10 +0/-0.1      **Dimensions (mm):**

0.09 ± 0.025      **Thickness (mm):**

### Optical Properties

Uncoated      **Coating:**

>10,000:1      **Extinction Ratio:**

**Substrate:** □  
Sodium Silicate Glass Doped with Silver Nanoparticles

**Surface Quality:**  
40-20

**Transmission (%):**  
>88

**Wavelength Range (nm):**  
1500 - 1600

**Damage Threshold, By Design:** □  
10 W/cm<sup>2</sup>

**Acceptance Angle (°):**  
± 20°

**Transmitted Wavefront Error, RMS:**  
<3 λ

## Environmental & Durability Factors

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

## Regulatory Compliance

**RoHS 2015:**  
Compliant

**Certificate of Conformance:**  
View

**REACH 241:**  
Compliant

**Country of Origin:**  
Germany

**Imported By:**  
Edmund Optics India Private Limited

## 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.