

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



Ultra-Thin Polarizer, Square

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

-

1

+

€453⁰⁰

ADD TO CART

Volume Pricing	
Qty 1+	€453,00 each
Need More?	Request Quote

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

Uncoated	Coating:
	Extinction Ratio:

>10,000:1	
	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 ²	
	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	

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](#).