See all 6 Products in Family

12.5 x 12.5mm, Protective Overcoat Wire Grid Polarizer

Stock **#12-645** **10 In Stock**

- 1 +

€238.00

ADD TO CART

Volume Pricing	
Qty 1-10	**€238,00** each
Qty 11+	**€203,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Linear Polarizer

Note:

When the Reference Mark is orientated to the 3 or 9 o'clock position, the transmission axis runs left to right.

Physical & Mechanical Properties

Clear Aperture CA (mm):

10.5 x 10.5

Length (mm):

12.50

Dimensions (mm):

12.5 x 12.5

Thickness (mm):

0.70 ±0.07

Dimensional Tolerance (mm):

±0.2

Construction:

Wire Grid

Alignment Tolerance (°):

±1.0

Width (mm):

12.50

Optical Properties

Angle of Incidence (°):

0 ±20

Coating:

BBAR (400-700nm)

Extinction Ratio:

348:1 @ 450nm
885:1 @ 550nm
1229:1 @ 650nm

Substrate:

Corning Eagle XG

Surface Quality:

80-50

Transmission (%):

87

Transmission Tolerance (%):

±2.5 @ 420 - 700nm

Coating Specification:

R_{avg} <1% @ 400 - 700nm (Back of Substrate)

Wavelength Range (nm):

420 - 700

Material Properties

Thermal Expansion:

31.7 x 10-7/°C

Environmental & Durability Factors

Operating Temperature (°C):

-40 to +200

Regulatory Compliance

RoHS 2015:

Compliant

Reach 224:

Compliant

Certificate of Conformance:

View

Product Details

- Reflect S-Polarized Light, Transmit P-Polarized Light
- Protective Overcoat for Easy Handling and Cleaning
- Lighter, Thinner Design than Traditional **Wire Grid Polarizers**
- Overcoat Temperature Stability up to 200°C

Protective Overcoat Wire Grid Polarizers are used to reflect s-polarized light while transmitting p-polarized light in the visible spectrum. These polarizers consist of a thin aluminum wire grid attached to a glass substrate that is treated with a hard, protective coating. The overcoat protects the wire grid structure from scratches or other damage due to mechanical stress while enabling lighter, thinner designs compared to traditional **Wire Grid Polarizers** that use cover glass. The protective coating on these polarizers allows for them to be easily handled and cleaned, unlike **bare wire grid polarizers** where handling and cleaning is not recommended. Protective Overcoat Wire Grid Polarizers can be used in environments with high temperatures up to 200°C for over 1000 hours with minimal impact on performance.

Note: Reference marks indicate the axis of polarization.

;