

12.5 x 12.5mm, Protective Overcoat Wire Grid Polarizer



Stock **#12-645** 20+ In Stock

-

1

+

S\$333^{.20}

ADD TO CART

Volume Pricing	
Qty 1-10	S\$333.20 each
Qty 11+	S\$284.20 each
Need More?	Request Quote

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

12.50	Length (mm):
12.5 x 12.5	Dimensions (mm):
0.70 ±0.07	Thickness (mm):
±0.2	Dimensional Tolerance (mm):
Wire Grid	Construction:
±1.0	Alignment Tolerance (°):
12.50	Width (mm):

Optical Properties

0 ±20	Angle of Incidence (°):
BBAR (400-700nm)	Coating:
348:1 @ 450nm 885:1 @ 550nm 1229:1 @ 650nm	Extinction Ratio:
Corning Eagle XG	Substrate: □
80-50	Surface Quality:
87	Transmission (%):
±2.5 @ 420 - 700nm	Transmission Tolerance (%):
R _{avg} <1% @ 400 - 700nm (Back of Substrate)	Coating Specification:
420 - 700	Wavelength Range (nm):

Material Properties

31.7 x 10-7/°C	Thermal Expansion:
----------------	--------------------

Environmental & Durability Factors

-40 to +200	Operating Temperature (°C):
-------------	-----------------------------

Regulatory Compliance

Compliant	RoHS 2015:
Compliant	Reach 224:
View	Certificate of Conformance:

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.