

5mm Diameter High Contrast VIS-NIR Polarizer



Stock #90-383 NEW 1 In Stock

MRP ₹27,745

Price inclusive of all taxes

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Qty 1-10	₹27,745 each
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General

Linear Polarizer Type:

Physical & Mechanical Properties

4.50 Clear Aperture CA (mm):

5.00 +0.0/-0.2 Diameter (mm):

Thickness (mm):

2.00 ±0.20

Construction:

Nanoparticle

Clear Aperture (%):

90

Optical Properties

Coating:

Double-Side AR Coat

Extinction Ratio:

>100,000:1 (700nm)
>10,000:1 (600 to 850nm)
>1,000:1 (600 to 1000nm)

Substrate:

Sodium Silicate Glass Doped with Glass Nanoparticles

Surface Quality:

40-20

Transmission (%):

>78%

Transmitted Wavefront, P-V:

<λ/4 @ 633nm per 1cm

Beam Deviation (arcmin):

<1

Polarization Axis Mark (%):

<0.5 (to indicated edge)

Wavelength Range (nm):

600 - 1000

Damage Threshold, By Design:

Continuous block
Continuous pass
Pulse peak power
Equivalent pulse power density
10 W/cm²
25 W/cm²
12 MW/cm²
1 μJ/cm²

Acceptance Angle (°):

±20

Threading & Mounting

Mount Thickness (mm):

Unmounted

Environmental & Durability Factors

Operating Temperature (°C):

-20 to +120

Regulatory Compliance

Certificate of Conformance:

[View](#)

Country of Origin:

Germany

Imported By:

Edmund Optics India Private Limited
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Product Details

- Multiple Wavelength Ranges for UV, VIS and NIR
- >100,000:1 Contrast Ratios Available
- Ideal for Use in Harsh Environments

UV, VIS-NIR, and NIR High Contrast Polarizers offer both versatility and performance over a wide range of wavelengths. These polarizers contain uniformly stretched silver nano-particles in a 220 ±25μm thick soda-lime glass laminated on a thicker soda-lime substrate for increased durability. UV, VIS-NIR, and NIR High Contrast Polarizers are ideal for harsh environments, can withstand up to 120°C, are resistant to UV-radiation and chemicals, and can be safely used in humid environments.

Technical Information

