

670nm, $\lambda/2$ Precision Zero Order Retarder



Stock #49-212 3 In Stock

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1

+

€755⁰⁰

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Volume Pricing	
Qty 1-5	€755,00 each
Qty 6+	€600,00 each
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Product Downloads

General

Type:

Polymer Waveplate

Physical & Mechanical Properties

Clear Aperture CA (mm):

10.16

25.40	Diameter (mm):
±0.508	Thickness Tolerance (mm):
±0.127	Dimensional Tolerance (mm):

Birefringent Polymer Stack	Construction:
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Optical Properties

670	Design Wavelength DWL (nm):
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Polymer Film on N-BK7	Substrate: ☐
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0.5	Reflection (%):
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$\lambda/2$	Retardance:
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40-20	Surface Quality:
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$\leq \lambda/5$ @ 632.8nm	Transmitted Wavefront, RMS:
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$\lambda/350$	Retardance Tolerance:
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1.00	Beam Deviation (arcmin):
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500 W/cm ²	Damage Threshold, By Design: ☐
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0	Retardance Order:
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Threading & Mounting

6.35	Mount Thickness (mm):
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Environmental & Durability Factors

-20 to +50	Operating Temperature (°C):
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Regulatory Compliance

Compliant	RoHS 2015:
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View	Certificate of Conformance:
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Compliant	REACH 241:
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Product Details

- $\lambda/4$ and $\lambda/2$ Retardance
- Excellent Angular Field of View
- Birefringent Polymer Stack
- High Damage Threshold of 500 W/cm²

Precision Zero Order Waveplates (Retarders) feature carefully aligned birefringent polymer sheets laminated between two precision N-BK7 windows, and are available in standard $\lambda/4$ and $\lambda/2$ options for common visible and NIR wavelengths. These polymer waveplates (retarders) offer excellent angular field of view because they are true zero-order retarders. Also, they will experience less than 1% retardance change over a $\pm 10^\circ$ angle of incidence. Each Precision Zero Order Waveplates (Retarders) is mounted in a metal ring with the fast axis clearly marked.