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## 780nm, $\lambda/4$ Precision Zero Order Retarder



Stock #49-222 **2 In Stock**

- 1 + €755<sup>00</sup>

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Volume Pricing	
Qty 1-5	€755,00 each
Qty 6+	€600,00 each
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Prices shown are exclusive of VAT/local taxes

### Product Downloads

### General

Polymer Waveplate **Type:**

### Physical & Mechanical Properties

10.16 **Clear Aperture CA (mm):**

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

Birefringent Polymer Stack	Construction:
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## Optical Properties

780	Design Wavelength DWL (nm):
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Polymer Film on <a href="#">N-BK7</a>	Substrate: <input type="checkbox"/>
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0.5	Reflection (%):
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$\lambda/4$	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 <sup>2</sup>	Damage Threshold, By Design: <input type="checkbox"/>
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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

<a href="#">Compliant</a>	RoHS 2015:
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<a href="#">View</a>	Certificate of Conformance:
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<a href="#">Compliant</a>	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/cm<sup>2</sup>

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.