

1550nm, $\lambda/4$ Precision Zero Order Retarder



Stock #49-226 **2 In Stock**

A\$1,208⁰⁰

ADD TO CART

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | A\$1,208.00 each |
| Qty 6+ | A\$960.00 each |
| Need More? | Request Quote |

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: |

Optical Properties

| | |
|---------------------------------------|---|
| 1550 | Design Wavelength DWL (nm): |
| Polymer Film on N-BK7 | Substrate: <input type="checkbox"/> |
| 0.5 | Reflection (%): |
| $\lambda/4$ | Retardance: |
| 40-20 | Surface Quality: |
| $\leq \lambda/5$ @ 632.8nm | Transmitted Wavefront, RMS: |
| $\lambda/350$ | Retardance Tolerance: |
| 1.00 | Beam Deviation (arcmin): |
| 500 W/cm ² | Damage Threshold, By Design: <input type="checkbox"/> |
| 0 | Retardance Order: |

Threading & Mounting

| | |
|------|-----------------------|
| 6.35 | Mount Thickness (mm): |
|------|-----------------------|

Environmental & Durability Factors

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

Regulatory Compliance

| | |
|---------------------------|-----------------------------|
| Compliant | RoHS 2015: |
| View | Certificate of Conformance: |
| Compliant | REACH 241: |

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.