

## 800nm, $\lambda/2$ Precision Zero Order Retarder



Stock #49-214 **2 In Stock**

C\$1,057<sup>00</sup>

**ADD TO CART**

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | C\$1,057.00 each              |
| Qty 6+         | C\$840.00 each                |
| Need More?     | <a href="#">Request Quote</a> |

### Product Downloads

### General

Polymer Waveplate **Type:**

### Physical & Mechanical Properties

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

25.40 **Diameter (mm):**

|                                       |  |
|---------------------------------------|--|
| ±0.508                                | <b>Thickness Tolerance (mm):</b>                             |
| ±0.127                                | <b>Dimensional Tolerance (mm):</b>                           |
| Birefringent Polymer Stack            | <b>Construction:</b>   |
| <b>Optical Properties</b>             |  |
| 800                                   | <b>Design Wavelength DWL (nm):</b>                           |
| Polymer Film on <a href="#">N-BK7</a> | <b>Substrate:</b> <input type="checkbox"/>                   |
| 0.5                                   | <b>Reflection (%):</b>                                       |
| $\lambda/2$                           | <b>Retardance:</b>   |
| 40-20                                 | <b>Surface Quality:</b>                                      |
| $\leq \lambda/5$ @ 632.8nm            | <b>Transmitted Wavefront, RMS:</b>                           |
| $\lambda/350$                         | <b>Retardance Tolerance:</b>                                 |
| 1.00                                  | <b>Beam Deviation (arcmin):</b>                              |
| 500 W/cm <sup>2</sup>                 | <b>Damage Threshold, By Design:</b> <input type="checkbox"/> |
| 0                                     | <b>Retardance Order:</b>                                     |

### Threading & Mounting

|      |                              |
|------|------------------------------|
| 6.35 | <b>Mount Thickness (mm):</b> |
|------|------------------------------|

### Environmental & Durability Factors

|            |                                    |
|------------|------------------------------------|
| -20 to +50 | <b>Operating Temperature (°C):</b> |
|------------|------------------------------------|

### Regulatory Compliance

|                           |                                    |
|---------------------------|------------------------------------|
| <a href="#">Compliant</a> | <b>RoHS 2015:</b>                  |
| <a href="#">View</a>      | <b>Certificate of Conformance:</b> |
| <a href="#">Compliant</a> | <b>REACH 241:</b>                  |

## 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.