

[See all 18 Products in Family](#)

## 632.8nm, $\lambda/4$ Precision Zero Order Retarder



Stock **#49-220** **2 In Stock**

- 1 + €755<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €755,00 each                  |
| Qty 6+         | €600,00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

ⓘ 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: |
|----------------------------|---------------|

Optical Properties

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| 632.8                                 | Design Wavelength DWL (nm):         |
| Polymer Film on <a href="#">N-BK7</a> | 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 <sup>2</sup> | 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

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

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.