

## 632.8nm, $\lambda/2$ Precision Zero Order Retarder



Stock **#49-211** **2 In Stock**

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

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Qty 1-5	C\$1,057.00 each
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### 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 [N-BK7](#) Substrate:

0.5 Reflection (%):

$\lambda/2$  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:

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/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.