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## 830nm, $\lambda/4$ Precision Zero Order Retarder



Stock #49-224 **4 In Stock**

1  MRP ₹76,173

Price inclusive of all taxes

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### General

Polymer Waveplate **Type:**

### Physical & Mechanical Properties

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

**Diameter (mm):**

25.40

±0.508 **Thickness Tolerance (mm):**

±0.127 **Dimensional Tolerance (mm):**

Birefringent Polymer Stack **Construction:**

## Optical Properties

830 **Design Wavelength DWL (nm):**

Polymer Film on **N-BK7** **Substrate:**

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:**

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:**

United States **Country of Origin:**

Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
Stage 1, Indiranagar, Bengaluru,  
Karnataka, India 560038  
Phone: +91-80-6845 0000 **Imported By:**

## 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.