

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



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

1  MRP ₹76,173

**Price inclusive of all taxes**

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Volume Pricing	
Qty 1-5	₹76,173 each
Qty 6+	₹60,534 each
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### Product Downloads

### 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

800 **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:**

United States **Country of Origin:**

**Imported By:**  
Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
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## 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.