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800nm, $\lambda/4$ Precision Zero Order Retarder



Stock #49-223 **1 In Stock**

1 MRP ₹76,173

Price inclusive of all taxes

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Qty 1-5	₹76,173 each
Qty 6+	₹60,534 each
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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

800 **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/cm² **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,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
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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/cm²

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.