

$\lambda/2$ 485-630nm, Polymer Achromatic Retarder



Stock #49-227 **2 In Stock**

⊖ 1 ⊕ £1,000⁰⁰

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Volume Pricing

Qty 1-5	£1,000.00 each
Qty 6+	£888.00 each
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Product Downloads

General

Achromatic Waveplate **Type:**

Physical & Mechanical Properties

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

25.40 **Diameter (mm):**

6.35 ±0.508 Thickness (mm):

±0.127 Dimensional Tolerance (mm):

Birefringent Polymer Stack Construction:

Optical Properties

N-BK7 Substrate:

0.5 Reflection (%):

$\lambda/2$ Retardance:

40-20 Surface Quality:

$\lambda/4$ @ 632.8nm Transmitted Wavefront, P-V:

$\lambda/100$ Retardance Tolerance:

1.00 Beam Deviation (arcmin):

485 - 630 Wavelength Range (nm):

500 W/cm² Damage Threshold, By Design:

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

- Broad Spectral Range
- $\lambda/100$ Retardance Accuracy
- $\lambda/4$ and $\lambda/2$ Retardance
- High Damage Threshold of 500 W/cm²

Precision Achromatic Waveplates (Retarders) consist of a polymer stack layered between two precision BK7 windows, and are available in standard $\lambda/4$ and $\lambda/2$ options for common visible and NIR wavelengths. These waveplates (retarders) will experience less than 1% retardance change over a $\pm 10^\circ$ angle of incidence. Each Precision Achromatic Waveplates (Retarders) is mounted in a metal ring with the fast axis clearly marked.

Technical Information

