

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



Stock #49-227 **1 In Stock**

- 1 + MRP ₹1,26,113

i Price inclusive of all taxes

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Volume Pricing

Qty 1-5	₹1,26,113 each
Qty 6+	₹1,11,988 each
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General

Achromatic Waveplate **Type:**

Physical & Mechanical Properties

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

25.40 **Diameter (mm):**

Thickness (mm):

6.35 ±0.508

Dimensional Tolerance (mm):

±0.127

Construction:

Birefringent Polymer Stack

Optical Properties

Substrate:

N-BK7

Reflection (%):

0.5

Retardance:

$\lambda/2$

Surface Quality:

40-20

Transmitted Wavefront, P-V:

$\lambda/4$ @ 632.8nm

Retardance Tolerance:

$\lambda/100$

Beam Deviation (arcmin):

1.00

Wavelength Range (nm):

485 - 630

Damage Threshold, By Design:

500 W/cm²

Threading & Mounting

Mount Thickness (mm):

6.35

Environmental & Durability Factors

Operating Temperature (°C):

-20 to +50

Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

[View](#)

REACH 241:

Compliant

Country of Origin:

United States

Imported By:

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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

$\lambda/2$ Precision Achromatic Retarder Performance

