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405nm, $\lambda/2$ Polymer Waveplate



Polymer Waveplates (Retarders)

Stock **#91-011** **5 In Stock**

⊖ 1 ⊕ £265⁰⁰

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Volume Pricing

Qty 1-5	£265.60 each
Qty 6-25	£212.80 each
Qty 26+	£193.60 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Polymer Waveplate **Type:**

Physical & Mechanical Properties

25.00 **Diameter (mm):**

Thickness (mm):

2.00 ±0.2

Parallelism (arcmin):

3.00

Dimensional Tolerance (mm):

+0.0/-0.2

Construction:

Birefringent Polymer Stack

Optical Properties

Coating:

R_{avg} <0.5% @400 - 700nm

Design Wavelength DWL (nm):

405

Substrate:

B270

Retardance:

λ/2

Retardance Tolerance (nm):

±10 @405

Retardance Order:

0

Regulatory Compliance

RoHS 2015:

Compliant

Reach 224:

Compliant

Certificate of Conformance:

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Product Details

- True Zero Order Waveplate Performance
- λ/4 and λ/2 Retardance
- Available with Multiple Wavelengths or Achromatic Designs

Polymer Waveplates (Retarders) are durable, low-cost alternatives to quartz waveplates that feature a thin birefringent polymer film layered between two glass windows. The waveplates are designed to act as true zero order waveplates, providing stable performance over wavelength shift and wide angles of incidence. Due to their cemented construction and plastic birefringence material, these waveplates, or retarders, are not recommended for high power laser use or for extreme temperature shifts. Polymer Waveplates (Retarders) have either λ/4 and λ/2 retardance. They are offered in 405 to 650nm.

Note: Fast axis is marked on the edge of the glass.