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650nm, $\lambda/2$ Polymer Waveplate



Polymer Waveplates (Retarders)

Stock **#91-013** [CONTACT US](#)

⊖ 1 ⊕ **S\$464⁰⁰**

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Volume Pricing	
Qty 1-5	S\$464.80 each
Qty 6-25	S\$372.40 each
Qty 26+	S\$338.80 each
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General

Polymer Waveplate **Type:**

Physical & Mechanical Properties

25.00 **Diameter (mm):**

2.00 ±0.2 **Thickness (mm):**

3.00 **Parallelism (arcmin):**

+0.0/-0.2 **Dimensional Tolerance (mm):**

Birefringent Polymer Stack **Construction:**

Optical Properties

$R_{avg} < 0.5\%$ @ 400 - 700nm **Coating:**

650 **Design Wavelength DWL (nm):**

B270 **Substrate:** □

$\lambda/2$ **Retardance:**

± 10 @ 650 **Retardance Tolerance (nm):**

0 **Retardance Order:**

Regulatory Compliance

Compliant **RoHS 2015:**

Compliant **Reach 224:**

View **Certificate of Conformance:**

Product Details

- True Zero Order Waveplate Performance
- $\lambda/4$ and $\lambda/2$ 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 $\lambda/4$ and $\lambda/2$ retardance. They are offered in 405 to 650nm.

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