

## Wide Angle $\lambda/4$ Waveplate, 25.4mm Dia. 1550nm



Stock #29-819 **1 In Stock**

- 1 + A\$3,408<sup>00</sup>

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### Product Downloads

### General

Polymer Waveplate **Type:**

### Physical & Mechanical Properties

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

25.40 **Diameter (mm):**

+/- 0.13 **Dimensional Tolerance (mm):**

## Optical Properties

±30 **Angle of Incidence (°):**

1550 **Design Wavelength DWL (nm):**

Polymer Film on [N-BK7](#) **Substrate:**

0.5 **Reflection (%):**

$\lambda/4$  **Retardance:**

60-40 **Surface Quality:**

$\leq \lambda/2$  @ 632.8nm **Transmitted Wavefront, RMS:**

$\leq \lambda/250$  @ 0 deg AOI,  $\lambda/200$  at 30 deg **Retardance Tolerance:**

$\leq 1$  arcmin **Beam Deviation (arcmin):**

## Threading & Mounting

6.35 **Mount Thickness (mm):**

## Environmental & Durability Factors

0 - 40 **Operating Temperature (°C):**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **REACH 241:**

## Product Details

- Up To  $\lambda/250$  Retardance Tolerances Out to 30° AOI
- Near Zero-Order Laminated Polymer Construction
- Ideal for Applications with Wide Acceptance Angles

Wide Angle Waveplates are designed to accept a large range of input angles, up to 30° AOI, with minimal retardance shift at non-zero angles of incidence. These waveplates are available with visible or NIR designed wavelengths of 532, 633, 1064 or 1550nm and with  $\lambda/2$  or  $\lambda/4$  retardance values. Featuring  $\leq \lambda/250$  quarter-wave and  $\leq \lambda/100$  half-wave retardance accuracies at the center, these waveplates are ideal for applications that require low sensitivity to AOI. Wide Field Waveplates are mounted and constructed with birefringent polymer on a N-BK7 substrate and coated with BBAR coatings.

**Note:** The fast axis is marked with a line.