

Wide Angle $\lambda/4$ Waveplate, 25.4mm Dia. 532nm



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1

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€2.130^{.00}

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General

Type:

Polymer Waveplate

Physical & Mechanical Properties

Clear Aperture CA (mm):

17.8

Diameter (mm):

25.40

Dimensional Tolerance (mm):

+/- 0.13

Optical Properties	
±30	Angle of Incidence (°):
532	Design Wavelength DWL (nm):
Polymer Film on N-BK7	Substrate: ☐
0.5	Reflection (%):
$\lambda/4$	Retardance:
60-40	Surface Quality:
≤ $\lambda/2$ @ 632.8nm	Transmitted Wavefront, RMS:
≤ $\lambda/250$ @ 0 deg AOI, $\lambda/200$ at 30 deg	Retardance Tolerance:
≤ 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 ≤ $\lambda/250$ quarter-wave and ≤ $\lambda/100$ 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.