

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



Stock **#49-227** 2 In Stock

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+

A\$2,000^{.00}

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Volume Pricing	
Qty 1-5	A\$2,000.00 each
Qty 6+	A\$1,776.00 each
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General

Type:

Achromatic Waveplate

Physical & Mechanical Properties

Clear Aperture CA (mm):

10.16

Diameter (mm):

25.40

Thickness (mm):

6.35 ±0.508

Dimensional Tolerance (mm):	
±0.127	
Construction:	
Birefringent Polymer Stack	
Optical Properties	
N-BK7	Substrate: ☐
	Reflection (%):
	0.5
λ/2	Retardance:
40-20	Surface Quality:
Transmitted Wavefront, P-V:	
λ/4 @ 632.8nm	
Retardance Tolerance:	
λ/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	

Product Details

- Broad Spectral Range
- λ/100 Retardance Accuracy
- λ/4 and λ/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 λ/4 and λ/2 options for common visible and NIR wavelengths. These waveplates (retarders) will experience less than 1% retardance change over a ±10° angle of incidence. Each Precision Achromatic Waveplates (Retarders) is mounted in a metal ring with the fast axis clearly marked.

Technical Information

