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50.8mm Dia, 340 - 560nm, $\lambda/2$ Achromatic Waveplate



Achromatic Waveplates (Retarders)

Stock **#39-029** **1 In Stock**

⊖ 1 ⊕ €3.495⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	€3.495,00 each
Qty 6+	€3.025,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Achromatic Waveplate **Type:**
Air Spaced **Configuration:**

Physical & Mechanical Properties

>34.0 **Clear Aperture CA (mm):**

50.80	Diameter (mm):
6.00 ±0.2	Thickness (mm):
+0/-0.25	Dimensional Tolerance (mm):
Crystalline	Construction:
<10	Parallelism (arcsec):
+0/-0.25	Housing Tolerance (mm):

Optical Properties

R _{avg} <0.75% @ 340 - 560nm	Coating:
Crystal Quartz and MgF ₂	Substrate: <input type="checkbox"/>
λ/2	Retardance:
40-20	Surface Quality:
<λ/4 @ 632nm	Transmitted Wavefront, P-V:
λ/100 @ 20°C	Retardance Tolerance:
R _{avg} <0.75% @ 340 - 560nm	Coating Specification:
340 - 560	Wavelength Range (nm):
>5 J/cm ² @ 1064nm, 10ns, 10Hz	Damage Threshold, By Design: <input type="checkbox"/>

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

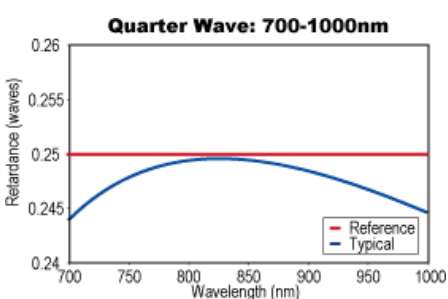
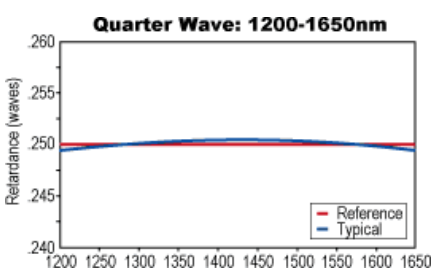
Product Details

- Multiple Wavelength Ranges Available
- Flat Response Over Each Broad Spectral Range
- λ/4 and λ/2 Retardance
- Mounted in Black Anodized Aluminum Housing

Achromatic Waveplates (Retarders) provide a constant phase shift independent of the wavelength of light that is used. This wavelength independence is achieved by using two different birefringent crystalline materials. The relative shifts in retardation over the wavelength range are balanced between the two materials used. Achromatic Waveplates (Retarders), with their flat response, are ideal for use with tunable lasers, multiple laser line systems, and other broad-spectrum sources.

Designed to be used at an angle of incidence of 0°, changes of ±3° will yield less than 1% change in retardance. The 23mm clear aperture waveplates will feature a cemented construction. All Achromatic Waveplates (Retarders) are mounted in an anodized aluminum housing with the fast axis clearly indicated.

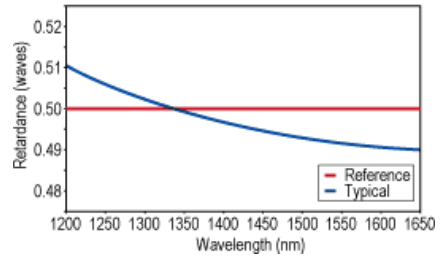
Technical Information



25.4mm Diameter Waveplates



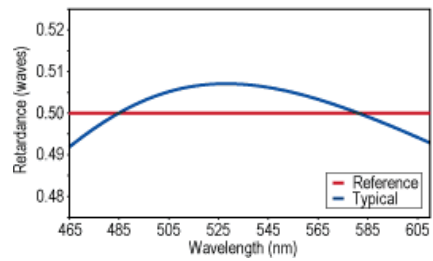
Half Wave: 1200-1650nm



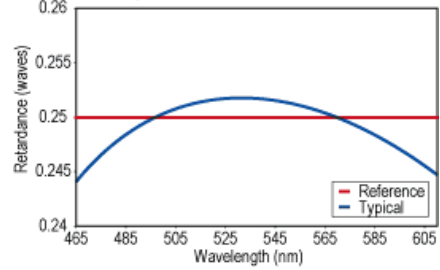
Half Wave: 700-1000nm



Half Wave: 465-610nm



Quarter Wave: 465-610nm



30.0mm Diameter Waveplates

