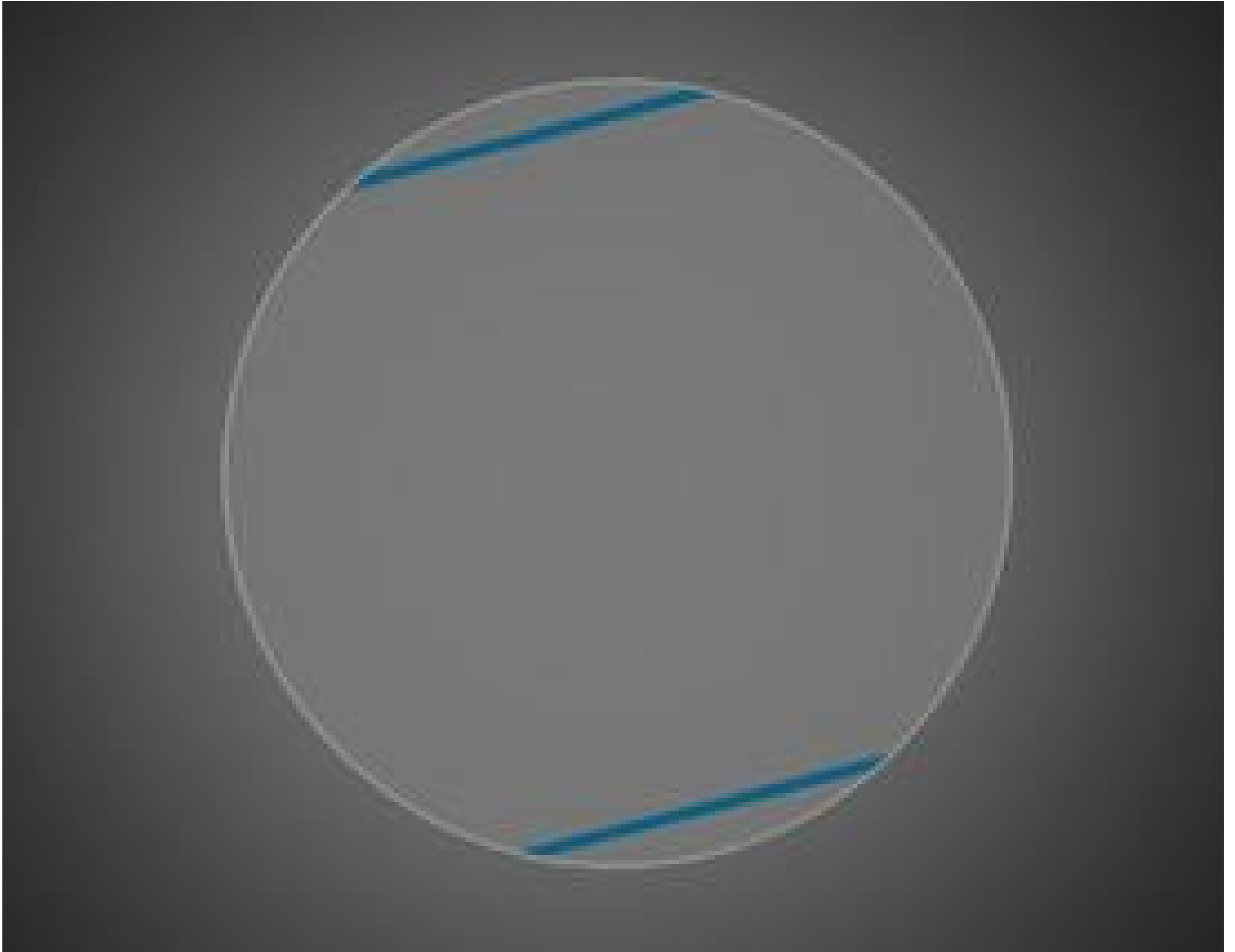


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Film-Format Achromatic Polymer Retarder $\lambda/4$ 25.4mm Dia AR



Stock #70-574 [CONTACT US](#)

- 1 + €735^{.00}

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Volume Pricing	
Qty 1-10	€735,00 each
Qty 11-25	€555,00 each
Qty 26+	€515,00 each
Need More?	Request Quote

! Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Note:
Slow axis marked with blue dot on part and stripe on protective film

Physical & Mechanical Properties

Diameter (mm):
25.40 +/- 0.15

Thickness (mm):

0.55 Nominal

Optical Properties

Angle of Incidence (°):

±10

Substrate:

Polymer Stack

Retardance:

$\lambda/4 \pm \lambda/100$

Surface Quality:

60-40

Coating Specification:

BBAR: $R \leq 0.75\%$ @ 700-1100nm (per surface)

Wavelength Range (nm):

700 - 1100

Damage Threshold, By Design:

500 Watt/cm² CW, 3 J/cm² 10 nsec pulses @ 532nm, 2 J/cm² 20 nsec pulses @ 1064nm typical

Coating Type:

Anti-Reflection (both sides)

Environmental & Durability Factors

Operating Temperature (°C):

-20 to +40

Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 250:

[Compliant](#)

Product Details

- Ultra-Thin ≤ 0.55 mm Substrates for OEM Integration
- Options For 700-1100nm and 700-1550nm
- Wide Acceptance Angle Tolerance of $\pm 10^\circ$

Ultra-Thin NIR Achromatic Polymer Retarders feature an optically fused and adhesive-free construction, allowing for high temperature resistance, high transmission, and an ultra-thin format. These retarders are designed with a multi-layer polymer stack and feature a 0.35mm thickness for $\lambda/2$ retarders and 0.55mm thickness for $\lambda/4$ retarders. Available either uncoated or with an AR-Coating, these retarders offer a retardance tolerance of $\lambda/100$ in the NIR range at a wide range of angles of incidence. Uncoated Ultra-Thin NIR Achromatic Polymer Retarders offer an increased retardance range of 700-1550nm while the coated options feature improved transmission from 700-1100nm. These waveplates are ideal for NIR imaging and analytical instrumentation, as well as OEM integration and other applications requiring a small form factor.