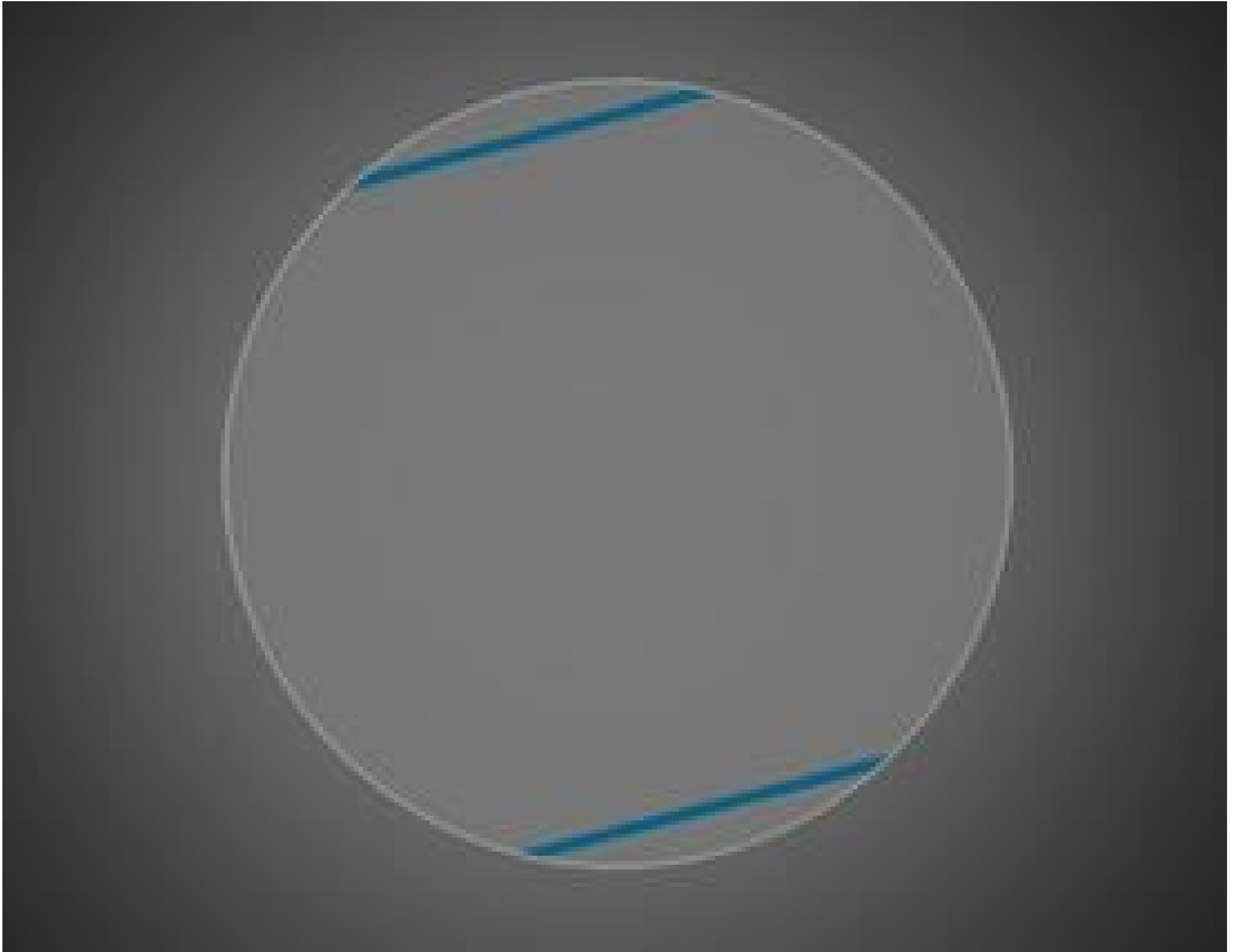


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Film-Format Achromatic Polymer Retarder $\lambda/4$ 25.4mm Dia Uncoated



Stock #70-709 [CONTACT US](#)

⊖ 1 ⊕ A\$1,080⁰⁰

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Volume Pricing	
Qty 1-10	A\$1,080.00 each
Qty 11-25	A\$816.00 each
Qty 26+	A\$756.80 each
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General

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

Physical & Mechanical Properties

25.40 +/- 0.15 **Diameter (mm):**

0.55 Nominal **Thickness (mm):**

Optical Properties

±10 **Angle of Incidence (°):**

Polymer Stack **Substrate:** □

$\lambda/4 \pm \lambda/100$ **Retardance:**

60-40 **Surface Quality:**

700 - 1550 **Wavelength Range (nm):**

Damage Threshold, By Design: □
500 Watt/cm² CW, .3 J/cm² 10 nsec pulses @ 532nm, 2 J/cm² 20 nsec pulses @ 1064nm typical

Uncoated **Coating Type:**

Environmental & Durability Factors

-20 to +40 **Operating Temperature (°C):**

Regulatory Compliance

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

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

[Compliant](#) **Reach 250:**

Product Details

- Ultra-Thin ≤0.55mm Substrates for OEM Integration
- Options For 700-1100nm and 700-1550nm
- Wide Acceptance Angle Tolerance of ±10°

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.