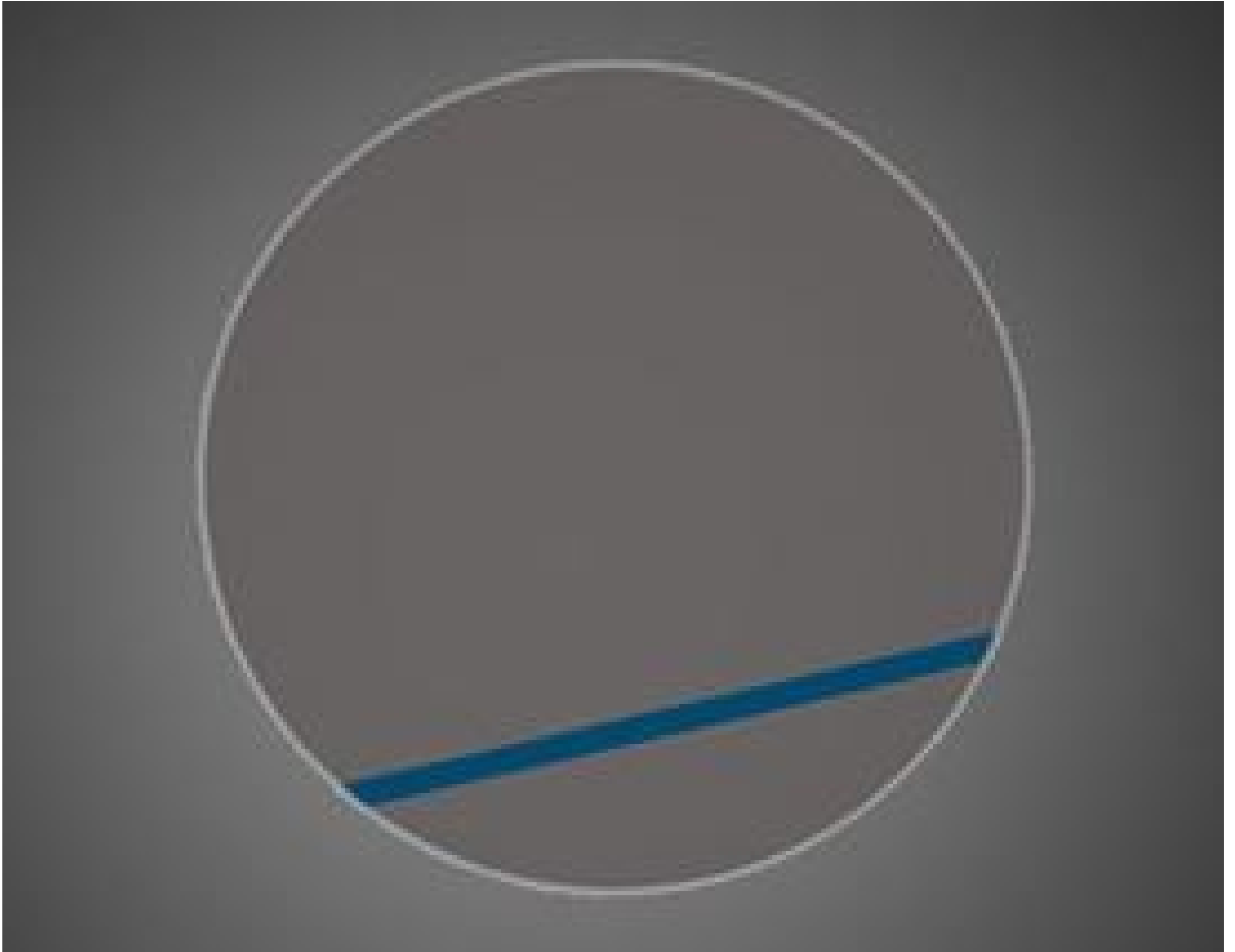


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Film-Format Achromatic Polymer Retarder $\lambda/2$ 12.7mm Dia AR



Stock #70-575 [CONTACT US](#)

- 1 + C\$833.⁰⁰

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Volume Pricing	
Qty 1-10	C\$833.00 each
Qty 11-25	C\$630.00 each
Qty 26+	C\$583.80 each
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General

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

Physical & Mechanical Properties

12.70 +/- 0.15 **Diameter (mm):**

0.35 Nominal **Thickness (mm):**

Optical Properties

±10 **Angle of Incidence (°):**

Polymer Stack **Substrate:** □

$\lambda/2 \pm \lambda/100$ **Retardance:**

60-40 **Surface Quality:**

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

700 - 1100 **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

Anti-Reflection (both sides) **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 $\leq 0.55\text{mm}$ 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.