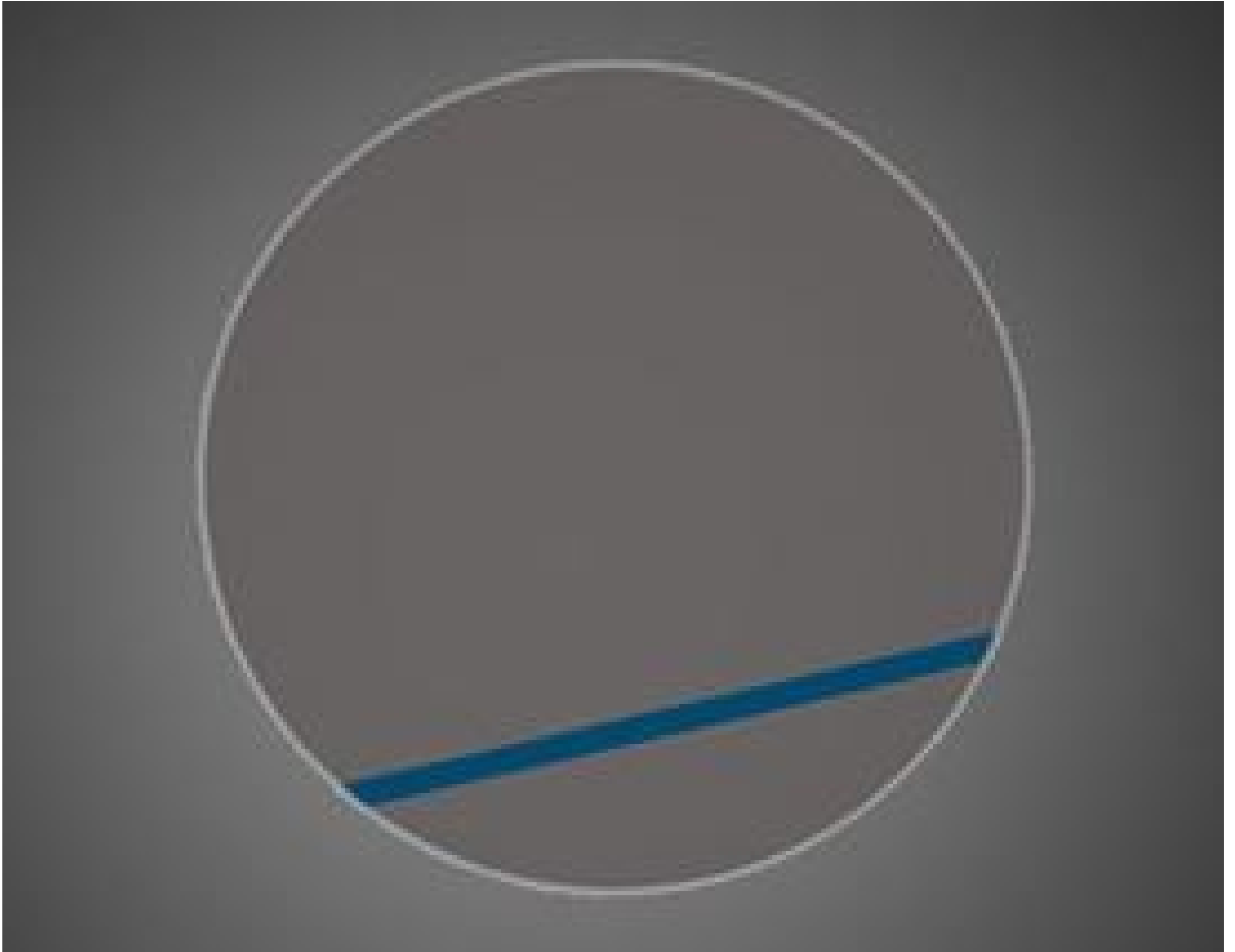


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## Film-Format Achromatic Polymer Retarder $\lambda/2$ 12.7mm Dia AR



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

- 1 + €595<sup>00</sup>

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Volume Pricing	
Qty 1-10	€595,00 each
Qty 11-25	€450,00 each
Qty 26+	€417,00 each
Need More?	<a href="#">Request Quote</a>

! 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):  
12.70 +/- 0.15

Thickness (mm):

0.35 Nominal

## Optical Properties

±10 **Angle of Incidence (°):**

Polymer Stack **Substrate:** □

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

60-40 **Surface Quality:**

BBAR: R<= 0.75% @ 700-1100nm (per surface) **Coating Specification:**

700 - 1100 **Wavelength Range (nm):**

500 Watt/cm<sup>2</sup> CW, 3 J/cm<sup>2</sup> 10 nsec pulses @ 532nm, 2 J/cm<sup>2</sup> 20 nsec pulses @ 1064nm typical **Damage Threshold, By Design:** □

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 ≤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.