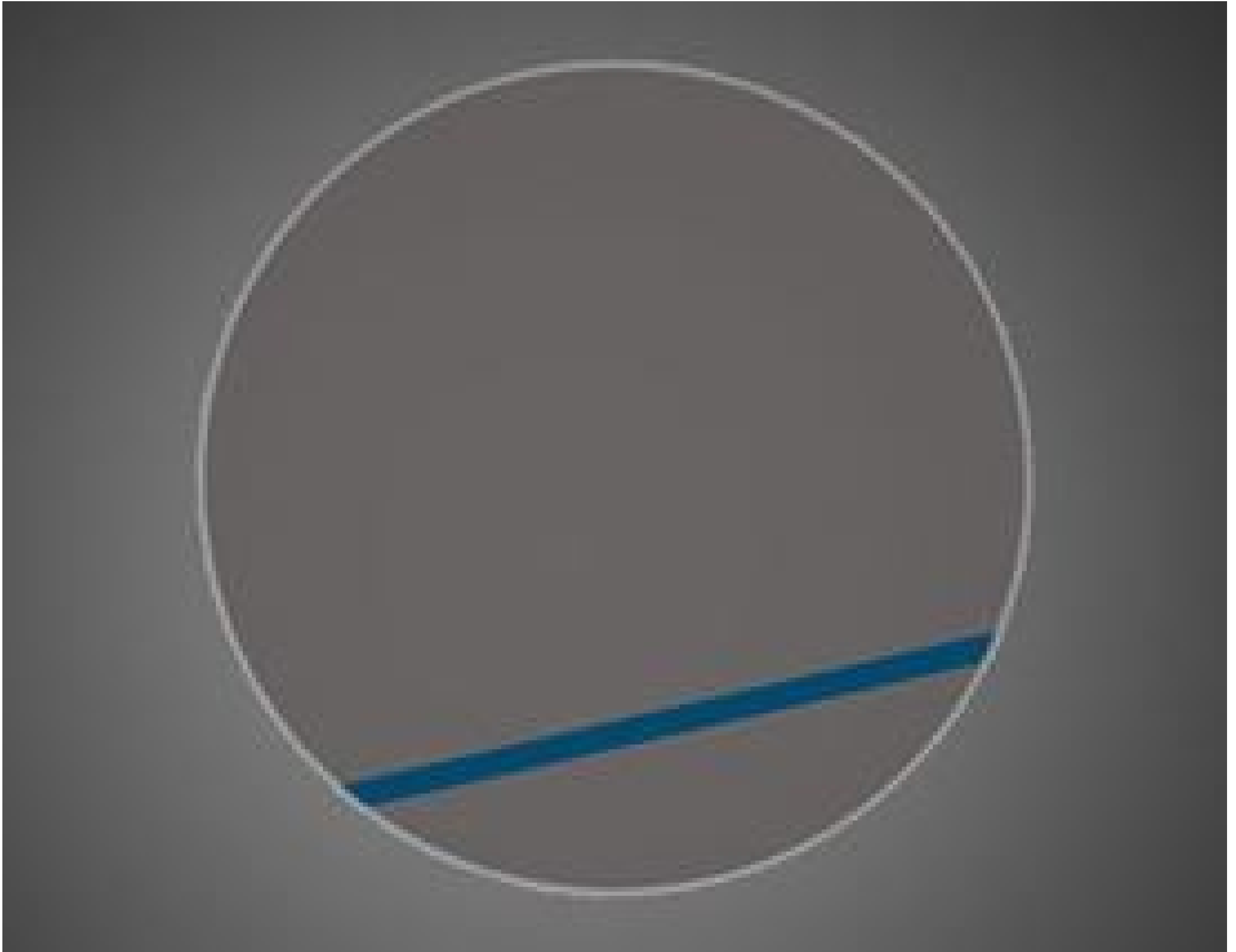


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## Film-Format Achromatic Polymer Retarder $\lambda/4$ 12.7mm Dia AR



Stock #70-573 **14 In Stock**

⊖ 1 ⊕ £476<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-10	£476.00 each
Qty 11-25	£360.00 each
Qty 26+	£333.60 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

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

**Thickness (mm):**

0.55 Nominal

## Optical Properties

**Angle of Incidence (°):**  
±10

**Substrate:**   
Polymer Stack

**Retardance:**  
λ/4 ± λ/100

**Surface Quality:**  
60-40

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

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

**Damage Threshold, By Design:**   
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

**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 ≤0.55mm 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 λ/2 retarders and 0.55mm thickness for λ/4 retarders. Available either uncoated or with an AR-Coating, these retarders offer a retardance tolerance of λ/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.