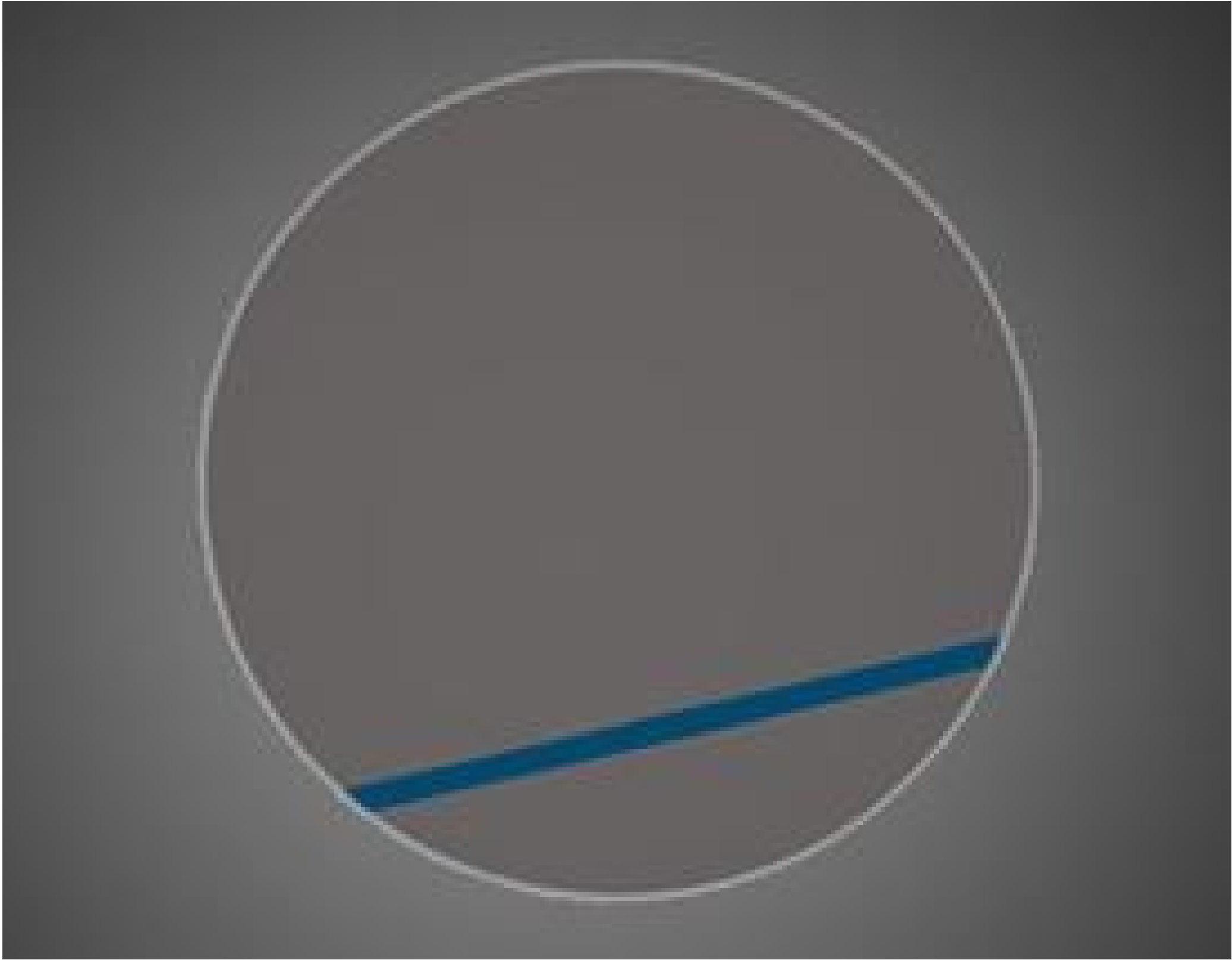


Film-Format Achromatic Polymer Retarder $\lambda/2$ 12.7mm Dia AR



Stock **#70-575** 5 In Stock

-

1

+

£476^{.00}

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Volume Pricing	
Qty 1-10	£476.00 each
Qty 11-25	£360.00 each
Qty 26+	£333.60 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):
12.70 +/- 0.15

Thickness (mm):

0.35 Nominal

Optical Properties	
±10	Angle of Incidence (°):
Polymer Stack	Substrate: ☐
λ/2 ± λ/100	Retardance:
60–40	Surface Quality:
BBAR: R<= 0.75% @ 700-1100nm (per surface)	Coating Specification:
700 - 1100	Wavelength Range (nm):
500 Watt/cm² CW, .3 J/cm² 10 nsec pulses @ 532nm, 2 J/cm² 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 600-1100nm 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.