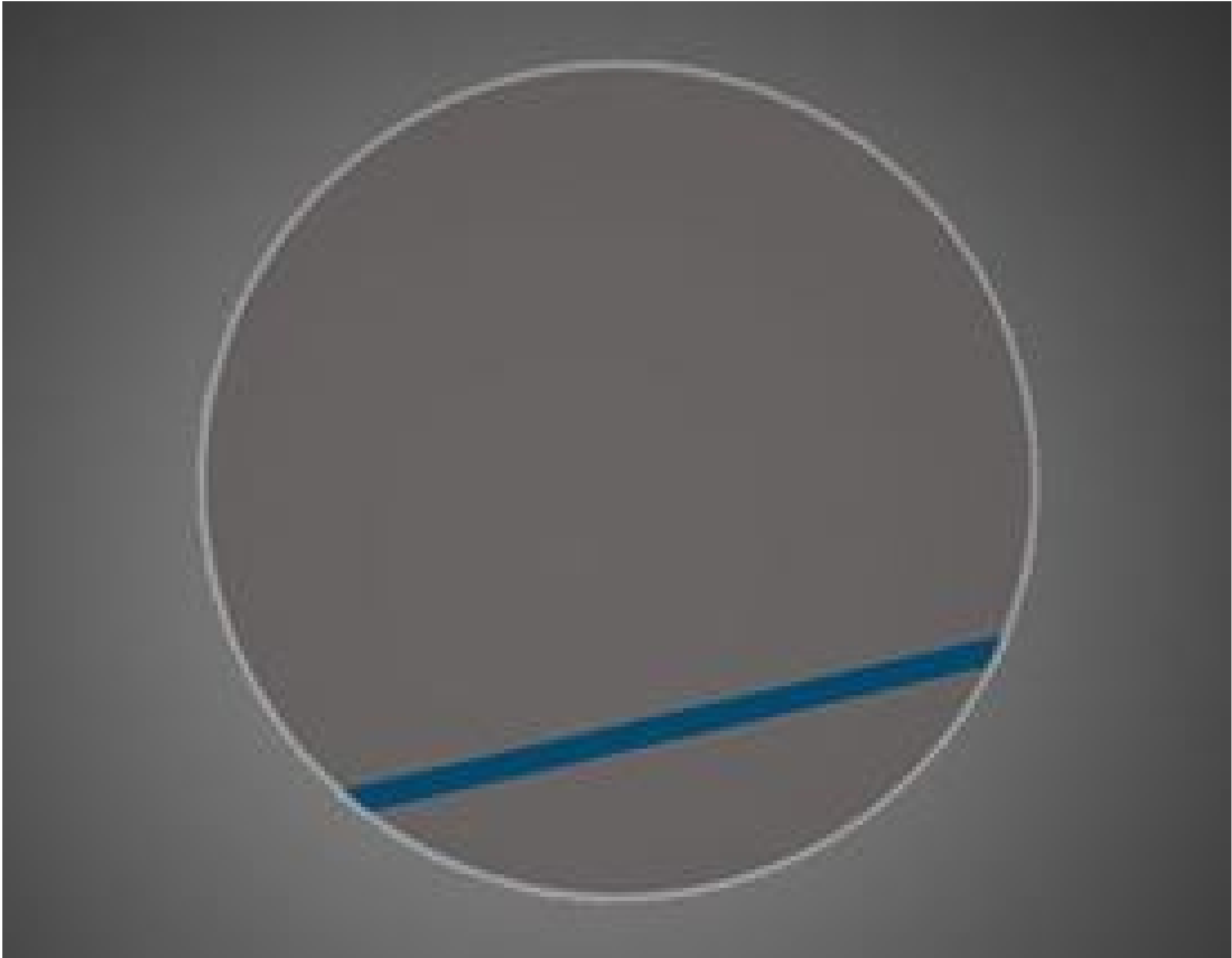


# Film-Format Achromatic Polymer Retarder $\lambda/4$ 12.7mm Dia Unc



Stock **#70-708** 7 In Stock

-

1

+

€540<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-10       | €540,00 each                  |
| Qty 11-25      | €407,00 each                  |
| Qty 26+        | €380,00 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):**

0.55 Nominal

| Optical Properties                                                                                                                                 |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| ±10                                                                                                                                                | Angle of Incidence (°):             |
| Polymer Stack                                                                                                                                      | Substrate: <input type="checkbox"/> |
| λ/4 ± λ/100                                                                                                                                        | Retardance:                         |
| 60–40                                                                                                                                              | Surface Quality:                    |
| 700 - 1550                                                                                                                                         | Wavelength Range (nm):              |
| Damage Threshold, By Design: <input type="checkbox"/><br>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 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.