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



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

- 1 + €540^{.00}

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Volume Pricing

Qty 1-10	€540,00 each
Qty 11-25	€407,00 each
Qty 26+	€380,00 each
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! 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

Angle of Incidence (°):
±10

Substrate: □
Polymer Stack

Retardance:
λ/4 ± λ/100

Surface Quality:
60-40

Wavelength Range (nm):
700 - 1550

Damage Threshold, By Design: □
500 Watt/cm² CW, .3 J/cm² 10 nsec pulses @
532nm, 2 J/cm² 20 nsec pulses @ 1064nm typical

Coating Type:
Uncoated

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.