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TECHSPEC® 12.5 x 12.5mm Wire Grid Polarizing Film (WG-1)



TECHSPEC® Wire Grid Polarizing Film

Stock **#70-546** CLEARANCE CONTACT US

⊖ 1 ⊕ C\$91⁰⁰

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Volume Pricing	
Qty 1-10	C\$91.00 each
Qty 11+	C\$72.80 each
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General

Linear Polarizer Type:

Physical & Mechanical Properties

12.50 x 12.50 ±0.30 Dimensions (mm):

0.19 ±0.30 Thickness (mm):

Construction:

Optical Properties

0 - 45 **Angle of Incidence (°):**

2000:1 Avg (Typical, 400-1200nm) **Extinction Ratio:**

Aluminium Wires on COP **Substrate:**

Single: 44 Avg (Typical, 400-1200nm); Parallel: 36 Avg (Typical, 400-1200nm); Crossed: 0.02 Avg (Typical, 400-1200nm) **Transmission (%):**

400 - 1200 **Wavelength Range (nm):**

0° ±2°, marked by Notch **Axis Orientation:**

Environmental & Durability Factors

60 Max @ 90% RH 105 in dry conditions **Operating Temperature (°C):**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

Product Details

- High Contrast, Reflective Design
- Excellent Visible and NIR Performance
- Superior Durability Under High Temperatures and Humidity

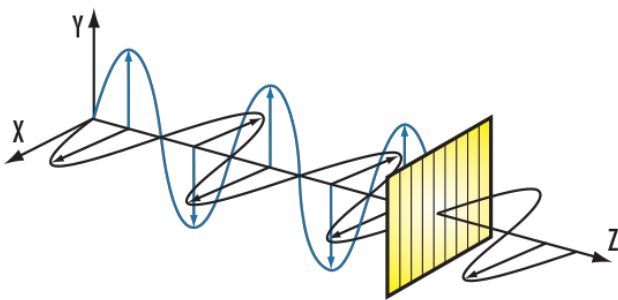
TECHSPEC® Wire Grid Polarizing Film is ideal for applications requiring high contrast polarization, including pico projectors, polarizing beamsplitters, and heads up displays. Wire Grid Polarizing Film is designed to transmit the required polarization state while reflecting the unwanted state. Since these polarizers have spectrally flat performance at angle of incidences up to 45°, they can also be used as polarizing beamsplitters. Additionally, TECHSPEC® Wire Grid Polarizing Film feature excellent durability in high temperature or humid environments and provide excellent performance in the visible and NIR spectra from 400 – 1200nm.

Note: Due to the wire grid being exposed, special care should be taken when handling to prevent damage to the polarizer.

Immediate Custom Quotes Available

If you have a need for any round, square, or rectangular size of a TECHSPEC Wire Grid Polarizing Film in dimensions between 3mm and 600mm, please visit our [Polarizing Film Tool](#). We'll provide an immediate quote, and can deliver the part to your requested size in approximately 3 weeks. A full list of standard manufacturing tolerances and restrictions are listed. For fully customized polymer polarizers to your requirements, visit our [Customized Polymer Polarizers Capabilities](#) page.

Technical Information



Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools