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TECHSPEC® 100 x 100mm Linear Polarizer (XP42-100)



Stock #19-955 **20+ In Stock**

- 1 + A\$81⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-10	A\$81.60 each
Qty 11-25	A\$67.52 each
Need More?	Request Quote

Product Downloads

General

Linear Polarizer **Type:**

Note:
Polarization axis can be identified as follows:
Circular Parts - Parallel to direction of notch on polarizer
Square Parts - Parallel to mark on protective film
Rectangular Parts - Parallel to first listed dimension

Physical & Mechanical Properties

Dimensions (mm):

100.0 x 100.0 +1.0/-1.0

Thickness (mm):

1.02 ±0.25

Construction:

Polarizing Film on PMMA

Optical Properties

Extinction Ratio:

up to 9000:1 (nominal at 555nm)

Substrate:

[Polymer Film XP42-100](#)

Transmission (%):

Single: 42 ±2
Parallel: 36.4
Crossed: <0.004 (nominal at 555nm)

Wavelength Range (nm):

400 - 700

Polarization Efficiency (%):

>99.98 (nominal at 555nm)

Transmission Variance after 1000 Hours (%):

<±5

Environmental & Durability Factors

Operating Temperature (°C):

-10 to +60

Operating Humidity:

≤80% (no condensation)

Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 247:

[Compliant](#)

Product Details

- High Transmission of Unpolarized Light from 400 – 700nm
- Excellent Extinction Ratio of 9000:1
- Available in Custom Sizes
- [High-Temperature](#) Options Also Available

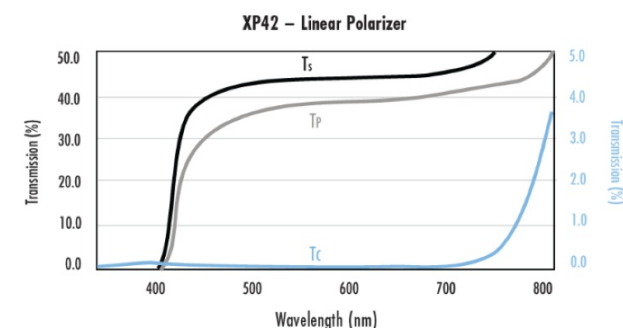
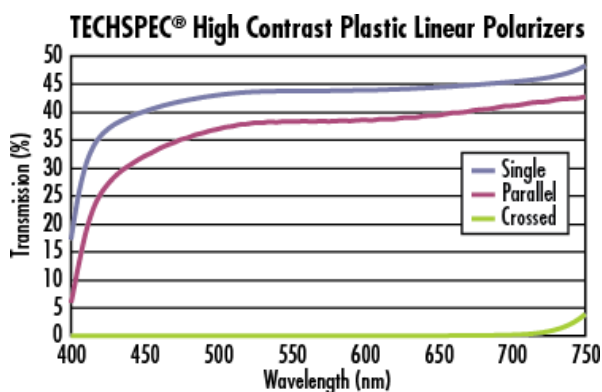
Ideal for a range of imaging applications, TECHSPEC® High Contrast Linear Polarizing Film (XP42) features an excellent extinction ratio and high transmission from 400 – 700nm. This polarizing film is offered in multiple thicknesses; thicker polarizing film has increased rigidity. Available in sheets, TECHSPEC® High Contrast Linear Polarizing Film (XP42) can be cut to fit any application need.

Note: Polarizer Film with adhesive available.

Immediate Custom Quotes Available

If you have a need for any round, square, or rectangular size of a TECHSPEC High Contrast Linear Polarizing Film (XP42) 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



XP44 - Linear Polarizer

