

[See all 72 Products in Family](#)

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



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

- 1 + C\$71⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-10	C\$71.40 each
Qty 11-25	C\$59.08 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

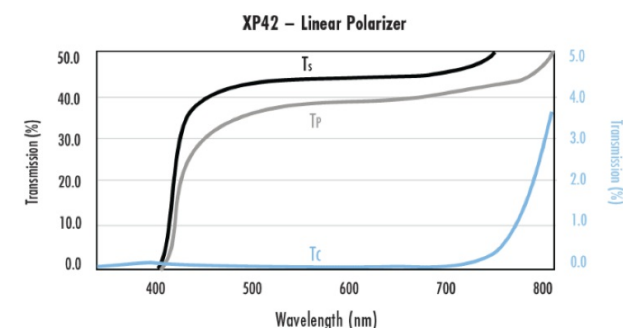
Ideal for a range of imaging applications, TECHSPEC® High Contrast Linear Polarizing Film (XP42) features an excellent extinction ratio and high transmission from 400 – 700nm. This polarizing film is offered in multiple thicknesses; thicker polarizing film has increased rigidity. Available in sheets,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

