

TECHSPEC<sup>®</sup> 40mm Dia.Linear Plastic Polarizer (XP42-200)



Stock **#85-921** [CONTACT US](#)

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+

C\$49<sup>.70</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | C\$49.70 each                 |
| Qty 6-49       | C\$39.62 each                 |
| Qty 50-99      | C\$37.38 each                 |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                          |                 |
|----------------------------------|-----------------|
| Linear Polarizer                 | Type:           |
| Physical & Mechanical Properties |                 |
| 40.00 +0.0/-0.3                  | Diameter (mm):  |
| 2.22 ±0.25                       | Thickness (mm): |

|                                               |                              |
|-----------------------------------------------|------------------------------|
| Polarizing Film on PMMA                       | Construction:                |
| Optical Properties                            |                              |
| 9000:1                                        | Extinction Ratio:            |
| XP42-200 on PMMA                              | Substrate: □                 |
| Single: 42<br>Parallel: 36<br>Crossed: <0.004 | Transmission (%):            |
| 400 - 700                                     | Wavelength Range (nm):       |
| >99.98                                        | Polarization Efficiency (%): |
| Environmental & Durability Factors            |                              |
| -40 to +80                                    | Operating Temperature (°C):  |
| Regulatory Compliance                         |                              |
| Compliant                                     | RoHS 2015:                   |
| View                                          | Certificate of Conformance:  |
| Compliant                                     | Reach 235:                   |

## Product Details

- Excellent Extinction Ratio of 9000:1
- Increased Durability through Lamination on PMMA
- High Transmission of Unpolarized Light from 400 – 700nm

TECHSPEC® High Contrast Plastic Linear Polarizers (XP42-200 & XP42-300) are ideal for a variety of imaging applications. Offered in multiple sizes, these linear polarizers feature an excellent extinction ratio and high transmission of unpolarized light from 400 – 700nm. The plastic substrate results in a lightweight polarizer, ideal for weight constrained applications. TECHSPEC® High Contrast Plastic Linear Polarizers (XP42-200 & XP42-300) offer increased durability compared to [polarizing film](#).

When unpolarized light enters a linear polarizer, the light that is polarized perpendicular to the polarization axis is absorbed, and light parallel to the polarization axis is transmitted. TECHSPEC® High Contrast Plastic Linear Polarizers (XP42-200) utilize a stretched PVA film to create the polarization axis. To increase durability, the film is then laminated between two plastic plates.

**Note:** These linear polarizers are not recommended for laser applications.

### Immediate Custom Quotes Available

If you have a need for any round, square, or rectangular size of a TECHSPEC High Contrast Plastic Linear Polarizers (XP42-200) 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

